

Publication Date: 28 MAY 2026

Effective Date: 09 JUL 2026

AIRAC
AIP AMDT

07
09 JUL 2026

AIRAC AIP AMENDMENT 07/26

I. Content

GEN - Sunrise/Sunset tables updated;

AD - LRCL - APRON 1 strength updated;

II. Insert the following new pages and/or charts:

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| III. | Amend RECORD OF AIP AMDT (GEN 0.2) accordingly. | |

END

GEN 0.3 RECORD OF AIP SUPPLEMENTS

| No/Year | Subject | AIP section(s) affected | Period of validity | Cancellation record |
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| AIRAC 02/18 | BUCUREȘTI/Henri Coandă Airport, SID/STAR suspended. | AD 2.5 | from: 16 AUG 2018 to: announced by NOTAM or SUP | |
| AIRAC 04/23 | SATU MARE / Satu Mare Airport Local Aerodrome Regulations | AD 2.12 | from: 23 FEB 2023 to: 10 JUN 2026 | AIRAC AIP AMDT 06/26 |
| AIRAC 03/24 | BUCUREȘTI FIR - Alexandru Odobescu wind farms under construction | ENR 5.4, AD 2.4, AD 2.5, AD 2.8 | from: 28 NOV 2024 to: 30 NOV 2026 EST | |
| AIRAC 04/24 | BUCUREȘTI FIR - Gurbănești wind farm under construction | ENR 5.4, AD 2.4, AD 2.5 | from: 28 NOV 2024 to: 30 NOV 2026 EST | |
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| AIRAC 09/24 | BUCUREȘTI FIR - Cerchezu wind farm under construction | ENR 5.4, ENR 6-2, AD 2.8 | from: 26 DEC 2024 to: 30 DEC 2026 EST | |
| 01/25 | CLUJ NAPOCA / Avram Iancu Airport, airport development charge. | GEN 4.1 | from: 20 FEB 2025 to: 31 DEC 2028 | |
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| AIRAC 10/25 | BUCUREȘTI FIR - Bărăganu Wind Farm under construction. | ENR 5.4, AD 2.8 | from: 10 JUL 2025 to: 31 MAY 2027 EST | |
| AIRAC 12/25 | BUCUREȘTI FIR - Cogealac Wind Farm under construction. | ENR 5.4, AD 2.8 | from: 10 JUL 2025 to: 30 JUN 2027 EST | |

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| AIRAC 01/26 | SATU MARE / Satu Mare, Aircraft Parking/Docking Chart - ICAO temporarily suspended. | AD 2.12 | from: 11 JUN 2026 to: announced by NOTAM or SUP | |
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| AIRAC 03/26 | BUCUREȘTI FIR - Smârdan Wind Farm under construction | ENR 5.4, AD 2-8 | from: 09 JUL 2026 to: 30 JUN 2028 EST | |

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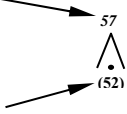
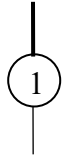


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| AD 2.10-91a | 31 OCT 2024 | AD 2.12-52 | 30 OCT 2025 | AD 2.14-7 | 11 JUN 2026 |
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| AD 2.11-3 | 04 SEP 2025 | AD 2.12-72c | 27 NOV 2025 | AD 2.14-29 | 23 JUN 2016 |
| AD 2.11-4 | 13 JUN 2024 | AD 2.12-81 | 30 OCT 2025 | AD 2.14-30 | 17 APR 2025 |
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| AD 2.11-7 | 16 APR 2026 | AD 2.12-82a | 30 OCT 2025 | AD 2.14-31a | 15 JUN 2023 |
| AD 2.11-8 | 23 JAN 2025 | AD 2.12-83 | 30 OCT 2025 | AD 2.14-51 | 11 JUN 2026 |
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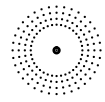



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| AD 2.14-81a | 15 JUN 2023 | AD 2.16-5 | 18 JUL 2019 | AD 2.17-21 | 03 OCT 2024 |
| AD 2.14-82 | 17 APR 2025 | AD 2.16-6 | 05 OCT 2023 | AD 2.17-22 | 03 OCT 2024 |
| AD 2.14-82a | 15 JUN 2023 | AD 2.16-7 | 07 AUG 2025 | AD 2.17-25 | 11 JUN 2026 |
| AD 2.14-83 | 17 APR 2025 | AD 2.16-8 | 10 JUL 2025 | AD 2.17-26 | 11 JUN 2026 |
| AD 2.14-83a | 15 JUN 2023 | AD 2.16-9 | 19 MAR 2026 | AD 2.17-30 | 11 JUN 2026 |
| AD 2.14-84 | 17 APR 2025 | AD 2.16-10 | 19 MAR 2026 | AD 2.17-30a | 11 JUN 2026 |
| AD 2.14-84a | 15 JUN 2023 | AD 2.16-11 | 07 AUG 2025 | AD 2.17-31 | 11 JUN 2026 |
| AD 2.15-1 | 11 JUN 2026 | AD 2.16-12 | 07 AUG 2025 | AD 2.17-31a | 11 JUN 2026 |
| AD 2.15-2 | 11 JUN 2026 | AD 2.16-13 | 07 AUG 2025 | AD 2.17-46 | 16 APR 2026 |
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| AD 2.15-4 | 31 OCT 2024 | AD 2.16-15 | 30 NOV 2023 | AD 2.17-51a | 11 JUN 2026 |
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| AD 2.15-7 | 10 JUL 2025 | AD 2.16-22 | 11 JUN 2026 | AD 2.17-71 | 09 JUL 2026 |
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4.Obstacole
Obstacles

| | | | |
|--|---|---|---|
| Obstacol (nebalizat /balizat) Obstacle (unlighted/lighted) |   | Arbore sau arbust Tree or shrub | ✕ |
| Grup de obstacole (nebalizat/balizat) Group obstacles (unlighted/lighted) |   | Cota maximă pe hartă Highest elevation on chart | 3387 • 3387 |
| Turbină eoliană (nebalizată/balizată) Wind turbine (unlighted/lighted) |   | Clădire sau construcție importantă Building or large structure |  |
| Grup de turbine eoliene (balizat) Wind turbines group (lighted) |  | Stâlp, turn, antenă, ș.a. Pole, tower, spire, antenna, etc. |  |
| Cota la vârf (cursiv) Elevation of top (italics) Înălțimea raportată la o referință specificată (caractere drepte între paranteze) Height above specified datum (upright type in parantheses) |  | Obstacol pe hărți de obstacolare a aerodromului (vedere profil) Obstacle on aerodrome obstacle charts (profile view) Număr de identificare Identification number |  |
| Teren care penetrează planul de obstacolare (vedere plană) Terrain penetrating obstacle plane (plan view) |  | Teren care penetrează planul de obstacolare (vedere profil) Terrain penetrating obstacle plane (profile) |  |

5.Mijloace de radionavigație
Radio navigation aids

| | | | |
|---|---|---|---|
| Mijloc de radionavigație Radio navigation aid |  | |  |
| | Vedere profil Profile view | | Vedere plan Plane view |
| Roză compas utilizată împreună cu unul din simbolurile: VOR, VOR/DME Compass rose used together with a VOR or VOR/DME symbol |  | Radiomarker Radio marker beacon |  |
| | | | Vedere profil Profile view |
| Radiofar omnidirecțional VHF VHF omnidirectional radio range - VOR |  | Radiofar nedirecțional NDB Non-directional beacon NDB |  |
| Echipament de măsurare a distanței DME Distance measuring equipment - DME |  | | |
| Mijloace de radionavigație VOR și DME colocate – VOR/DME Collocated VOR and DME radio navigation aids– VOR/DME |  | Simbol al mijlocului de radionavigație Basic radio navigation aid symbol |  |

| | | | |
|---|--|---|-----------|
| Distanța DME DME distance Distanța în mile nautice la DME Distance in nautical Identificatorul mijlocului de radionavigație Identification of radio navigation aid | | Sistem de aterizare instrumentală - ILS Instrument landing system - ILS | Plan view |
| | | | Profile |
| Izgonă Izogonic line or isogonal | | Radial VOR (relevment raportat la VOR și identificatorul VOR) VOR radial (Radial bearing from and identification of VOR) | |

6. Servicii de trafic aerian
Air traffic services

| | | | |
|---|--|--|--|
| Regiune de informare a zborului Flight information region FIR | | Scară întreruptă (pe rute ATS) Scale-break (on ATS route) | |
| Zonă de trafic de aerodrom Aerodrome traffic zone ATZ | | Punct de transfer VOR Change-over point COP | |
| Regiune de control / rută aeriană Control area / airway CTA / AWY | | Reperul apropierii finale Final Approach Fix | |
| Zonă cu serviciu consultativ Advisory airspace ADA | | | |
| Zonă de control de aerodrom Control zone CTR | | | |

| Reporting and Fly-by functionality | | |
|------------------------------------|------------------------|----------------------|
| | On request / la cerere | Compulsory / obligat |
| Intersection / Intersecție | | |
| VOR | | |
| VOR/DME | | |
| NDB | | |
| Waypoint / punct de navigație | | |

| Reporting and Flyover functionality | | |
|-------------------------------------|------------------------|----------------------|
| | On request / la cerere | Compulsory / obligat |
| Waypoint / punct de navigație | | |

**GEN 2.7 SUNRISE / SUNSET
RĂSĂRITUL / APUSUL SOARELUI**

1. The tables on the following pages have been realized using the mathematical model for astronomical data used in civil aviation created by the Astronomic Institute of the Romanian Academy Bucharest. The tables include 35 civil airports and 5 civil heliports.

1.1 The times in the tables are given in UTC for beginning of civil morning twilight (TWIL FROM), sunrise (SR) sunset (SS) and end of civil evening twilight (TWIL TO) for the period JULY 2026 - JUNE 2027.

1.2 Night means the hours between the end of evening civil twilight and the beginning of morning civil twilight. Civil twilight ends in the evening when the centre of the sun's disc is 6 degrees below the horizon and begins in the morning when the centre of the sun's disc is 6 degrees below the horizon.

1. Tabelele din următoarele pagini sunt alcătuite folosind modelul matematic de calcul al datelor astronomice utilizate în aviația civilă realizat de Institutul Astronomic al Academiei Române București. Tabelele includ 35 aeroporturi civile și 5 heliporturi civile.

1.1 Orele din tabele sunt date în UTC pentru ora civilă a crepusculului de dimineață (TWIL FROM), răsăritul Soarelui (SR), apusul Soarelui (SS) și ora civilă a crepusculului de seară (TWIL TO) pentru perioada IULIE 2026 - IUNIE 2027.

1.2 Noapte înseamnă perioada dintre sfârșitul crepusculului civil și începutul răsăritului civil. Crepusculul civil se încheie seara când centrul discului soarelui este cu 6 grade sub orizont, iar răsăritul civil începe dimineața când centrul discului soarelui este cu 6 grade sub orizont.

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3. Sunrise-Sunset tables
Tabele Rasaritului-Apusul Soarelui

ARAD / Arad - LRAR
461036N 0211543E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0209 | 0245 | 1832 | 1908 |
| 5 | 0211 | 0248 | 1830 | 1907 |
| 9 | 0215 | 0251 | 1829 | 1905 |
| 13 | 0219 | 0254 | 1826 | 1902 |
| 17 | 0223 | 0258 | 1823 | 1858 |
| 21 | 0228 | 0302 | 1820 | 1854 |
| 25 | 0233 | 0307 | 1815 | 1849 |
| 29 | 0238 | 0311 | 1811 | 1844 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0445 | 0515 | 1521 | 1551 |
| 6 | 0451 | 0521 | 1515 | 1545 |
| 10 | 0456 | 0527 | 1510 | 1540 |
| 14 | 0502 | 0532 | 1505 | 1536 |
| 18 | 0507 | 0538 | 1501 | 1532 |
| 22 | 0512 | 0543 | 1458 | 1529 |
| 26 | 0517 | 0549 | 1455 | 1527 |
| 30 | 0521 | 0553 | 1453 | 1525 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0442 | 0510 | 1623 | 1651 |
| 6 | 0435 | 0503 | 1628 | 1657 |
| 10 | 0427 | 0456 | 1634 | 1702 |
| 14 | 0420 | 0448 | 1640 | 1708 |
| 18 | 0412 | 0440 | 1645 | 1713 |
| 22 | 0404 | 0432 | 1650 | 1719 |
| 26 | 0356 | 0425 | 1656 | 1724 |
| 30 | 0348 | 0417 | 1701 | 1730 |

| | | | | |
|-------|------|------|------|------|
| AUG 2 | 0243 | 0316 | 1805 | 1838 |
| 6 | 0249 | 0321 | 1800 | 1832 |
| 10 | 0254 | 0326 | 1754 | 1826 |
| 14 | 0300 | 0331 | 1747 | 1819 |
| 18 | 0305 | 0336 | 1741 | 1812 |
| 22 | 0311 | 0341 | 1734 | 1804 |
| 26 | 0316 | 0346 | 1727 | 1757 |
| 30 | 0321 | 0351 | 1719 | 1749 |

| | | | | |
|-------|------|------|------|------|
| DEC 4 | 0526 | 0558 | 1451 | 1524 |
| 8 | 0530 | 0602 | 1450 | 1523 |
| 12 | 0533 | 0606 | 1450 | 1523 |
| 16 | 0536 | 0609 | 1451 | 1524 |
| 20 | 0539 | 0612 | 1452 | 1525 |
| 24 | 0541 | 0614 | 1454 | 1527 |
| 28 | 0542 | 0615 | 1457 | 1530 |

| | | | | |
|-------|------|------|------|------|
| APR 3 | 0340 | 0409 | 1706 | 1735 |
| 7 | 0332 | 0402 | 1712 | 1741 |
| 11 | 0325 | 0354 | 1717 | 1747 |
| 15 | 0317 | 0347 | 1722 | 1752 |
| 19 | 0309 | 0340 | 1728 | 1758 |
| 23 | 0302 | 0333 | 1733 | 1804 |
| 27 | 0255 | 0326 | 1738 | 1809 |

| | | | | |
|-------|------|------|------|------|
| SEP 3 | 0327 | 0356 | 1712 | 1741 |
| 7 | 0332 | 0401 | 1704 | 1733 |
| 11 | 0337 | 0406 | 1656 | 1725 |
| 15 | 0342 | 0411 | 1648 | 1717 |
| 19 | 0348 | 0416 | 1640 | 1709 |
| 23 | 0353 | 0421 | 1632 | 1701 |
| 27 | 0358 | 0426 | 1625 | 1653 |

| | | | | |
|-------|------|------|------|------|
| JAN 1 | 0543 | 0615 | 1501 | 1533 |
| 5 | 0542 | 0615 | 1504 | 1537 |
| 9 | 0542 | 0614 | 1509 | 1541 |
| 13 | 0540 | 0612 | 1514 | 1546 |
| 17 | 0538 | 0610 | 1519 | 1551 |
| 21 | 0536 | 0607 | 1524 | 1556 |
| 25 | 0532 | 0603 | 1530 | 1601 |
| 29 | 0529 | 0559 | 1536 | 1606 |

| | | | | |
|-------|------|------|------|------|
| MAY 1 | 0248 | 0320 | 1744 | 1815 |
| 5 | 0241 | 0313 | 1749 | 1821 |
| 9 | 0235 | 0308 | 1754 | 1827 |
| 13 | 0229 | 0303 | 1759 | 1832 |
| 17 | 0224 | 0258 | 1804 | 1838 |
| 21 | 0219 | 0254 | 1808 | 1843 |
| 25 | 0215 | 0250 | 1813 | 1848 |
| 29 | 0211 | 0247 | 1817 | 1852 |

| | | | | |
|-------|------|------|------|------|
| OCT 1 | 0403 | 0431 | 1617 | 1645 |
| 5 | 0408 | 0437 | 1609 | 1637 |
| 9 | 0414 | 0442 | 1602 | 1630 |
| 13 | 0419 | 0447 | 1554 | 1623 |
| 17 | 0424 | 0453 | 1547 | 1616 |
| 21 | 0429 | 0458 | 1540 | 1609 |
| 25 | 0435 | 0504 | 1533 | 1602 |
| 29 | 0440 | 0510 | 1527 | 1556 |

| | | | | |
|-------|------|------|------|------|
| FEB 2 | 0524 | 0555 | 1542 | 1612 |
| 6 | 0519 | 0549 | 1548 | 1618 |
| 10 | 0514 | 0544 | 1554 | 1623 |
| 14 | 0508 | 0538 | 1600 | 1629 |
| 18 | 0502 | 0531 | 1605 | 1635 |
| 22 | 0456 | 0525 | 1611 | 1640 |
| 26 | 0449 | 0518 | 1617 | 1646 |

| | | | | |
|-------|------|------|------|------|
| JUN 2 | 0208 | 0244 | 1821 | 1856 |
| 6 | 0206 | 0242 | 1824 | 1900 |
| 10 | 0205 | 0241 | 1827 | 1903 |
| 14 | 0204 | 0241 | 1829 | 1906 |
| 18 | 0204 | 0241 | 1831 | 1907 |
| 22 | 0204 | 0241 | 1832 | 1909 |
| 26 | 0206 | 0243 | 1832 | 1909 |
| 30 | 0208 | 0244 | 1832 | 1908 |

ARAD / Charlie-Bravo Siria - LRCB
461618N 0213622E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0207 | 0243 | 1831 | 1907 |
| 5 | 0210 | 0246 | 1829 | 1906 |
| 9 | 0213 | 0249 | 1828 | 1904 |
| 13 | 0217 | 0253 | 1825 | 1901 |
| 17 | 0221 | 0256 | 1822 | 1857 |
| 21 | 0226 | 0301 | 1819 | 1853 |
| 25 | 0231 | 0305 | 1814 | 1848 |
| 29 | 0236 | 0310 | 1810 | 1843 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0444 | 0514 | 1519 | 1549 |
| 6 | 0450 | 0520 | 1514 | 1544 |
| 10 | 0455 | 0526 | 1508 | 1539 |
| 14 | 0500 | 0531 | 1504 | 1535 |
| 18 | 0506 | 0537 | 1500 | 1531 |
| 22 | 0511 | 0542 | 1456 | 1528 |
| 26 | 0516 | 0547 | 1453 | 1525 |
| 30 | 0520 | 0552 | 1451 | 1523 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0441 | 0509 | 1621 | 1650 |
| 6 | 0433 | 0502 | 1627 | 1655 |
| 10 | 0426 | 0454 | 1633 | 1701 |
| 14 | 0418 | 0447 | 1638 | 1706 |
| 18 | 0410 | 0439 | 1644 | 1712 |
| 22 | 0403 | 0431 | 1649 | 1717 |
| 26 | 0355 | 0423 | 1654 | 1723 |
| 30 | 0347 | 0415 | 1700 | 1729 |

| | | | | |
|-------|------|------|------|------|
| AUG 2 | 0241 | 0314 | 1804 | 1837 |
| 6 | 0247 | 0319 | 1759 | 1831 |
| 10 | 0252 | 0324 | 1753 | 1825 |
| 14 | 0258 | 0329 | 1746 | 1818 |
| 18 | 0303 | 0334 | 1740 | 1810 |
| 22 | 0309 | 0339 | 1733 | 1803 |
| 26 | 0314 | 0344 | 1725 | 1755 |
| 30 | 0320 | 0349 | 1718 | 1748 |

| | | | | |
|-------|------|------|------|------|
| DEC 4 | 0525 | 0557 | 1449 | 1522 |
| 8 | 0529 | 0601 | 1449 | 1521 |
| 12 | 0532 | 0605 | 1449 | 1521 |
| 16 | 0535 | 0608 | 1449 | 1522 |
| 20 | 0538 | 0611 | 1451 | 1524 |
| 24 | 0540 | 0613 | 1453 | 1526 |
| 28 | 0541 | 0614 | 1455 | 1528 |

| | | | | |
|-------|------|------|------|------|
| APR 3 | 0339 | 0408 | 1705 | 1734 |
| 7 | 0331 | 0400 | 1711 | 1740 |
| 11 | 0323 | 0353 | 1716 | 1745 |
| 15 | 0315 | 0345 | 1721 | 1751 |
| 19 | 0308 | 0338 | 1727 | 1757 |
| 23 | 0300 | 0331 | 1732 | 1803 |
| 27 | 0253 | 0324 | 1737 | 1808 |

| | | | | |
|-------|------|------|------|------|
| SEP 3 | 0325 | 0355 | 1710 | 1740 |
| 7 | 0330 | 0400 | 1703 | 1732 |
| 11 | 0336 | 0405 | 1655 | 1724 |
| 15 | 0341 | 0410 | 1647 | 1716 |
| 19 | 0346 | 0415 | 1639 | 1708 |
| 23 | 0351 | 0420 | 1631 | 1700 |
| 27 | 0357 | 0425 | 1623 | 1652 |

| | | | | |
|-------|------|------|------|------|
| JAN 1 | 0541 | 0614 | 1459 | 1532 |
| 5 | 0541 | 0614 | 1503 | 1535 |
| 9 | 0541 | 0613 | 1507 | 1539 |
| 13 | 0539 | 0611 | 1512 | 1544 |
| 17 | 0537 | 0609 | 1517 | 1549 |
| 21 | 0535 | 0606 | 1523 | 1554 |
| 25 | 0531 | 0602 | 1528 | 1559 |
| 29 | 0527 | 0558 | 1534 | 1605 |

| | | | | |
|-------|------|------|------|------|
| MAY 1 | 0246 | 0318 | 1743 | 1814 |
| 5 | 0240 | 0312 | 1748 | 1820 |
| 9 | 0233 | 0306 | 1753 | 1826 |
| 13 | 0228 | 0301 | 1758 | 1831 |
| 17 | 0222 | 0256 | 1803 | 1837 |
| 21 | 0217 | 0252 | 1807 | 1842 |
| 25 | 0213 | 0248 | 1812 | 1847 |
| 29 | 0210 | 0245 | 1816 | 1851 |

| | | | | |
|-------|------|------|------|------|
| OCT 1 | 0402 | 0430 | 1615 | 1644 |
| 5 | 0407 | 0435 | 1608 | 1636 |
| 9 | 0412 | 0441 | 1600 | 1629 |
| 13 | 0417 | 0446 | 1553 | 1621 |
| 17 | 0423 | 0451 | 1545 | 1614 |
| 21 | 0428 | 0457 | 1538 | 1607 |
| 25 | 0433 | 0503 | 1532 | 1601 |
| 29 | 0439 | 0508 | 1525 | 1555 |

| | | | | |
|-------|------|------|------|------|
| FEB 2 | 0523 | 0553 | 1540 | 1610 |
| 6 | 0518 | 0548 | 1546 | 1616 |
| 10 | 0513 | 0542 | 1552 | 1622 |
| 14 | 0507 | 0536 | 1558 | 1627 |
| 18 | 0501 | 0530 | 1604 | 1633 |
| 22 | 0454 | 0523 | 1610 | 1639 |
| 26 | 0448 | 0516 | 1616 | 1644 |

| | | | | |
|-------|------|------|------|------|
| JUN 2 | 0207 | 0242 | 1820 | 1856 |
| 6 | 0204 | 0241 | 1823 | 1859 |
| 10 | 0203 | 0239 | 1826 | 1902 |
| 14 | 0202 | 0239 | 1828 | 1905 |
| 18 | 0202 | 0239 | 1830 | 1907 |
| 22 | 0202 | 0239 | 1831 | 1908 |
| 26 | 0204 | 0241 | 1831 | 1908 |
| 30 | 0206 | 0243 | 1831 | 1908 |



BACAU / George Enescu - LRBC
463119N 0265437E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0144 | 0221 | 1810 | 1847 |
| 5 | 0147 | 0224 | 1809 | 1846 |
| 9 | 0150 | 0227 | 1807 | 1844 |
| 13 | 0154 | 0230 | 1805 | 1841 |
| 17 | 0159 | 0234 | 1802 | 1837 |
| 21 | 0204 | 0238 | 1758 | 1833 |
| 25 | 0209 | 0243 | 1754 | 1828 |
| 29 | 0214 | 0248 | 1749 | 1823 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0423 | 0453 | 1458 | 1527 |
| 6 | 0429 | 0459 | 1452 | 1522 |
| 10 | 0434 | 0505 | 1447 | 1517 |
| 14 | 0440 | 0511 | 1442 | 1513 |
| 18 | 0445 | 0516 | 1438 | 1509 |
| 22 | 0450 | 0522 | 1434 | 1506 |
| 26 | 0455 | 0527 | 1431 | 1503 |
| 30 | 0500 | 0532 | 1429 | 1501 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0420 | 0448 | 1600 | 1629 |
| 6 | 0412 | 0441 | 1606 | 1634 |
| 10 | 0405 | 0433 | 1611 | 1640 |
| 14 | 0357 | 0425 | 1617 | 1645 |
| 18 | 0349 | 0418 | 1622 | 1651 |
| 22 | 0341 | 0410 | 1628 | 1656 |
| 26 | 0333 | 0402 | 1633 | 1702 |
| 30 | 0325 | 0354 | 1639 | 1708 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG 2 | 0219 | 0252 | 1744 | 1817 |
| 6 | 0225 | 0257 | 1738 | 1811 |
| 10 | 0230 | 0302 | 1732 | 1804 |
| 14 | 0236 | 0307 | 1726 | 1757 |
| 18 | 0241 | 0313 | 1719 | 1750 |
| 22 | 0247 | 0318 | 1712 | 1742 |
| 26 | 0253 | 0323 | 1705 | 1735 |
| 30 | 0258 | 0328 | 1657 | 1727 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC 4 | 0504 | 0537 | 1427 | 1500 |
| 8 | 0508 | 0541 | 1427 | 1459 |
| 12 | 0512 | 0545 | 1426 | 1459 |
| 16 | 0515 | 0548 | 1427 | 1500 |
| 20 | 0517 | 0550 | 1428 | 1502 |
| 24 | 0519 | 0552 | 1431 | 1504 |
| 28 | 0520 | 0553 | 1433 | 1506 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR 3 | 0317 | 0346 | 1644 | 1713 |
| 7 | 0309 | 0339 | 1650 | 1719 |
| 11 | 0301 | 0331 | 1655 | 1725 |
| 15 | 0254 | 0324 | 1700 | 1730 |
| 19 | 0246 | 0316 | 1706 | 1736 |
| 23 | 0238 | 0309 | 1711 | 1742 |
| 27 | 0231 | 0303 | 1717 | 1748 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP 3 | 0303 | 0333 | 1650 | 1719 |
| 7 | 0309 | 0338 | 1642 | 1711 |
| 11 | 0314 | 0343 | 1634 | 1703 |
| 15 | 0319 | 0348 | 1626 | 1655 |
| 19 | 0325 | 0353 | 1618 | 1647 |
| 23 | 0330 | 0359 | 1610 | 1638 |
| 27 | 0335 | 0404 | 1602 | 1630 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN 1 | 0521 | 0554 | 1437 | 1510 |
| 5 | 0521 | 0554 | 1441 | 1513 |
| 9 | 0520 | 0553 | 1445 | 1518 |
| 13 | 0519 | 0551 | 1450 | 1522 |
| 17 | 0517 | 0549 | 1455 | 1527 |
| 21 | 0514 | 0546 | 1501 | 1532 |
| 25 | 0511 | 0542 | 1506 | 1538 |
| 29 | 0507 | 0538 | 1512 | 1543 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY 1 | 0224 | 0256 | 1722 | 1754 |
| 5 | 0218 | 0250 | 1727 | 1800 |
| 9 | 0211 | 0244 | 1732 | 1805 |
| 13 | 0205 | 0239 | 1737 | 1811 |
| 17 | 0200 | 0234 | 1742 | 1817 |
| 21 | 0155 | 0230 | 1747 | 1822 |
| 25 | 0151 | 0226 | 1752 | 1827 |
| 29 | 0147 | 0223 | 1756 | 1831 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT 1 | 0340 | 0409 | 1554 | 1623 |
| 5 | 0346 | 0414 | 1546 | 1615 |
| 9 | 0351 | 0420 | 1539 | 1607 |
| 13 | 0356 | 0425 | 1531 | 1600 |
| 17 | 0402 | 0431 | 1524 | 1553 |
| 21 | 0407 | 0436 | 1517 | 1546 |
| 25 | 0412 | 0442 | 1510 | 1539 |
| 29 | 0418 | 0448 | 1504 | 1533 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB 2 | 0502 | 0533 | 1518 | 1549 |
| 6 | 0457 | 0528 | 1524 | 1554 |
| 10 | 0452 | 0522 | 1530 | 1600 |
| 14 | 0446 | 0516 | 1536 | 1606 |
| 18 | 0440 | 0509 | 1542 | 1612 |
| 22 | 0433 | 0502 | 1548 | 1617 |
| 26 | 0427 | 0455 | 1554 | 1623 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN 2 | 0144 | 0220 | 1759 | 1836 |
| 6 | 0142 | 0218 | 1803 | 1839 |
| 10 | 0140 | 0217 | 1806 | 1842 |
| 14 | 0139 | 0216 | 1808 | 1845 |
| 18 | 0139 | 0216 | 1809 | 1847 |
| 22 | 0140 | 0217 | 1811 | 1848 |
| 26 | 0141 | 0218 | 1811 | 1848 |
| 30 | 0143 | 0220 | 1811 | 1848 |

BAIA MARE / Maramures - LRBM
473930N 0232758E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0151 | 0230 | 1829 | 1908 |
| 5 | 0154 | 0233 | 1828 | 1906 |
| 9 | 0158 | 0236 | 1826 | 1904 |
| 13 | 0202 | 0240 | 1823 | 1901 |
| 17 | 0207 | 0244 | 1820 | 1857 |
| 21 | 0212 | 0248 | 1816 | 1852 |
| 25 | 0217 | 0253 | 1812 | 1847 |
| 29 | 0223 | 0258 | 1807 | 1842 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0439 | 0510 | 1509 | 1539 |
| 6 | 0445 | 0516 | 1503 | 1534 |
| 10 | 0450 | 0522 | 1457 | 1529 |
| 14 | 0456 | 0528 | 1452 | 1524 |
| 18 | 0501 | 0534 | 1448 | 1520 |
| 22 | 0507 | 0539 | 1444 | 1517 |
| 26 | 0512 | 0545 | 1441 | 1514 |
| 30 | 0517 | 0550 | 1439 | 1512 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0434 | 0503 | 1613 | 1642 |
| 6 | 0426 | 0455 | 1619 | 1648 |
| 10 | 0418 | 0447 | 1624 | 1654 |
| 14 | 0410 | 0439 | 1630 | 1659 |
| 18 | 0402 | 0431 | 1636 | 1705 |
| 22 | 0354 | 0423 | 1642 | 1711 |
| 26 | 0346 | 0415 | 1648 | 1717 |
| 30 | 0338 | 0407 | 1653 | 1723 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG 2 | 0228 | 0303 | 1801 | 1835 |
| 6 | 0234 | 0308 | 1755 | 1829 |
| 10 | 0240 | 0313 | 1749 | 1822 |
| 14 | 0246 | 0318 | 1742 | 1815 |
| 18 | 0252 | 0324 | 1735 | 1807 |
| 22 | 0258 | 0329 | 1728 | 1759 |
| 26 | 0304 | 0335 | 1720 | 1751 |
| 30 | 0309 | 0340 | 1713 | 1743 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC 4 | 0521 | 0555 | 1437 | 1510 |
| 8 | 0525 | 0559 | 1436 | 1510 |
| 12 | 0529 | 0603 | 1436 | 1510 |
| 16 | 0532 | 0606 | 1436 | 1510 |
| 20 | 0535 | 0609 | 1438 | 1512 |
| 24 | 0536 | 0611 | 1440 | 1514 |
| 28 | 0538 | 0612 | 1443 | 1517 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR 3 | 0329 | 0359 | 1659 | 1729 |
| 7 | 0321 | 0351 | 1705 | 1735 |
| 11 | 0313 | 0343 | 1710 | 1741 |
| 15 | 0305 | 0335 | 1716 | 1747 |
| 19 | 0257 | 0328 | 1722 | 1753 |
| 23 | 0249 | 0321 | 1727 | 1759 |
| 27 | 0241 | 0314 | 1733 | 1805 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP 3 | 0315 | 0345 | 1705 | 1735 |
| 7 | 0321 | 0351 | 1657 | 1727 |
| 11 | 0326 | 0356 | 1649 | 1718 |
| 15 | 0332 | 0401 | 1640 | 1710 |
| 19 | 0338 | 0407 | 1632 | 1701 |
| 23 | 0343 | 0412 | 1624 | 1653 |
| 27 | 0349 | 0418 | 1616 | 1645 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN 1 | 0538 | 0612 | 1446 | 1520 |
| 5 | 0538 | 0612 | 1450 | 1524 |
| 9 | 0537 | 0611 | 1455 | 1528 |
| 13 | 0536 | 0609 | 1500 | 1533 |
| 17 | 0533 | 0606 | 1505 | 1538 |
| 21 | 0531 | 0603 | 1511 | 1543 |
| 25 | 0527 | 0559 | 1517 | 1549 |
| 29 | 0523 | 0555 | 1523 | 1554 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY 1 | 0234 | 0307 | 1739 | 1811 |
| 5 | 0227 | 0301 | 1744 | 1818 |
| 9 | 0221 | 0255 | 1750 | 1824 |
| 13 | 0214 | 0249 | 1755 | 1830 |
| 17 | 0209 | 0244 | 1800 | 1835 |
| 21 | 0204 | 0239 | 1805 | 1841 |
| 25 | 0159 | 0235 | 1810 | 1846 |
| 29 | 0155 | 0232 | 1814 | 1851 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT 1 | 0354 | 0423 | 1607 | 1637 |
| 5 | 0400 | 0429 | 1559 | 1629 |
| 9 | 0405 | 0434 | 1551 | 1621 |
| 13 | 0411 | 0440 | 1544 | 1613 |
| 17 | 0416 | 0446 | 1536 | 1606 |
| 21 | 0422 | 0452 | 1529 | 1559 |
| 25 | 0428 | 0458 | 1522 | 1552 |
| 29 | 0433 | 0504 | 1515 | 1545 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB 2 | 0518 | 0550 | 1529 | 1600 |
| 6 | 0513 | 0544 | 1535 | 1606 |
| 10 | 0508 | 0538 | 1542 | 1612 |
| 14 | 0501 | 0532 | 1548 | 1618 |
| 18 | 0455 | 0525 | 1554 | 1624 |
| 22 | 0448 | 0518 | 1600 | 1630 |
| 26 | 0441 | 0511 | 1606 | 1636 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN 2 | 0152 | 0229 | 1818 | 1855 |
| 6 | 0149 | 0227 | 1821 | 1859 |
| 10 | 0147 | 0226 | 1824 | 1903 |
| 14 | 0147 | 0225 | 1827 | 1905 |
| 18 | 0146 | 0225 | 1828 | 1907 |
| 22 | 0147 | 0226 | 1829 | 1908 |
| 26 | 0148 | 0227 | 1830 | 1909 |
| 30 | 0151 | 0229 | 1829 | 1908 |



BISTRITA / Bistrita - LRBN
470930N 0243306E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0150 | 0228 | 1823 | 1900 |
| 5 | 0153 | 0230 | 1821 | 1859 |
| 9 | 0157 | 0234 | 1820 | 1857 |
| 13 | 0201 | 0237 | 1817 | 1854 |
| 17 | 0205 | 0241 | 1814 | 1850 |
| 21 | 0210 | 0246 | 1810 | 1845 |
| 25 | 0215 | 0250 | 1806 | 1841 |
| 29 | 0221 | 0255 | 1801 | 1835 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0434 | 0504 | 1506 | 1536 |
| 6 | 0439 | 0510 | 1500 | 1530 |
| 10 | 0445 | 0516 | 1454 | 1525 |
| 14 | 0451 | 0522 | 1450 | 1521 |
| 18 | 0456 | 0528 | 1445 | 1517 |
| 22 | 0501 | 0533 | 1442 | 1514 |
| 26 | 0506 | 0539 | 1438 | 1511 |
| 30 | 0511 | 0544 | 1436 | 1509 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0429 | 0458 | 1609 | 1638 |
| 6 | 0422 | 0451 | 1615 | 1643 |
| 10 | 0414 | 0443 | 1620 | 1649 |
| 14 | 0406 | 0435 | 1626 | 1655 |
| 18 | 0358 | 0427 | 1632 | 1701 |
| 22 | 0350 | 0419 | 1637 | 1706 |
| 26 | 0342 | 0411 | 1643 | 1712 |
| 30 | 0334 | 0403 | 1649 | 1718 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG 2 | 0226 | 0300 | 1755 | 1829 |
| 6 | 0232 | 0305 | 1750 | 1823 |
| 10 | 0238 | 0310 | 1743 | 1816 |
| 14 | 0243 | 0315 | 1737 | 1809 |
| 18 | 0249 | 0321 | 1730 | 1801 |
| 22 | 0255 | 0326 | 1723 | 1754 |
| 26 | 0301 | 0331 | 1715 | 1746 |
| 30 | 0306 | 0336 | 1708 | 1738 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC 4 | 0515 | 0548 | 1434 | 1508 |
| 8 | 0519 | 0553 | 1434 | 1507 |
| 12 | 0523 | 0557 | 1433 | 1507 |
| 16 | 0526 | 0600 | 1434 | 1508 |
| 20 | 0529 | 0602 | 1435 | 1509 |
| 24 | 0530 | 0604 | 1437 | 1511 |
| 28 | 0532 | 0605 | 1440 | 1514 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR 3 | 0326 | 0355 | 1654 | 1724 |
| 7 | 0318 | 0347 | 1700 | 1729 |
| 11 | 0309 | 0340 | 1705 | 1735 |
| 15 | 0302 | 0332 | 1711 | 1741 |
| 19 | 0254 | 0325 | 1716 | 1747 |
| 23 | 0246 | 0317 | 1722 | 1753 |
| 27 | 0239 | 0310 | 1728 | 1759 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP 3 | 0312 | 0342 | 1700 | 1730 |
| 7 | 0317 | 0347 | 1652 | 1721 |
| 11 | 0323 | 0352 | 1644 | 1713 |
| 15 | 0328 | 0357 | 1636 | 1705 |
| 19 | 0334 | 0403 | 1628 | 1657 |
| 23 | 0339 | 0408 | 1619 | 1648 |
| 27 | 0344 | 0413 | 1611 | 1640 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN 1 | 0532 | 0606 | 1444 | 1517 |
| 5 | 0532 | 0605 | 1448 | 1521 |
| 9 | 0531 | 0604 | 1452 | 1525 |
| 13 | 0530 | 0603 | 1457 | 1530 |
| 17 | 0528 | 0600 | 1502 | 1535 |
| 21 | 0525 | 0557 | 1508 | 1540 |
| 25 | 0522 | 0553 | 1514 | 1546 |
| 29 | 0518 | 0549 | 1520 | 1551 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY 1 | 0232 | 0304 | 1733 | 1805 |
| 5 | 0225 | 0258 | 1738 | 1811 |
| 9 | 0218 | 0252 | 1744 | 1817 |
| 13 | 0212 | 0246 | 1749 | 1823 |
| 17 | 0207 | 0241 | 1754 | 1829 |
| 21 | 0202 | 0237 | 1759 | 1834 |
| 25 | 0157 | 0233 | 1803 | 1839 |
| 29 | 0153 | 0230 | 1808 | 1844 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT 1 | 0350 | 0419 | 1603 | 1632 |
| 5 | 0355 | 0424 | 1555 | 1624 |
| 9 | 0401 | 0430 | 1548 | 1617 |
| 13 | 0406 | 0435 | 1540 | 1609 |
| 17 | 0412 | 0441 | 1532 | 1602 |
| 21 | 0417 | 0447 | 1525 | 1555 |
| 25 | 0423 | 0452 | 1518 | 1548 |
| 29 | 0428 | 0458 | 1512 | 1542 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB 2 | 0513 | 0544 | 1526 | 1557 |
| 6 | 0508 | 0538 | 1532 | 1603 |
| 10 | 0502 | 0533 | 1538 | 1609 |
| 14 | 0456 | 0526 | 1545 | 1614 |
| 18 | 0450 | 0520 | 1551 | 1620 |
| 22 | 0443 | 0513 | 1557 | 1626 |
| 26 | 0436 | 0506 | 1603 | 1632 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN 2 | 0150 | 0227 | 1811 | 1848 |
| 6 | 0148 | 0225 | 1815 | 1852 |
| 10 | 0146 | 0224 | 1818 | 1855 |
| 14 | 0145 | 0223 | 1820 | 1858 |
| 18 | 0145 | 0223 | 1822 | 1900 |
| 22 | 0146 | 0224 | 1823 | 1901 |
| 26 | 0147 | 0225 | 1823 | 1901 |
| 30 | 0149 | 0227 | 1823 | 1901 |

BRASOV / Brasov-Ghimbav - LRBV
454222N 0253124E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0154 | 0230 | 1813 | 1849 |
| 5 | 0157 | 0233 | 1811 | 1847 |
| 9 | 0200 | 0236 | 1810 | 1845 |
| 13 | 0204 | 0239 | 1807 | 1842 |
| 17 | 0208 | 0243 | 1804 | 1839 |
| 21 | 0213 | 0247 | 1801 | 1835 |
| 25 | 0218 | 0251 | 1757 | 1830 |
| 29 | 0223 | 0256 | 1752 | 1825 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0428 | 0457 | 1505 | 1534 |
| 6 | 0433 | 0503 | 1459 | 1529 |
| 10 | 0438 | 0508 | 1454 | 1524 |
| 14 | 0444 | 0514 | 1450 | 1520 |
| 18 | 0449 | 0519 | 1446 | 1516 |
| 22 | 0454 | 0525 | 1442 | 1513 |
| 26 | 0458 | 0530 | 1439 | 1511 |
| 30 | 0503 | 0535 | 1437 | 1509 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0425 | 0453 | 1606 | 1634 |
| 6 | 0418 | 0446 | 1612 | 1640 |
| 10 | 0410 | 0438 | 1617 | 1645 |
| 14 | 0403 | 0431 | 1623 | 1651 |
| 18 | 0355 | 0423 | 1628 | 1656 |
| 22 | 0347 | 0415 | 1633 | 1701 |
| 26 | 0340 | 0408 | 1638 | 1707 |
| 30 | 0332 | 0400 | 1644 | 1712 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG 2 | 0228 | 0300 | 1747 | 1820 |
| 6 | 0233 | 0305 | 1742 | 1813 |
| 10 | 0239 | 0310 | 1736 | 1807 |
| 14 | 0244 | 0315 | 1729 | 1800 |
| 18 | 0249 | 0320 | 1723 | 1753 |
| 22 | 0255 | 0325 | 1716 | 1746 |
| 26 | 0300 | 0330 | 1709 | 1738 |
| 30 | 0305 | 0335 | 1702 | 1731 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC 4 | 0507 | 0539 | 1436 | 1508 |
| 8 | 0511 | 0543 | 1435 | 1507 |
| 12 | 0515 | 0547 | 1435 | 1507 |
| 16 | 0518 | 0550 | 1436 | 1508 |
| 20 | 0520 | 0553 | 1437 | 1510 |
| 24 | 0522 | 0555 | 1439 | 1512 |
| 28 | 0523 | 0556 | 1442 | 1514 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR 3 | 0324 | 0353 | 1649 | 1718 |
| 7 | 0316 | 0345 | 1654 | 1723 |
| 11 | 0308 | 0338 | 1659 | 1729 |
| 15 | 0301 | 0330 | 1705 | 1734 |
| 19 | 0253 | 0323 | 1710 | 1740 |
| 23 | 0246 | 0316 | 1715 | 1745 |
| 27 | 0239 | 0310 | 1720 | 1751 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP 3 | 0311 | 0340 | 1654 | 1723 |
| 7 | 0316 | 0344 | 1646 | 1715 |
| 11 | 0321 | 0349 | 1639 | 1707 |
| 15 | 0326 | 0354 | 1631 | 1659 |
| 19 | 0331 | 0359 | 1623 | 1651 |
| 23 | 0336 | 0404 | 1615 | 1644 |
| 27 | 0341 | 0409 | 1608 | 1636 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN 1 | 0524 | 0556 | 1445 | 1518 |
| 5 | 0524 | 0556 | 1449 | 1521 |
| 9 | 0523 | 0555 | 1453 | 1525 |
| 13 | 0522 | 0554 | 1458 | 1530 |
| 17 | 0520 | 0551 | 1503 | 1535 |
| 21 | 0518 | 0549 | 1509 | 1540 |
| 25 | 0514 | 0545 | 1514 | 1545 |
| 29 | 0511 | 0541 | 1520 | 1550 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY 1 | 0232 | 0304 | 1725 | 1757 |
| 5 | 0226 | 0258 | 1731 | 1802 |
| 9 | 0220 | 0252 | 1736 | 1808 |
| 13 | 0214 | 0247 | 1741 | 1813 |
| 17 | 0209 | 0242 | 1745 | 1819 |
| 21 | 0204 | 0238 | 1750 | 1824 |
| 25 | 0200 | 0235 | 1754 | 1829 |
| 29 | 0157 | 0232 | 1758 | 1833 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT 1 | 0346 | 0414 | 1600 | 1628 |
| 5 | 0351 | 0419 | 1552 | 1620 |
| 9 | 0356 | 0425 | 1545 | 1613 |
| 13 | 0401 | 0430 | 1538 | 1606 |
| 17 | 0407 | 0435 | 1530 | 1559 |
| 21 | 0412 | 0441 | 1524 | 1552 |
| 25 | 0417 | 0446 | 1517 | 1546 |
| 29 | 0422 | 0452 | 1511 | 1540 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB 2 | 0506 | 0536 | 1526 | 1556 |
| 6 | 0502 | 0531 | 1532 | 1601 |
| 10 | 0456 | 0526 | 1538 | 1607 |
| 14 | 0451 | 0520 | 1543 | 1612 |
| 18 | 0445 | 0513 | 1549 | 1618 |
| 22 | 0438 | 0507 | 1555 | 1623 |
| 26 | 0432 | 0500 | 1601 | 1629 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN 2 | 0154 | 0229 | 1802 | 1837 |
| 6 | 0151 | 0227 | 1805 | 1841 |
| 10 | 0150 | 0226 | 1808 | 1844 |
| 14 | 0149 | 0225 | 1810 | 1846 |
| 18 | 0149 | 0225 | 1812 | 1848 |
| 22 | 0150 | 0226 | 1813 | 1849 |
| 26 | 0151 | 0227 | 1813 | 1849 |
| 30 | 0153 | 0229 | 1813 | 1849 |



BRASOV / Corona - LRCR
454051N 0254442E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0153 | 0229 | 1812 | 1848 |
| 5 | 0156 | 0232 | 1811 | 1846 |
| 9 | 0159 | 0235 | 1809 | 1844 |
| 13 | 0203 | 0238 | 1806 | 1841 |
| 17 | 0207 | 0242 | 1803 | 1838 |
| 21 | 0212 | 0246 | 1800 | 1834 |
| 25 | 0217 | 0250 | 1756 | 1829 |
| 29 | 0222 | 0255 | 1751 | 1824 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0427 | 0456 | 1504 | 1533 |
| 6 | 0432 | 0502 | 1458 | 1528 |
| 10 | 0437 | 0507 | 1453 | 1524 |
| 14 | 0443 | 0513 | 1449 | 1519 |
| 18 | 0448 | 0518 | 1445 | 1516 |
| 22 | 0453 | 0524 | 1441 | 1513 |
| 26 | 0458 | 0529 | 1439 | 1510 |
| 30 | 0502 | 0534 | 1436 | 1508 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0424 | 0452 | 1605 | 1634 |
| 6 | 0417 | 0445 | 1611 | 1639 |
| 10 | 0409 | 0437 | 1616 | 1644 |
| 14 | 0402 | 0430 | 1622 | 1650 |
| 18 | 0354 | 0422 | 1627 | 1655 |
| 22 | 0346 | 0415 | 1632 | 1700 |
| 26 | 0339 | 0407 | 1638 | 1706 |
| 30 | 0331 | 0359 | 1643 | 1711 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG 2 | 0227 | 0300 | 1746 | 1819 |
| 6 | 0232 | 0304 | 1741 | 1813 |
| 10 | 0238 | 0309 | 1735 | 1806 |
| 14 | 0243 | 0314 | 1728 | 1759 |
| 18 | 0249 | 0319 | 1722 | 1752 |
| 22 | 0254 | 0324 | 1715 | 1745 |
| 26 | 0259 | 0329 | 1708 | 1738 |
| 30 | 0304 | 0334 | 1701 | 1730 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC 4 | 0506 | 0538 | 1435 | 1507 |
| 8 | 0510 | 0542 | 1434 | 1506 |
| 12 | 0514 | 0546 | 1434 | 1507 |
| 16 | 0517 | 0549 | 1435 | 1507 |
| 20 | 0519 | 0552 | 1436 | 1509 |
| 24 | 0521 | 0554 | 1438 | 1511 |
| 28 | 0522 | 0555 | 1441 | 1514 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR 3 | 0323 | 0352 | 1648 | 1717 |
| 7 | 0315 | 0344 | 1653 | 1722 |
| 11 | 0308 | 0337 | 1659 | 1728 |
| 15 | 0300 | 0330 | 1704 | 1733 |
| 19 | 0253 | 0322 | 1709 | 1739 |
| 23 | 0245 | 0316 | 1714 | 1744 |
| 27 | 0238 | 0309 | 1719 | 1750 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP 3 | 0310 | 0339 | 1653 | 1722 |
| 7 | 0315 | 0344 | 1646 | 1714 |
| 11 | 0320 | 0348 | 1638 | 1706 |
| 15 | 0325 | 0353 | 1630 | 1658 |
| 19 | 0330 | 0358 | 1622 | 1651 |
| 23 | 0335 | 0403 | 1615 | 1643 |
| 27 | 0340 | 0408 | 1607 | 1635 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN 1 | 0523 | 0555 | 1444 | 1517 |
| 5 | 0523 | 0555 | 1448 | 1520 |
| 9 | 0522 | 0554 | 1453 | 1525 |
| 13 | 0521 | 0553 | 1457 | 1529 |
| 17 | 0519 | 0550 | 1503 | 1534 |
| 21 | 0517 | 0548 | 1508 | 1539 |
| 25 | 0513 | 0544 | 1513 | 1544 |
| 29 | 0510 | 0540 | 1519 | 1549 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY 1 | 0232 | 0303 | 1725 | 1756 |
| 5 | 0225 | 0257 | 1730 | 1801 |
| 9 | 0219 | 0251 | 1735 | 1807 |
| 13 | 0213 | 0246 | 1740 | 1812 |
| 17 | 0208 | 0242 | 1744 | 1818 |
| 21 | 0204 | 0237 | 1749 | 1823 |
| 25 | 0159 | 0234 | 1753 | 1828 |
| 29 | 0156 | 0231 | 1757 | 1832 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT 1 | 0345 | 0413 | 1559 | 1627 |
| 5 | 0350 | 0418 | 1551 | 1620 |
| 9 | 0355 | 0424 | 1544 | 1612 |
| 13 | 0401 | 0429 | 1537 | 1605 |
| 17 | 0406 | 0434 | 1530 | 1558 |
| 21 | 0411 | 0440 | 1523 | 1551 |
| 25 | 0416 | 0445 | 1516 | 1545 |
| 29 | 0421 | 0451 | 1510 | 1539 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB 2 | 0505 | 0535 | 1525 | 1555 |
| 6 | 0501 | 0530 | 1531 | 1600 |
| 10 | 0455 | 0525 | 1537 | 1606 |
| 14 | 0450 | 0519 | 1543 | 1612 |
| 18 | 0444 | 0513 | 1548 | 1617 |
| 22 | 0437 | 0506 | 1554 | 1623 |
| 26 | 0431 | 0459 | 1600 | 1628 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN 2 | 0153 | 0228 | 1801 | 1836 |
| 6 | 0151 | 0226 | 1804 | 1840 |
| 10 | 0149 | 0225 | 1807 | 1843 |
| 14 | 0148 | 0225 | 1809 | 1845 |
| 18 | 0148 | 0225 | 1811 | 1847 |
| 22 | 0149 | 0225 | 1812 | 1848 |
| 26 | 0150 | 0227 | 1812 | 1848 |
| 30 | 0152 | 0229 | 1812 | 1848 |

BRASOV / Sanpetru - LRSP
454316N 0253801E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0153 | 0230 | 1812 | 1848 |
| 5 | 0156 | 0232 | 1811 | 1847 |
| 9 | 0200 | 0235 | 1809 | 1845 |
| 13 | 0203 | 0239 | 1807 | 1842 |
| 17 | 0208 | 0242 | 1804 | 1839 |
| 21 | 0212 | 0246 | 1800 | 1835 |
| 25 | 0217 | 0251 | 1756 | 1830 |
| 29 | 0222 | 0255 | 1752 | 1825 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0427 | 0457 | 1504 | 1534 |
| 6 | 0433 | 0502 | 1459 | 1529 |
| 10 | 0438 | 0508 | 1454 | 1524 |
| 14 | 0443 | 0514 | 1449 | 1520 |
| 18 | 0448 | 0519 | 1445 | 1516 |
| 22 | 0453 | 0524 | 1442 | 1513 |
| 26 | 0458 | 0530 | 1439 | 1510 |
| 30 | 0503 | 0534 | 1437 | 1509 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0424 | 0453 | 1606 | 1634 |
| 6 | 0417 | 0445 | 1611 | 1639 |
| 10 | 0410 | 0438 | 1617 | 1645 |
| 14 | 0402 | 0430 | 1622 | 1650 |
| 18 | 0355 | 0423 | 1627 | 1656 |
| 22 | 0347 | 0415 | 1633 | 1701 |
| 26 | 0339 | 0407 | 1638 | 1706 |
| 30 | 0331 | 0400 | 1643 | 1712 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG 2 | 0227 | 0300 | 1747 | 1819 |
| 6 | 0233 | 0305 | 1741 | 1813 |
| 10 | 0238 | 0309 | 1735 | 1807 |
| 14 | 0243 | 0314 | 1729 | 1800 |
| 18 | 0249 | 0319 | 1722 | 1753 |
| 22 | 0254 | 0324 | 1715 | 1746 |
| 26 | 0300 | 0329 | 1708 | 1738 |
| 30 | 0305 | 0334 | 1701 | 1730 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC 4 | 0507 | 0539 | 1435 | 1507 |
| 8 | 0511 | 0543 | 1435 | 1507 |
| 12 | 0514 | 0547 | 1435 | 1507 |
| 16 | 0517 | 0550 | 1435 | 1508 |
| 20 | 0520 | 0552 | 1437 | 1509 |
| 24 | 0522 | 0554 | 1439 | 1511 |
| 28 | 0523 | 0556 | 1441 | 1514 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR 3 | 0323 | 0352 | 1649 | 1717 |
| 7 | 0316 | 0345 | 1654 | 1723 |
| 11 | 0308 | 0337 | 1659 | 1728 |
| 15 | 0300 | 0330 | 1704 | 1734 |
| 19 | 0253 | 0323 | 1709 | 1739 |
| 23 | 0246 | 0316 | 1715 | 1745 |
| 27 | 0239 | 0309 | 1720 | 1751 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP 3 | 0310 | 0339 | 1654 | 1723 |
| 7 | 0315 | 0344 | 1646 | 1715 |
| 11 | 0320 | 0349 | 1638 | 1707 |
| 15 | 0325 | 0354 | 1631 | 1659 |
| 19 | 0331 | 0359 | 1623 | 1651 |
| 23 | 0336 | 0404 | 1615 | 1643 |
| 27 | 0341 | 0409 | 1607 | 1635 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN 1 | 0524 | 0556 | 1445 | 1517 |
| 5 | 0524 | 0556 | 1449 | 1521 |
| 9 | 0523 | 0555 | 1453 | 1525 |
| 13 | 0522 | 0553 | 1458 | 1529 |
| 17 | 0520 | 0551 | 1503 | 1534 |
| 21 | 0517 | 0548 | 1508 | 1539 |
| 25 | 0514 | 0545 | 1514 | 1544 |
| 29 | 0510 | 0541 | 1519 | 1550 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY 1 | 0232 | 0303 | 1725 | 1756 |
| 5 | 0225 | 0257 | 1730 | 1802 |
| 9 | 0219 | 0252 | 1735 | 1807 |
| 13 | 0214 | 0247 | 1740 | 1813 |
| 17 | 0209 | 0242 | 1745 | 1818 |
| 21 | 0204 | 0238 | 1749 | 1823 |
| 25 | 0200 | 0234 | 1754 | 1828 |
| 29 | 0156 | 0231 | 1758 | 1833 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT 1 | 0346 | 0414 | 1559 | 1628 |
| 5 | 0351 | 0419 | 1552 | 1620 |
| 9 | 0356 | 0424 | 1544 | 1613 |
| 13 | 0401 | 0429 | 1537 | 1605 |
| 17 | 0406 | 0435 | 1530 | 1558 |
| 21 | 0411 | 0440 | 1523 | 1552 |
| 25 | 0417 | 0446 | 1517 | 1545 |
| 29 | 0422 | 0451 | 1510 | 1539 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB 2 | 0506 | 0536 | 1525 | 1555 |
| 6 | 0501 | 0531 | 1531 | 1601 |
| 10 | 0456 | 0525 | 1537 | 1606 |
| 14 | 0450 | 0519 | 1543 | 1612 |
| 18 | 0444 | 0513 | 1549 | 1618 |
| 22 | 0438 | 0506 | 1554 | 1623 |
| 26 | 0431 | 0500 | 1600 | 1629 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN 2 | 0153 | 0229 | 1801 | 1837 |
| 6 | 0151 | 0227 | 1805 | 1840 |
| 10 | 0149 | 0225 | 1807 | 1843 |
| 14 | 0149 | 0225 | 1810 | 1846 |
| 18 | 0149 | 0225 | 1811 | 1848 |
| 22 | 0149 | 0226 | 1812 | 1849 |
| 26 | 0151 | 0227 | 1813 | 1849 |
| 30 | 0153 | 0229 | 1812 | 1849 |



BUCURESTI / Baneasa - Aurel Vlaicu - LRBS
443013N 0260613E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0158 | 0232 | 1805 | 1840 |
| 5 | 0200 | 0235 | 1804 | 1839 |
| 9 | 0204 | 0238 | 1803 | 1837 |
| 13 | 0207 | 0241 | 1801 | 1835 |
| 17 | 0211 | 0245 | 1758 | 1831 |
| 21 | 0216 | 0249 | 1754 | 1827 |
| 25 | 0220 | 0253 | 1751 | 1823 |
| 29 | 0225 | 0257 | 1746 | 1818 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0424 | 0452 | 1505 | 1534 |
| 6 | 0429 | 0458 | 1500 | 1529 |
| 10 | 0434 | 0503 | 1455 | 1524 |
| 14 | 0439 | 0508 | 1451 | 1520 |
| 18 | 0444 | 0514 | 1447 | 1517 |
| 22 | 0448 | 0519 | 1444 | 1514 |
| 26 | 0453 | 0524 | 1441 | 1512 |
| 30 | 0458 | 0528 | 1439 | 1510 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0422 | 0450 | 1605 | 1633 |
| 6 | 0415 | 0443 | 1610 | 1638 |
| 10 | 0408 | 0435 | 1615 | 1643 |
| 14 | 0401 | 0428 | 1621 | 1648 |
| 18 | 0353 | 0421 | 1626 | 1653 |
| 22 | 0346 | 0413 | 1631 | 1658 |
| 26 | 0338 | 0406 | 1636 | 1703 |
| 30 | 0331 | 0359 | 1641 | 1708 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG 2 | 0230 | 0301 | 1741 | 1813 |
| 6 | 0235 | 0306 | 1736 | 1807 |
| 10 | 0240 | 0311 | 1730 | 1801 |
| 14 | 0245 | 0315 | 1724 | 1754 |
| 18 | 0250 | 0320 | 1718 | 1748 |
| 22 | 0255 | 0325 | 1711 | 1741 |
| 26 | 0300 | 0329 | 1705 | 1734 |
| 30 | 0305 | 0334 | 1658 | 1726 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC 4 | 0502 | 0533 | 1438 | 1509 |
| 8 | 0506 | 0537 | 1437 | 1508 |
| 12 | 0509 | 0540 | 1437 | 1509 |
| 16 | 0512 | 0544 | 1438 | 1509 |
| 20 | 0514 | 0546 | 1439 | 1511 |
| 24 | 0516 | 0548 | 1441 | 1513 |
| 28 | 0518 | 0549 | 1444 | 1516 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR 3 | 0323 | 0351 | 1646 | 1714 |
| 7 | 0316 | 0344 | 1651 | 1719 |
| 11 | 0308 | 0337 | 1656 | 1724 |
| 15 | 0301 | 0330 | 1700 | 1729 |
| 19 | 0254 | 0323 | 1705 | 1735 |
| 23 | 0247 | 0317 | 1710 | 1740 |
| 27 | 0240 | 0310 | 1715 | 1745 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP 3 | 0310 | 0339 | 1650 | 1719 |
| 7 | 0315 | 0343 | 1643 | 1711 |
| 11 | 0320 | 0348 | 1636 | 1703 |
| 15 | 0325 | 0353 | 1628 | 1656 |
| 19 | 0330 | 0357 | 1621 | 1648 |
| 23 | 0334 | 0402 | 1613 | 1641 |
| 27 | 0339 | 0407 | 1605 | 1633 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN 1 | 0518 | 0550 | 1447 | 1519 |
| 5 | 0518 | 0550 | 1451 | 1522 |
| 9 | 0518 | 0549 | 1455 | 1526 |
| 13 | 0517 | 0547 | 1500 | 1531 |
| 17 | 0515 | 0545 | 1505 | 1535 |
| 21 | 0512 | 0543 | 1510 | 1540 |
| 25 | 0509 | 0539 | 1515 | 1545 |
| 29 | 0506 | 0535 | 1521 | 1550 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY 1 | 0234 | 0304 | 1720 | 1751 |
| 5 | 0228 | 0259 | 1725 | 1756 |
| 9 | 0222 | 0253 | 1730 | 1801 |
| 13 | 0216 | 0248 | 1735 | 1806 |
| 17 | 0211 | 0244 | 1739 | 1811 |
| 21 | 0207 | 0240 | 1743 | 1816 |
| 25 | 0203 | 0236 | 1748 | 1821 |
| 29 | 0200 | 0234 | 1751 | 1825 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT 1 | 0344 | 0411 | 1558 | 1626 |
| 5 | 0349 | 0416 | 1551 | 1618 |
| 9 | 0354 | 0421 | 1543 | 1611 |
| 13 | 0359 | 0426 | 1536 | 1604 |
| 17 | 0403 | 0431 | 1530 | 1557 |
| 21 | 0408 | 0436 | 1523 | 1551 |
| 25 | 0413 | 0442 | 1517 | 1545 |
| 29 | 0418 | 0447 | 1511 | 1539 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB 2 | 0502 | 0531 | 1526 | 1556 |
| 6 | 0457 | 0526 | 1532 | 1601 |
| 10 | 0452 | 0521 | 1538 | 1606 |
| 14 | 0447 | 0515 | 1543 | 1612 |
| 18 | 0441 | 0509 | 1549 | 1617 |
| 22 | 0435 | 0503 | 1554 | 1622 |
| 26 | 0429 | 0456 | 1600 | 1627 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN 2 | 0157 | 0231 | 1755 | 1829 |
| 6 | 0155 | 0230 | 1758 | 1832 |
| 10 | 0154 | 0228 | 1801 | 1835 |
| 14 | 0153 | 0228 | 1803 | 1838 |
| 18 | 0153 | 0228 | 1804 | 1839 |
| 22 | 0154 | 0229 | 1805 | 1840 |
| 26 | 0155 | 0230 | 1806 | 1841 |
| 30 | 0157 | 0232 | 1806 | 1841 |

BUCURESTI / Henri Coanda - LROP
443416N 0260506E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0157 | 0232 | 1806 | 1841 |
| 5 | 0200 | 0235 | 1805 | 1839 |
| 9 | 0203 | 0238 | 1803 | 1838 |
| 13 | 0207 | 0241 | 1801 | 1835 |
| 17 | 0211 | 0245 | 1758 | 1832 |
| 21 | 0215 | 0248 | 1755 | 1828 |
| 25 | 0220 | 0253 | 1751 | 1823 |
| 29 | 0225 | 0257 | 1746 | 1819 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0424 | 0453 | 1505 | 1534 |
| 6 | 0429 | 0458 | 1500 | 1529 |
| 10 | 0434 | 0503 | 1455 | 1524 |
| 14 | 0439 | 0509 | 1450 | 1520 |
| 18 | 0444 | 0514 | 1447 | 1517 |
| 22 | 0449 | 0519 | 1443 | 1514 |
| 26 | 0453 | 0524 | 1441 | 1511 |
| 30 | 0458 | 0529 | 1439 | 1510 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0422 | 0450 | 1605 | 1633 |
| 6 | 0415 | 0443 | 1610 | 1638 |
| 10 | 0408 | 0436 | 1615 | 1643 |
| 14 | 0401 | 0428 | 1621 | 1648 |
| 18 | 0353 | 0421 | 1626 | 1653 |
| 22 | 0346 | 0413 | 1631 | 1658 |
| 26 | 0338 | 0406 | 1636 | 1703 |
| 30 | 0331 | 0359 | 1641 | 1709 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG 2 | 0230 | 0301 | 1742 | 1813 |
| 6 | 0235 | 0306 | 1736 | 1807 |
| 10 | 0240 | 0311 | 1731 | 1801 |
| 14 | 0245 | 0315 | 1725 | 1755 |
| 18 | 0250 | 0320 | 1718 | 1748 |
| 22 | 0255 | 0325 | 1712 | 1741 |
| 26 | 0300 | 0329 | 1705 | 1734 |
| 30 | 0305 | 0334 | 1658 | 1726 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC 4 | 0502 | 0533 | 1437 | 1509 |
| 8 | 0506 | 0537 | 1437 | 1508 |
| 12 | 0509 | 0541 | 1437 | 1508 |
| 16 | 0512 | 0544 | 1438 | 1509 |
| 20 | 0515 | 0546 | 1439 | 1511 |
| 24 | 0517 | 0548 | 1441 | 1513 |
| 28 | 0518 | 0550 | 1444 | 1515 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR 3 | 0323 | 0351 | 1646 | 1714 |
| 7 | 0316 | 0344 | 1651 | 1719 |
| 11 | 0308 | 0337 | 1656 | 1724 |
| 15 | 0301 | 0330 | 1701 | 1730 |
| 19 | 0254 | 0323 | 1706 | 1735 |
| 23 | 0247 | 0316 | 1711 | 1740 |
| 27 | 0240 | 0310 | 1716 | 1746 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP 3 | 0310 | 0339 | 1650 | 1719 |
| 7 | 0315 | 0343 | 1643 | 1711 |
| 11 | 0320 | 0348 | 1636 | 1704 |
| 15 | 0325 | 0353 | 1628 | 1656 |
| 19 | 0330 | 0357 | 1621 | 1648 |
| 23 | 0334 | 0402 | 1613 | 1641 |
| 27 | 0339 | 0407 | 1606 | 1633 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN 1 | 0519 | 0550 | 1447 | 1519 |
| 5 | 0519 | 0550 | 1451 | 1522 |
| 9 | 0518 | 0549 | 1455 | 1526 |
| 13 | 0517 | 0548 | 1500 | 1531 |
| 17 | 0515 | 0546 | 1505 | 1535 |
| 21 | 0513 | 0543 | 1510 | 1540 |
| 25 | 0510 | 0540 | 1515 | 1545 |
| 29 | 0506 | 0536 | 1521 | 1550 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY 1 | 0234 | 0304 | 1720 | 1751 |
| 5 | 0227 | 0258 | 1725 | 1756 |
| 9 | 0222 | 0253 | 1730 | 1802 |
| 13 | 0216 | 0248 | 1735 | 1807 |
| 17 | 0211 | 0244 | 1739 | 1812 |
| 21 | 0207 | 0240 | 1744 | 1817 |
| 25 | 0203 | 0236 | 1748 | 1821 |
| 29 | 0200 | 0233 | 1752 | 1826 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT 1 | 0344 | 0412 | 1558 | 1626 |
| 5 | 0349 | 0416 | 1551 | 1618 |
| 9 | 0354 | 0421 | 1544 | 1611 |
| 13 | 0359 | 0426 | 1536 | 1604 |
| 17 | 0404 | 0431 | 1530 | 1557 |
| 21 | 0409 | 0437 | 1523 | 1551 |
| 25 | 0414 | 0442 | 1517 | 1545 |
| 29 | 0419 | 0447 | 1511 | 1539 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB 2 | 0502 | 0531 | 1526 | 1556 |
| 6 | 0457 | 0526 | 1532 | 1601 |
| 10 | 0452 | 0521 | 1538 | 1606 |
| 14 | 0447 | 0515 | 1543 | 1612 |
| 18 | 0441 | 0509 | 1549 | 1617 |
| 22 | 0435 | 0503 | 1554 | 1622 |
| 26 | 0429 | 0457 | 1600 | 1627 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN 2 | 0157 | 0231 | 1755 | 1829 |
| 6 | 0155 | 0229 | 1758 | 1833 |
| 10 | 0153 | 0228 | 1801 | 1836 |
| 14 | 0153 | 0228 | 1803 | 1838 |
| 18 | 0153 | 0228 | 1805 | 1840 |
| 22 | 0153 | 0229 | 1806 | 1841 |
| 26 | 0155 | 0230 | 1806 | 1841 |
| 30 | 0157 | 0232 | 1806 | 1841 |



CARANSEBES / Banat-Caransebes - LRCS
452513N 0221508E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| JUL | 1 | 0208 | 0244 | 1824 | 1900 |
| | 5 | 0211 | 0247 | 1823 | 1859 |
| | 9 | 0215 | 0250 | 1822 | 1857 |
| | 13 | 0218 | 0253 | 1819 | 1854 |
| | 17 | 0223 | 0257 | 1816 | 1851 |
| | 21 | 0227 | 0301 | 1813 | 1847 |
| | 25 | 0232 | 0305 | 1809 | 1842 |
| | 29 | 0237 | 0310 | 1804 | 1837 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| NOV | 2 | 0440 | 0510 | 1518 | 1548 |
| | 6 | 0446 | 0515 | 1513 | 1543 |
| | 10 | 0451 | 0521 | 1508 | 1538 |
| | 14 | 0456 | 0526 | 1504 | 1534 |
| | 18 | 0501 | 0532 | 1500 | 1530 |
| | 22 | 0506 | 0537 | 1456 | 1527 |
| | 26 | 0511 | 0542 | 1453 | 1525 |
| | 30 | 0515 | 0547 | 1451 | 1523 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| MAR | 2 | 0438 | 0506 | 1620 | 1648 |
| | 6 | 0431 | 0459 | 1625 | 1653 |
| | 10 | 0423 | 0451 | 1630 | 1658 |
| | 14 | 0416 | 0444 | 1636 | 1704 |
| | 18 | 0408 | 0436 | 1641 | 1709 |
| | 22 | 0401 | 0429 | 1646 | 1714 |
| | 26 | 0353 | 0421 | 1651 | 1720 |
| | 30 | 0345 | 0413 | 1657 | 1725 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| AUG | 2 | 0242 | 0314 | 1759 | 1832 |
| | 6 | 0247 | 0319 | 1754 | 1826 |
| | 10 | 0253 | 0324 | 1748 | 1819 |
| | 14 | 0258 | 0329 | 1742 | 1813 |
| | 18 | 0303 | 0333 | 1735 | 1806 |
| | 22 | 0308 | 0338 | 1728 | 1758 |
| | 26 | 0314 | 0343 | 1721 | 1751 |
| | 30 | 0319 | 0348 | 1714 | 1743 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| DEC | 4 | 0520 | 0551 | 1450 | 1522 |
| | 8 | 0524 | 0556 | 1449 | 1521 |
| | 12 | 0527 | 0559 | 1449 | 1521 |
| | 16 | 0530 | 0602 | 1450 | 1522 |
| | 20 | 0532 | 0605 | 1451 | 1524 |
| | 24 | 0534 | 0607 | 1453 | 1526 |
| | 28 | 0536 | 0608 | 1456 | 1528 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| APR | 3 | 0337 | 0406 | 1702 | 1730 |
| | 7 | 0330 | 0358 | 1707 | 1736 |
| | 11 | 0322 | 0351 | 1712 | 1741 |
| | 15 | 0315 | 0344 | 1717 | 1747 |
| | 19 | 0307 | 0337 | 1722 | 1752 |
| | 23 | 0300 | 0330 | 1728 | 1758 |
| | 27 | 0253 | 0324 | 1733 | 1803 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| SEP | 3 | 0324 | 0353 | 1707 | 1736 |
| | 7 | 0329 | 0358 | 1659 | 1728 |
| | 11 | 0334 | 0403 | 1652 | 1720 |
| | 15 | 0339 | 0408 | 1644 | 1712 |
| | 19 | 0344 | 0412 | 1636 | 1704 |
| | 23 | 0349 | 0417 | 1628 | 1656 |
| | 27 | 0354 | 0422 | 1621 | 1649 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| JAN | 1 | 0536 | 0608 | 1459 | 1532 |
| | 5 | 0536 | 0608 | 1503 | 1535 |
| | 9 | 0536 | 0607 | 1508 | 1539 |
| | 13 | 0534 | 0606 | 1512 | 1544 |
| | 17 | 0532 | 0604 | 1517 | 1548 |
| | 21 | 0530 | 0601 | 1523 | 1553 |
| | 25 | 0527 | 0557 | 1528 | 1559 |
| | 29 | 0523 | 0553 | 1534 | 1604 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| MAY | 1 | 0246 | 0317 | 1738 | 1809 |
| | 5 | 0240 | 0312 | 1743 | 1814 |
| | 9 | 0234 | 0306 | 1748 | 1820 |
| | 13 | 0228 | 0301 | 1753 | 1825 |
| | 17 | 0223 | 0256 | 1757 | 1831 |
| | 21 | 0219 | 0252 | 1802 | 1836 |
| | 25 | 0215 | 0249 | 1806 | 1840 |
| | 29 | 0211 | 0246 | 1810 | 1845 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| OCT | 1 | 0359 | 0427 | 1613 | 1641 |
| | 5 | 0404 | 0432 | 1606 | 1634 |
| | 9 | 0409 | 0437 | 1558 | 1626 |
| | 13 | 0414 | 0443 | 1551 | 1619 |
| | 17 | 0419 | 0448 | 1544 | 1612 |
| | 21 | 0425 | 0453 | 1537 | 1606 |
| | 25 | 0430 | 0459 | 1531 | 1559 |
| | 29 | 0435 | 0504 | 1524 | 1553 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| FEB | 2 | 0519 | 0549 | 1540 | 1609 |
| | 6 | 0514 | 0544 | 1545 | 1615 |
| | 10 | 0509 | 0538 | 1551 | 1620 |
| | 14 | 0503 | 0532 | 1557 | 1626 |
| | 18 | 0457 | 0526 | 1603 | 1631 |
| | 22 | 0451 | 0520 | 1608 | 1637 |
| | 26 | 0445 | 0513 | 1614 | 1642 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| JUN | 2 | 0208 | 0243 | 1814 | 1849 |
| | 6 | 0206 | 0241 | 1817 | 1852 |
| | 10 | 0205 | 0240 | 1820 | 1855 |
| | 14 | 0204 | 0240 | 1822 | 1858 |
| | 18 | 0204 | 0240 | 1823 | 1859 |
| | 22 | 0204 | 0240 | 1824 | 1901 |
| | 26 | 0206 | 0242 | 1825 | 1901 |
| | 30 | 0208 | 0244 | 1825 | 1901 |

CISNADIE / Magura - LRCD
454414N 0240955E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| JUL | 1 | 0159 | 0235 | 1818 | 1854 |
| | 5 | 0202 | 0238 | 1817 | 1853 |
| | 9 | 0205 | 0241 | 1815 | 1851 |
| | 13 | 0209 | 0244 | 1813 | 1848 |
| | 17 | 0213 | 0248 | 1810 | 1845 |
| | 21 | 0218 | 0252 | 1806 | 1841 |
| | 25 | 0223 | 0256 | 1802 | 1836 |
| | 29 | 0228 | 0301 | 1758 | 1831 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| NOV | 2 | 0433 | 0503 | 1510 | 1540 |
| | 6 | 0438 | 0508 | 1505 | 1534 |
| | 10 | 0444 | 0514 | 1500 | 1530 |
| | 14 | 0449 | 0519 | 1455 | 1525 |
| | 18 | 0454 | 0525 | 1451 | 1522 |
| | 22 | 0459 | 0530 | 1448 | 1519 |
| | 26 | 0504 | 0535 | 1445 | 1516 |
| | 30 | 0509 | 0540 | 1443 | 1514 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| MAR | 2 | 0430 | 0458 | 1612 | 1640 |
| | 6 | 0423 | 0451 | 1617 | 1645 |
| | 10 | 0416 | 0444 | 1623 | 1651 |
| | 14 | 0408 | 0436 | 1628 | 1656 |
| | 18 | 0400 | 0429 | 1633 | 1701 |
| | 22 | 0353 | 0421 | 1639 | 1707 |
| | 26 | 0345 | 0413 | 1644 | 1712 |
| | 30 | 0337 | 0406 | 1649 | 1718 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| AUG | 2 | 0233 | 0306 | 1753 | 1825 |
| | 6 | 0239 | 0310 | 1747 | 1819 |
| | 10 | 0244 | 0315 | 1741 | 1813 |
| | 14 | 0249 | 0320 | 1735 | 1806 |
| | 18 | 0255 | 0325 | 1728 | 1759 |
| | 22 | 0300 | 0330 | 1721 | 1751 |
| | 26 | 0305 | 0335 | 1714 | 1744 |
| | 30 | 0311 | 0340 | 1707 | 1736 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| DEC | 4 | 0513 | 0545 | 1441 | 1513 |
| | 8 | 0517 | 0549 | 1440 | 1513 |
| | 12 | 0520 | 0553 | 1440 | 1513 |
| | 16 | 0523 | 0556 | 1441 | 1514 |
| | 20 | 0526 | 0558 | 1442 | 1515 |
| | 24 | 0528 | 0600 | 1445 | 1517 |
| | 28 | 0529 | 0601 | 1447 | 1520 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| APR | 3 | 0329 | 0358 | 1654 | 1723 |
| | 7 | 0322 | 0350 | 1700 | 1729 |
| | 11 | 0314 | 0343 | 1705 | 1734 |
| | 15 | 0306 | 0336 | 1710 | 1740 |
| | 19 | 0259 | 0329 | 1715 | 1745 |
| | 23 | 0252 | 0322 | 1721 | 1751 |
| | 27 | 0244 | 0315 | 1726 | 1757 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| SEP | 3 | 0316 | 0345 | 1700 | 1729 |
| | 7 | 0321 | 0350 | 1652 | 1721 |
| | 11 | 0326 | 0355 | 1644 | 1713 |
| | 15 | 0331 | 0400 | 1636 | 1705 |
| | 19 | 0336 | 0405 | 1629 | 1657 |
| | 23 | 0341 | 0410 | 1621 | 1649 |
| | 27 | 0347 | 0415 | 1613 | 1641 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| JAN | 1 | 0530 | 0602 | 1451 | 1523 |
| | 5 | 0530 | 0602 | 1454 | 1527 |
| | 9 | 0529 | 0601 | 1459 | 1531 |
| | 13 | 0528 | 0559 | 1504 | 1535 |
| | 17 | 0526 | 0557 | 1509 | 1540 |
| | 21 | 0523 | 0554 | 1514 | 1545 |
| | 25 | 0520 | 0551 | 1520 | 1550 |
| | 29 | 0516 | 0546 | 1525 | 1556 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| MAY | 1 | 0238 | 0309 | 1731 | 1802 |
| | 5 | 0231 | 0303 | 1736 | 1808 |
| | 9 | 0225 | 0258 | 1741 | 1813 |
| | 13 | 0220 | 0252 | 1746 | 1819 |
| | 17 | 0214 | 0248 | 1751 | 1824 |
| | 21 | 0210 | 0244 | 1755 | 1829 |
| | 25 | 0205 | 0240 | 1800 | 1834 |
| | 29 | 0202 | 0237 | 1804 | 1839 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| OCT | 1 | 0352 | 0420 | 1605 | 1633 |
| | 5 | 0357 | 0425 | 1558 | 1626 |
| | 9 | 0402 | 0430 | 1550 | 1618 |
| | 13 | 0407 | 0435 | 1543 | 1611 |
| | 17 | 0412 | 0441 | 1536 | 1604 |
| | 21 | 0417 | 0446 | 1529 | 1558 |
| | 25 | 0423 | 0451 | 1522 | 1551 |
| | 29 | 0428 | 0457 | 1516 | 1545 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| FEB | 2 | 0512 | 0542 | 1531 | 1601 |
| | 6 | 0507 | 0537 | 1537 | 1607 |
| | 10 | 0502 | 0531 | 1543 | 1612 |
| | 14 | 0456 | 0525 | 1549 | 1618 |
| | 18 | 0450 | 0519 | 1555 | 1623 |
| | 22 | 0444 | 0512 | 1600 | 1629 |
| | 26 | 0437 | 0506 | 1606 | 1634 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| JUN | 2 | 0159 | 0234 | 1807 | 1843 |
| | 6 | 0157 | 0233 | 1810 | 1846 |
| | 10 | 0155 | 0231 | 1813 | 1849 |
| | 14 | 0154 | 0231 | 1815 | 1852 |
| | 18 | 0154 | 0231 | 1817 | 1854 |
| | 22 | 0155 | 0231 | 1818 | 1855 |
| | 26 | 0156 | 0233 | 1819 | 185 |



CLINCENI / Clinceni - LRCN
442130N 0255550E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0159 | 0234 | 1806 | 1840 |
| 5 | 0202 | 0236 | 1805 | 1839 |
| 9 | 0205 | 0239 | 1803 | 1837 |
| 13 | 0209 | 0242 | 1801 | 1835 |
| 17 | 0213 | 0246 | 1758 | 1831 |
| 21 | 0217 | 0250 | 1755 | 1828 |
| 25 | 0221 | 0254 | 1751 | 1823 |
| 29 | 0226 | 0258 | 1746 | 1818 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0424 | 0453 | 1506 | 1535 |
| 6 | 0429 | 0458 | 1501 | 1530 |
| 10 | 0434 | 0503 | 1456 | 1525 |
| 14 | 0439 | 0509 | 1452 | 1521 |
| 18 | 0444 | 0514 | 1448 | 1518 |
| 22 | 0449 | 0519 | 1445 | 1515 |
| 26 | 0453 | 0524 | 1442 | 1513 |
| 30 | 0458 | 0529 | 1440 | 1511 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0423 | 0450 | 1606 | 1633 |
| 6 | 0416 | 0443 | 1611 | 1639 |
| 10 | 0409 | 0436 | 1616 | 1644 |
| 14 | 0401 | 0429 | 1621 | 1649 |
| 18 | 0354 | 0421 | 1626 | 1654 |
| 22 | 0347 | 0414 | 1631 | 1659 |
| 26 | 0339 | 0407 | 1636 | 1704 |
| 30 | 0332 | 0359 | 1641 | 1709 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG 2 | 0231 | 0303 | 1742 | 1813 |
| 6 | 0236 | 0307 | 1736 | 1807 |
| 10 | 0241 | 0312 | 1731 | 1801 |
| 14 | 0246 | 0316 | 1725 | 1755 |
| 18 | 0251 | 0321 | 1718 | 1748 |
| 22 | 0256 | 0326 | 1712 | 1741 |
| 26 | 0301 | 0330 | 1705 | 1734 |
| 30 | 0306 | 0335 | 1658 | 1727 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC 4 | 0502 | 0533 | 1439 | 1510 |
| 8 | 0506 | 0537 | 1438 | 1509 |
| 12 | 0509 | 0541 | 1438 | 1501 |
| 16 | 0512 | 0544 | 1439 | 1511 |
| 20 | 0515 | 0546 | 1440 | 1512 |
| 24 | 0517 | 0548 | 1442 | 1514 |
| 28 | 0518 | 0549 | 1445 | 1517 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR 3 | 0324 | 0352 | 1646 | 1714 |
| 7 | 0317 | 0345 | 1651 | 1719 |
| 11 | 0309 | 0338 | 1656 | 1724 |
| 15 | 0302 | 0331 | 1701 | 1730 |
| 19 | 0255 | 0324 | 1706 | 1735 |
| 23 | 0248 | 0317 | 1711 | 1740 |
| 27 | 0241 | 0311 | 1716 | 1746 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP 3 | 0311 | 0339 | 1651 | 1719 |
| 7 | 0316 | 0344 | 1644 | 1712 |
| 11 | 0321 | 0349 | 1636 | 1704 |
| 15 | 0326 | 0353 | 1629 | 1656 |
| 19 | 0330 | 0358 | 1621 | 1649 |
| 23 | 0335 | 0403 | 1614 | 1641 |
| 27 | 0340 | 0407 | 1606 | 1634 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN 1 | 0519 | 0550 | 1448 | 1520 |
| 5 | 0519 | 0550 | 1452 | 1523 |
| 9 | 0518 | 0549 | 1456 | 1527 |
| 13 | 0517 | 0548 | 1501 | 1532 |
| 17 | 0515 | 0546 | 1506 | 1536 |
| 21 | 0513 | 0543 | 1511 | 1541 |
| 25 | 0510 | 0540 | 1516 | 1546 |
| 29 | 0506 | 0536 | 1522 | 1551 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY 1 | 0235 | 0305 | 1721 | 1751 |
| 5 | 0229 | 0300 | 1725 | 1756 |
| 9 | 0223 | 0254 | 1730 | 1801 |
| 13 | 0218 | 0249 | 1735 | 1807 |
| 17 | 0213 | 0245 | 1739 | 1812 |
| 21 | 0208 | 0241 | 1744 | 1816 |
| 25 | 0204 | 0238 | 1748 | 1821 |
| 29 | 0201 | 0235 | 1752 | 1825 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT 1 | 0345 | 0412 | 1559 | 1626 |
| 5 | 0349 | 0417 | 1551 | 1619 |
| 9 | 0354 | 0422 | 1544 | 1612 |
| 13 | 0359 | 0427 | 1537 | 1605 |
| 17 | 0404 | 0432 | 1530 | 1558 |
| 21 | 0409 | 0437 | 1524 | 1552 |
| 25 | 0414 | 0442 | 1518 | 1546 |
| 29 | 0419 | 0447 | 1512 | 1540 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB 2 | 0502 | 0531 | 1527 | 1557 |
| 6 | 0458 | 0527 | 1533 | 1602 |
| 10 | 0453 | 0521 | 1539 | 1607 |
| 14 | 0447 | 0516 | 1544 | 1612 |
| 18 | 0442 | 0510 | 1550 | 1618 |
| 22 | 0436 | 0503 | 1555 | 1623 |
| 26 | 0429 | 0457 | 1600 | 1628 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN 2 | 0158 | 0232 | 1755 | 1829 |
| 6 | 0156 | 0231 | 1758 | 1832 |
| 10 | 0155 | 0230 | 1801 | 1835 |
| 14 | 0154 | 0229 | 1803 | 1838 |
| 18 | 0154 | 0229 | 1804 | 1839 |
| 22 | 0155 | 0230 | 1805 | 1840 |
| 26 | 0156 | 0231 | 1806 | 1841 |
| 30 | 0158 | 0233 | 1806 | 1841 |

CLUJ NAPOCA / Avram Iancu - LRCL
464721N 0234132E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0155 | 0233 | 1824 | 1902 |
| 5 | 0158 | 0235 | 1823 | 1900 |
| 9 | 0202 | 0239 | 1821 | 1858 |
| 13 | 0206 | 0242 | 1819 | 1855 |
| 17 | 0210 | 0246 | 1816 | 1851 |
| 21 | 0215 | 0250 | 1812 | 1847 |
| 25 | 0220 | 0255 | 1808 | 1842 |
| 29 | 0226 | 0300 | 1803 | 1837 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0437 | 0507 | 1510 | 1540 |
| 6 | 0442 | 0513 | 1504 | 1534 |
| 10 | 0448 | 0518 | 1459 | 1530 |
| 14 | 0453 | 0524 | 1454 | 1525 |
| 18 | 0458 | 0530 | 1450 | 1521 |
| 22 | 0504 | 0536 | 1446 | 1518 |
| 26 | 0509 | 0541 | 1443 | 1515 |
| 30 | 0513 | 0546 | 1441 | 1513 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0432 | 0501 | 1612 | 1641 |
| 6 | 0425 | 0454 | 1618 | 1647 |
| 10 | 0417 | 0446 | 1624 | 1653 |
| 14 | 0410 | 0438 | 1630 | 1658 |
| 18 | 0402 | 0430 | 1635 | 1704 |
| 22 | 0354 | 0423 | 1641 | 1710 |
| 26 | 0346 | 0415 | 1646 | 1715 |
| 30 | 0338 | 0407 | 1652 | 1721 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG 2 | 0231 | 0304 | 1758 | 1831 |
| 6 | 0237 | 0309 | 1752 | 1825 |
| 10 | 0242 | 0315 | 1746 | 1818 |
| 14 | 0248 | 0320 | 1739 | 1811 |
| 18 | 0254 | 0325 | 1732 | 1804 |
| 22 | 0259 | 0330 | 1725 | 1756 |
| 26 | 0305 | 0335 | 1718 | 1748 |
| 30 | 0310 | 0340 | 1710 | 1740 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC 4 | 0518 | 0551 | 1439 | 1512 |
| 8 | 0522 | 0555 | 1438 | 1511 |
| 12 | 0525 | 0559 | 1438 | 1511 |
| 16 | 0528 | 0602 | 1439 | 1512 |
| 20 | 0531 | 0604 | 1440 | 1514 |
| 24 | 0533 | 0606 | 1442 | 1516 |
| 28 | 0534 | 0607 | 1445 | 1518 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR 3 | 0330 | 0359 | 1657 | 1727 |
| 7 | 0322 | 0351 | 1703 | 1732 |
| 11 | 0314 | 0343 | 1708 | 1738 |
| 15 | 0306 | 0336 | 1714 | 1744 |
| 19 | 0258 | 0329 | 1719 | 1750 |
| 23 | 0251 | 0322 | 1725 | 1756 |
| 27 | 0243 | 0315 | 1730 | 1802 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP 3 | 0316 | 0346 | 1703 | 1732 |
| 7 | 0321 | 0351 | 1655 | 1724 |
| 11 | 0327 | 0356 | 1647 | 1716 |
| 15 | 0332 | 0401 | 1639 | 1708 |
| 19 | 0337 | 0406 | 1631 | 1700 |
| 23 | 0343 | 0411 | 1623 | 1652 |
| 27 | 0348 | 0417 | 1615 | 1643 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN 1 | 0535 | 0608 | 1449 | 1522 |
| 5 | 0535 | 0608 | 1452 | 1525 |
| 9 | 0534 | 0606 | 1457 | 1530 |
| 13 | 0532 | 0605 | 1502 | 1534 |
| 17 | 0530 | 0602 | 1507 | 1539 |
| 21 | 0527 | 0559 | 1513 | 1544 |
| 25 | 0524 | 0555 | 1518 | 1550 |
| 29 | 0520 | 0551 | 1524 | 1555 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY 1 | 0236 | 0308 | 1735 | 1808 |
| 5 | 0230 | 0302 | 1741 | 1813 |
| 9 | 0223 | 0256 | 1746 | 1819 |
| 13 | 0217 | 0251 | 1751 | 1825 |
| 17 | 0212 | 0246 | 1756 | 1831 |
| 21 | 0207 | 0242 | 1801 | 1836 |
| 25 | 0202 | 0238 | 1805 | 1841 |
| 29 | 0159 | 0235 | 1810 | 1846 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT 1 | 0353 | 0422 | 1607 | 1636 |
| 5 | 0359 | 0427 | 1559 | 1628 |
| 9 | 0404 | 0433 | 1551 | 1620 |
| 13 | 0409 | 0438 | 1544 | 1613 |
| 17 | 0415 | 0444 | 1536 | 1605 |
| 21 | 0420 | 0449 | 1529 | 1559 |
| 25 | 0426 | 0455 | 1522 | 1552 |
| 29 | 0431 | 0501 | 1516 | 1546 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB 2 | 0516 | 0546 | 1530 | 1601 |
| 6 | 0511 | 0541 | 1536 | 1607 |
| 10 | 0505 | 0535 | 1543 | 1613 |
| 14 | 0459 | 0529 | 1549 | 1618 |
| 18 | 0453 | 0523 | 1555 | 1624 |
| 22 | 0447 | 0516 | 1601 | 1630 |
| 26 | 0440 | 0509 | 1607 | 1636 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN 2 | 0156 | 0232 | 1813 | 1850 |
| 6 | 0153 | 0230 | 1817 | 1854 |
| 10 | 0152 | 0229 | 1820 | 1857 |
| 14 | 0151 | 0228 | 1822 | 1859 |
| 18 | 0151 | 0228 | 1823 | 1901 |
| 22 | 0151 | 0229 | 1825 | 1902 |
| 26 | 0153 | 0230 | 1825 | 1903 |
| 30 | 0155 | 0232 | 1825 | 1902 |



CONSTANTA / Mihail Kogalniceanu-Constanta - LRCK
442144N 0282918E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| JUL | 1 | 0149 | 0224 | 1755 | 1830 |
| | 5 | 0151 | 0226 | 1754 | 1829 |
| | 9 | 0155 | 0229 | 1753 | 1827 |
| | 13 | 0158 | 0232 | 1751 | 1824 |
| | 17 | 0202 | 0236 | 1748 | 1821 |
| | 21 | 0207 | 0240 | 1744 | 1817 |
| | 25 | 0211 | 0244 | 1741 | 1813 |
| | 29 | 0216 | 0248 | 1736 | 1808 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| NOV | 2 | 0414 | 0442 | 1456 | 1524 |
| | 6 | 0419 | 0448 | 1451 | 1520 |
| | 10 | 0424 | 0453 | 1446 | 1515 |
| | 14 | 0429 | 0459 | 1441 | 1511 |
| | 18 | 0434 | 0504 | 1438 | 1508 |
| | 22 | 0439 | 0509 | 1434 | 1505 |
| | 26 | 0443 | 0514 | 1432 | 1502 |
| | 30 | 0448 | 0518 | 1430 | 1501 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| MAR | 2 | 0412 | 0440 | 1556 | 1623 |
| | 6 | 0405 | 0433 | 1601 | 1628 |
| | 10 | 0358 | 0426 | 1606 | 1633 |
| | 14 | 0351 | 0419 | 1611 | 1638 |
| | 18 | 0344 | 0411 | 1616 | 1644 |
| | 22 | 0336 | 0404 | 1621 | 1649 |
| | 26 | 0329 | 0357 | 1626 | 1654 |
| | 30 | 0321 | 0349 | 1631 | 1659 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| AUG | 2 | 0221 | 0252 | 1731 | 1803 |
| | 6 | 0226 | 0257 | 1726 | 1757 |
| | 10 | 0231 | 0301 | 1720 | 1751 |
| | 14 | 0236 | 0306 | 1714 | 1745 |
| | 18 | 0241 | 0311 | 1708 | 1738 |
| | 22 | 0246 | 0315 | 1702 | 1731 |
| | 26 | 0251 | 0320 | 1655 | 1724 |
| | 30 | 0256 | 0325 | 1648 | 1716 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| DEC | 4 | 0452 | 0523 | 1429 | 1500 |
| | 8 | 0456 | 0527 | 1428 | 1459 |
| | 12 | 0459 | 0530 | 1428 | 1459 |
| | 16 | 0502 | 0533 | 1429 | 1500 |
| | 20 | 0504 | 0536 | 1430 | 1502 |
| | 24 | 0506 | 0538 | 1432 | 1504 |
| | 28 | 0508 | 0539 | 1435 | 1506 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| APR | 3 | 0314 | 0342 | 1636 | 1704 |
| | 7 | 0306 | 0335 | 1641 | 1709 |
| | 11 | 0259 | 0328 | 1646 | 1714 |
| | 15 | 0252 | 0321 | 1651 | 1719 |
| | 19 | 0245 | 0314 | 1656 | 1725 |
| | 23 | 0238 | 0307 | 1701 | 1730 |
| | 27 | 0231 | 0301 | 1706 | 1735 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| SEP | 3 | 0301 | 0329 | 1641 | 1709 |
| | 7 | 0306 | 0334 | 1633 | 1701 |
| | 11 | 0311 | 0338 | 1626 | 1654 |
| | 15 | 0315 | 0343 | 1618 | 1646 |
| | 19 | 0320 | 0348 | 1611 | 1639 |
| | 23 | 0325 | 0352 | 1603 | 1631 |
| | 27 | 0330 | 0357 | 1556 | 1623 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| JAN | 1 | 0508 | 0540 | 1438 | 1510 |
| | 5 | 0508 | 0540 | 1442 | 1513 |
| | 9 | 0508 | 0539 | 1446 | 1517 |
| | 13 | 0507 | 0537 | 1451 | 1521 |
| | 17 | 0505 | 0535 | 1456 | 1526 |
| | 21 | 0503 | 0533 | 1501 | 1531 |
| | 25 | 0500 | 0529 | 1506 | 1536 |
| | 29 | 0456 | 0526 | 1512 | 1541 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| MAY | 1 | 0225 | 0255 | 1710 | 1741 |
| | 5 | 0219 | 0249 | 1715 | 1746 |
| | 9 | 0213 | 0244 | 1720 | 1751 |
| | 13 | 0207 | 0239 | 1725 | 1756 |
| | 17 | 0203 | 0235 | 1729 | 1801 |
| | 21 | 0158 | 0231 | 1733 | 1806 |
| | 25 | 0154 | 0227 | 1738 | 1811 |
| | 29 | 0151 | 0225 | 1741 | 1815 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| OCT | 1 | 0334 | 0402 | 1549 | 1616 |
| | 5 | 0339 | 0407 | 1541 | 1609 |
| | 9 | 0344 | 0412 | 1534 | 1602 |
| | 13 | 0349 | 0417 | 1527 | 1555 |
| | 17 | 0354 | 0422 | 1520 | 1548 |
| | 21 | 0359 | 0427 | 1514 | 1542 |
| | 25 | 0404 | 0432 | 1507 | 1536 |
| | 29 | 0409 | 0437 | 1501 | 1530 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| FEB | 2 | 0452 | 0521 | 1517 | 1546 |
| | 6 | 0448 | 0516 | 1523 | 1552 |
| | 10 | 0443 | 0511 | 1528 | 1557 |
| | 14 | 0437 | 0506 | 1534 | 1602 |
| | 18 | 0431 | 0500 | 1539 | 1607 |
| | 22 | 0425 | 0453 | 1545 | 1613 |
| | 26 | 0419 | 0447 | 1550 | 1618 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| JUN | 2 | 0148 | 0222 | 1745 | 1819 |
| | 6 | 0146 | 0221 | 1748 | 1822 |
| | 10 | 0145 | 0219 | 1750 | 1825 |
| | 14 | 0144 | 0219 | 1753 | 1827 |
| | 18 | 0144 | 0219 | 1754 | 1829 |
| | 22 | 0145 | 0220 | 1755 | 1830 |
| | 26 | 0146 | 0221 | 1756 | 1831 |
| | 30 | 0148 | 0223 | 1756 | 1830 |

CRAIOVA / Craiova - LRCV
441905N 0235319E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| JUL | 1 | 0207 | 0242 | 1814 | 1848 |
| | 5 | 0210 | 0245 | 1813 | 1847 |
| | 9 | 0213 | 0247 | 1811 | 1845 |
| | 13 | 0217 | 0251 | 1809 | 1843 |
| | 17 | 0221 | 0254 | 1806 | 1839 |
| | 21 | 0225 | 0258 | 1803 | 1836 |
| | 25 | 0230 | 0302 | 1759 | 1831 |
| | 29 | 0235 | 0306 | 1754 | 1826 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| NOV | 2 | 0432 | 0501 | 1514 | 1543 |
| | 6 | 0437 | 0506 | 1509 | 1538 |
| | 10 | 0442 | 0511 | 1504 | 1533 |
| | 14 | 0447 | 0517 | 1500 | 1530 |
| | 18 | 0452 | 0522 | 1456 | 1526 |
| | 22 | 0457 | 0527 | 1453 | 1523 |
| | 26 | 0502 | 0532 | 1450 | 1521 |
| | 30 | 0506 | 0537 | 1448 | 1519 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| MAR | 2 | 0431 | 0458 | 1614 | 1642 |
| | 6 | 0424 | 0451 | 1619 | 1647 |
| | 10 | 0417 | 0444 | 1624 | 1652 |
| | 14 | 0410 | 0437 | 1629 | 1657 |
| | 18 | 0402 | 0430 | 1635 | 1702 |
| | 22 | 0355 | 0422 | 1640 | 1707 |
| | 26 | 0347 | 0415 | 1644 | 1712 |
| | 30 | 0340 | 0408 | 1649 | 1717 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| AUG | 2 | 0239 | 0311 | 1750 | 1821 |
| | 6 | 0244 | 0315 | 1744 | 1815 |
| | 10 | 0249 | 0320 | 1739 | 1809 |
| | 14 | 0255 | 0325 | 1733 | 1803 |
| | 18 | 0300 | 0329 | 1726 | 1756 |
| | 22 | 0305 | 0334 | 1720 | 1749 |
| | 26 | 0310 | 0338 | 1713 | 1742 |
| | 30 | 0315 | 0343 | 1706 | 1735 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| DEC | 4 | 0510 | 0541 | 1447 | 1518 |
| | 8 | 0514 | 0545 | 1446 | 1518 |
| | 12 | 0517 | 0549 | 1447 | 1518 |
| | 16 | 0520 | 0552 | 1447 | 1519 |
| | 20 | 0523 | 0554 | 1449 | 1520 |
| | 24 | 0525 | 0556 | 1451 | 1522 |
| | 28 | 0526 | 0557 | 1453 | 1525 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| APR | 3 | 0332 | 0400 | 1654 | 1722 |
| | 7 | 0325 | 0353 | 1659 | 1727 |
| | 11 | 0318 | 0346 | 1704 | 1733 |
| | 15 | 0310 | 0339 | 1709 | 1738 |
| | 19 | 0303 | 0332 | 1714 | 1743 |
| | 23 | 0256 | 0326 | 1719 | 1748 |
| | 27 | 0250 | 0319 | 1724 | 1754 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| SEP | 3 | 0319 | 0348 | 1659 | 1727 |
| | 7 | 0324 | 0352 | 1652 | 1720 |
| | 11 | 0329 | 0357 | 1644 | 1712 |
| | 15 | 0334 | 0402 | 1637 | 1704 |
| | 19 | 0339 | 0406 | 1629 | 1657 |
| | 23 | 0343 | 0411 | 1622 | 1649 |
| | 27 | 0348 | 0416 | 1614 | 1642 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| JAN | 1 | 0527 | 0558 | 1457 | 1528 |
| | 5 | 0527 | 0558 | 1500 | 1532 |
| | 9 | 0526 | 0557 | 1505 | 1536 |
| | 13 | 0525 | 0556 | 1509 | 1540 |
| | 17 | 0523 | 0554 | 1514 | 1545 |
| | 21 | 0521 | 0551 | 1519 | 1549 |
| | 25 | 0518 | 0548 | 1525 | 1554 |
| | 29 | 0514 | 0544 | 1530 | 1600 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| MAY | 1 | 0243 | 0313 | 1729 | 1759 |
| | 5 | 0237 | 0308 | 1734 | 1804 |
| | 9 | 0231 | 0303 | 1738 | 1810 |
| | 13 | 0226 | 0258 | 1743 | 1815 |
| | 17 | 0221 | 0253 | 1747 | 1820 |
| | 21 | 0217 | 0249 | 1752 | 1824 |
| | 25 | 0213 | 0246 | 1756 | 1829 |
| | 29 | 0209 | 0243 | 1800 | 1833 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| OCT | 1 | 0353 | 0420 | 1607 | 1634 |
| | 5 | 0358 | 0425 | 1600 | 1627 |
| | 9 | 0402 | 0430 | 1552 | 1620 |
| | 13 | 0407 | 0435 | 1545 | 1613 |
| | 17 | 0412 | 0440 | 1539 | 1606 |
| | 21 | 0417 | 0445 | 1532 | 1600 |
| | 25 | 0422 | 0450 | 1526 | 1554 |
| | 29 | 0427 | 0456 | 1520 | 1548 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| FEB | 2 | 0510 | 0540 | 1536 | 1605 |
| | 6 | 0506 | 0535 | 1541 | 1610 |
| | 10 | 0501 | 0529 | 1547 | 1615 |
| | 14 | 0455 | 0524 | 1552 | 1621 |
| | 18 | 0450 | 0518 | 1558 | 1626 |
| | 22 | 0444 | 0512 | 1603 | 1631 |
| | 26 | 0437 | 0505 | 1609 | 1636 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| JUN | 2 | 0207 | 0241 | 1803 | 1837 |
| | 6 | 0205 | 0239 | 1806 | 1840 |
| | 10 | 0203 | 0238 | 1809 | 1843 |
| | 14 | 0203 | 0238 | 1811 | 1846 |
| | 18 | 0203 | 0238 | 1812 | 1847 |
| | 22 | 0203 | 0238 | 1814 | 1848 |
| | 26 | 0205 | 0240 | 1814 | |



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441711N 0234728E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0208 | 0243 | 1814 | 1848 |
| 5 | 0211 | 0245 | 1813 | 1847 |
| 9 | 0214 | 0248 | 1811 | 1845 |
| 13 | 0217 | 0251 | 1809 | 1843 |
| 17 | 0221 | 0255 | 1806 | 1840 |
| 21 | 0226 | 0259 | 1803 | 1836 |
| 25 | 0230 | 0303 | 1759 | 1831 |
| 29 | 0235 | 0307 | 1755 | 1827 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0432 | 0501 | 1515 | 1543 |
| 6 | 0438 | 0506 | 1509 | 1538 |
| 10 | 0443 | 0512 | 1505 | 1534 |
| 14 | 0448 | 0517 | 1500 | 1530 |
| 18 | 0452 | 0522 | 1457 | 1527 |
| 22 | 0457 | 0527 | 1453 | 1524 |
| 26 | 0502 | 0532 | 1451 | 1521 |
| 30 | 0506 | 0537 | 1449 | 1520 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0431 | 0459 | 1614 | 1642 |
| 6 | 0424 | 0452 | 1620 | 1647 |
| 10 | 0417 | 0445 | 1625 | 1652 |
| 14 | 0410 | 0437 | 1630 | 1657 |
| 18 | 0403 | 0430 | 1635 | 1702 |
| 22 | 0355 | 0423 | 1640 | 1707 |
| 26 | 0348 | 0415 | 1645 | 1712 |
| 30 | 0340 | 0408 | 1650 | 1717 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG 2 | 0240 | 0311 | 1750 | 1821 |
| 6 | 0245 | 0316 | 1745 | 1816 |
| 10 | 0250 | 0320 | 1739 | 1810 |
| 14 | 0255 | 0325 | 1733 | 1803 |
| 18 | 0300 | 0330 | 1727 | 1756 |
| 22 | 0305 | 0334 | 1720 | 1749 |
| 26 | 0310 | 0339 | 1713 | 1742 |
| 30 | 0315 | 0344 | 1706 | 1735 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC 4 | 0510 | 0541 | 1448 | 1519 |
| 8 | 0514 | 0545 | 1447 | 1518 |
| 12 | 0518 | 0549 | 1447 | 1518 |
| 16 | 0521 | 0552 | 1448 | 1519 |
| 20 | 0523 | 0555 | 1449 | 1521 |
| 24 | 0525 | 0556 | 1451 | 1523 |
| 28 | 0526 | 0558 | 1454 | 1525 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR 3 | 0333 | 0401 | 1655 | 1723 |
| 7 | 0325 | 0353 | 1700 | 1728 |
| 11 | 0318 | 0346 | 1705 | 1733 |
| 15 | 0311 | 0339 | 1709 | 1738 |
| 19 | 0304 | 0333 | 1714 | 1743 |
| 23 | 0257 | 0326 | 1719 | 1749 |
| 27 | 0250 | 0320 | 1724 | 1754 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP 3 | 0320 | 0348 | 1659 | 1728 |
| 7 | 0325 | 0353 | 1652 | 1720 |
| 11 | 0330 | 0357 | 1645 | 1712 |
| 15 | 0334 | 0402 | 1637 | 1705 |
| 19 | 0339 | 0407 | 1630 | 1657 |
| 23 | 0344 | 0411 | 1622 | 1650 |
| 27 | 0349 | 0416 | 1615 | 1642 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN 1 | 0527 | 0558 | 1457 | 1529 |
| 5 | 0527 | 0558 | 1501 | 1532 |
| 9 | 0527 | 0557 | 1505 | 1536 |
| 13 | 0525 | 0556 | 1510 | 1540 |
| 17 | 0524 | 0554 | 1515 | 1545 |
| 21 | 0521 | 0551 | 1520 | 1550 |
| 25 | 0518 | 0548 | 1525 | 1555 |
| 29 | 0515 | 0544 | 1531 | 1600 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY 1 | 0244 | 0314 | 1729 | 1759 |
| 5 | 0238 | 0308 | 1734 | 1805 |
| 9 | 0232 | 0303 | 1739 | 1810 |
| 13 | 0226 | 0258 | 1743 | 1815 |
| 17 | 0222 | 0254 | 1748 | 1820 |
| 21 | 0217 | 0250 | 1752 | 1825 |
| 25 | 0213 | 0246 | 1756 | 1829 |
| 29 | 0210 | 0244 | 1800 | 1833 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT 1 | 0353 | 0421 | 1607 | 1635 |
| 5 | 0358 | 0425 | 1600 | 1627 |
| 9 | 0403 | 0430 | 1553 | 1620 |
| 13 | 0408 | 0435 | 1546 | 1614 |
| 17 | 0413 | 0440 | 1539 | 1607 |
| 21 | 0417 | 0445 | 1533 | 1600 |
| 25 | 0422 | 0451 | 1526 | 1554 |
| 29 | 0427 | 0456 | 1520 | 1549 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB 2 | 0511 | 0540 | 1536 | 1605 |
| 6 | 0506 | 0535 | 1542 | 1611 |
| 10 | 0501 | 0530 | 1547 | 1616 |
| 14 | 0456 | 0524 | 1553 | 1621 |
| 18 | 0450 | 0518 | 1558 | 1626 |
| 22 | 0444 | 0512 | 1604 | 1632 |
| 26 | 0438 | 0505 | 1609 | 1637 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN 2 | 0207 | 0241 | 1803 | 1837 |
| 6 | 0205 | 0240 | 1806 | 1841 |
| 10 | 0204 | 0239 | 1809 | 1844 |
| 14 | 0203 | 0238 | 1811 | 1846 |
| 18 | 0203 | 0238 | 1813 | 1848 |
| 22 | 0204 | 0239 | 1814 | 1849 |
| 26 | 0205 | 0240 | 1814 | 1849 |
| 30 | 0207 | 0242 | 1814 | 1849 |

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455159N 0225758E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0203 | 0240 | 1823 | 1900 |
| 5 | 0206 | 0242 | 1822 | 1858 |
| 9 | 0210 | 0245 | 1821 | 1856 |
| 13 | 0213 | 0249 | 1818 | 1853 |
| 17 | 0218 | 0252 | 1815 | 1850 |
| 21 | 0222 | 0257 | 1812 | 1846 |
| 25 | 0227 | 0301 | 1808 | 1841 |
| 29 | 0232 | 0305 | 1803 | 1836 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0438 | 0508 | 1515 | 1544 |
| 6 | 0444 | 0513 | 1509 | 1539 |
| 10 | 0449 | 0519 | 1504 | 1534 |
| 14 | 0454 | 0525 | 1459 | 1530 |
| 18 | 0459 | 0530 | 1455 | 1526 |
| 22 | 0504 | 0536 | 1452 | 1523 |
| 26 | 0509 | 0541 | 1449 | 1521 |
| 30 | 0514 | 0546 | 1447 | 1519 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0435 | 0503 | 1616 | 1645 |
| 6 | 0428 | 0456 | 1622 | 1650 |
| 10 | 0420 | 0449 | 1627 | 1656 |
| 14 | 0413 | 0441 | 1633 | 1701 |
| 18 | 0405 | 0433 | 1638 | 1706 |
| 22 | 0357 | 0426 | 1643 | 1712 |
| 26 | 0350 | 0418 | 1649 | 1717 |
| 30 | 0342 | 0410 | 1654 | 1723 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG 2 | 0238 | 0310 | 1758 | 1830 |
| 6 | 0243 | 0315 | 1752 | 1824 |
| 10 | 0248 | 0320 | 1746 | 1818 |
| 14 | 0254 | 0325 | 1740 | 1811 |
| 18 | 0259 | 0330 | 1733 | 1804 |
| 22 | 0305 | 0335 | 1726 | 1757 |
| 26 | 0310 | 0340 | 1719 | 1749 |
| 30 | 0315 | 0345 | 1712 | 1741 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC 4 | 0518 | 0550 | 1445 | 1518 |
| 8 | 0522 | 0554 | 1445 | 1517 |
| 12 | 0525 | 0558 | 1445 | 1517 |
| 16 | 0528 | 0601 | 1445 | 1518 |
| 20 | 0531 | 0604 | 1447 | 1519 |
| 24 | 0533 | 0606 | 1449 | 1521 |
| 28 | 0534 | 0607 | 1452 | 1524 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR 3 | 0334 | 0403 | 1659 | 1728 |
| 7 | 0326 | 0355 | 1705 | 1734 |
| 11 | 0318 | 0348 | 1710 | 1739 |
| 15 | 0311 | 0340 | 1715 | 1745 |
| 19 | 0303 | 0333 | 1720 | 1750 |
| 23 | 0256 | 0326 | 1726 | 1756 |
| 27 | 0249 | 0320 | 1731 | 1802 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP 3 | 0320 | 0350 | 1704 | 1734 |
| 7 | 0326 | 0355 | 1657 | 1726 |
| 11 | 0331 | 0359 | 1649 | 1718 |
| 15 | 0336 | 0404 | 1641 | 1710 |
| 19 | 0341 | 0409 | 1633 | 1702 |
| 23 | 0346 | 0414 | 1626 | 1654 |
| 27 | 0351 | 0419 | 1618 | 1646 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN 1 | 0535 | 0607 | 1455 | 1527 |
| 5 | 0535 | 0607 | 1459 | 1531 |
| 9 | 0534 | 0606 | 1503 | 1535 |
| 13 | 0533 | 0604 | 1508 | 1540 |
| 17 | 0531 | 0602 | 1513 | 1544 |
| 21 | 0528 | 0559 | 1518 | 1550 |
| 25 | 0525 | 0556 | 1524 | 1555 |
| 29 | 0521 | 0552 | 1530 | 1600 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY 1 | 0242 | 0313 | 1736 | 1807 |
| 5 | 0236 | 0308 | 1741 | 1813 |
| 9 | 0230 | 0302 | 1746 | 1819 |
| 13 | 0224 | 0257 | 1751 | 1824 |
| 17 | 0219 | 0252 | 1756 | 1830 |
| 21 | 0214 | 0248 | 1801 | 1835 |
| 25 | 0210 | 0244 | 1805 | 1839 |
| 29 | 0206 | 0241 | 1809 | 1844 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT 1 | 0356 | 0425 | 1610 | 1638 |
| 5 | 0401 | 0430 | 1602 | 1631 |
| 9 | 0407 | 0435 | 1555 | 1623 |
| 13 | 0412 | 0440 | 1548 | 1616 |
| 17 | 0417 | 0446 | 1540 | 1609 |
| 21 | 0422 | 0451 | 1534 | 1602 |
| 25 | 0428 | 0456 | 1527 | 1556 |
| 29 | 0433 | 0502 | 1521 | 1550 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB 2 | 0517 | 0547 | 1536 | 1606 |
| 6 | 0512 | 0542 | 1542 | 1611 |
| 10 | 0507 | 0536 | 1547 | 1617 |
| 14 | 0501 | 0530 | 1553 | 1622 |
| 18 | 0455 | 0524 | 1559 | 1628 |
| 22 | 0449 | 0517 | 1605 | 1634 |
| 26 | 0442 | 0510 | 1611 | 1639 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN 2 | 0203 | 0239 | 1813 | 1848 |
| 6 | 0201 | 0237 | 1816 | 1852 |
| 10 | 0159 | 0236 | 1819 | 1855 |
| 14 | 0159 | 0235 | 1821 | 1857 |
| 18 | 0158 | 0235 | 1822 | 1859 |
| 22 | 0159 | 0236 | 1823 | 1900 |
| 26 | 0201 | 0237 | 1824 | 1900 |
| 30 | 0203 | 0239 | 1824 | 1900 |



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464645N 0234243E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL | 1 | 0155 | 0233 | 1824 |
| | 5 | 0158 | 0235 | 1823 |
| | 9 | 0202 | 0239 | 1821 |
| | 13 | 0206 | 0242 | 1819 |
| | 17 | 0210 | 0246 | 1816 |
| | 21 | 0215 | 0250 | 1812 |
| | 25 | 0220 | 0255 | 1808 |
| | 29 | 0226 | 0300 | 1803 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV | 2 | 0437 | 0507 | 1510 |
| | 6 | 0442 | 0513 | 1504 |
| | 10 | 0448 | 0518 | 1459 |
| | 14 | 0453 | 0524 | 1454 |
| | 18 | 0458 | 0530 | 1450 |
| | 22 | 0504 | 0535 | 1446 |
| | 26 | 0509 | 0541 | 1443 |
| | 30 | 0513 | 0546 | 1441 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR | 2 | 0432 | 0501 | 1612 |
| | 6 | 0425 | 0454 | 1618 |
| | 10 | 0417 | 0446 | 1624 |
| | 14 | 0410 | 0438 | 1630 |
| | 18 | 0402 | 0430 | 1635 |
| | 22 | 0354 | 0423 | 1641 |
| | 26 | 0346 | 0415 | 1646 |
| | 30 | 0338 | 0407 | 1652 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG | 2 | 0231 | 0304 | 1758 |
| | 6 | 0237 | 0309 | 1752 |
| | 10 | 0242 | 0314 | 1746 |
| | 14 | 0248 | 0320 | 1739 |
| | 18 | 0254 | 0325 | 1732 |
| | 22 | 0259 | 0330 | 1725 |
| | 26 | 0305 | 0335 | 1718 |
| | 30 | 0310 | 0340 | 1710 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC | 4 | 0518 | 0550 | 1439 |
| | 8 | 0522 | 0555 | 1438 |
| | 12 | 0525 | 0558 | 1438 |
| | 16 | 0528 | 0602 | 1439 |
| | 20 | 0531 | 0604 | 1440 |
| | 24 | 0533 | 0606 | 1442 |
| | 28 | 0534 | 0607 | 1445 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR | 3 | 0330 | 0359 | 1657 |
| | 7 | 0322 | 0351 | 1703 |
| | 11 | 0314 | 0343 | 1708 |
| | 15 | 0306 | 0336 | 1714 |
| | 19 | 0258 | 0329 | 1719 |
| | 23 | 0251 | 0322 | 1725 |
| | 27 | 0243 | 0315 | 1730 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP | 3 | 0316 | 0345 | 1703 |
| | 7 | 0321 | 0351 | 1655 |
| | 11 | 0327 | 0356 | 1647 |
| | 15 | 0332 | 0401 | 1639 |
| | 19 | 0337 | 0406 | 1631 |
| | 23 | 0343 | 0411 | 1623 |
| | 27 | 0348 | 0417 | 1615 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN | 1 | 0535 | 0608 | 1448 |
| | 5 | 0534 | 0607 | 1452 |
| | 9 | 0534 | 0606 | 1457 |
| | 13 | 0532 | 0605 | 1502 |
| | 17 | 0530 | 0602 | 1507 |
| | 21 | 0527 | 0559 | 1513 |
| | 25 | 0524 | 0555 | 1518 |
| | 29 | 0520 | 0551 | 1524 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY | 1 | 0236 | 0308 | 1735 |
| | 5 | 0229 | 0302 | 1741 |
| | 9 | 0223 | 0256 | 1746 |
| | 13 | 0217 | 0251 | 1751 |
| | 17 | 0212 | 0246 | 1756 |
| | 21 | 0207 | 0242 | 1801 |
| | 25 | 0202 | 0238 | 1805 |
| | 29 | 0159 | 0235 | 1809 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT | 1 | 0353 | 0422 | 1607 |
| | 5 | 0359 | 0427 | 1559 |
| | 9 | 0404 | 0433 | 1551 |
| | 13 | 0409 | 0438 | 1544 |
| | 17 | 0415 | 0444 | 1536 |
| | 21 | 0420 | 0449 | 1529 |
| | 25 | 0426 | 0455 | 1522 |
| | 29 | 0431 | 0501 | 1516 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB | 2 | 0516 | 0546 | 1530 |
| | 6 | 0511 | 0541 | 1536 |
| | 10 | 0505 | 0535 | 1543 |
| | 14 | 0459 | 0529 | 1549 |
| | 18 | 0453 | 0522 | 1555 |
| | 22 | 0446 | 0516 | 1601 |
| | 26 | 0440 | 0509 | 1607 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN | 2 | 0156 | 0232 | 1813 |
| | 6 | 0153 | 0230 | 1817 |
| | 10 | 0151 | 0229 | 1819 |
| | 14 | 0151 | 0228 | 1822 |
| | 18 | 0150 | 0228 | 1823 |
| | 22 | 0151 | 0229 | 1824 |
| | 26 | 0153 | 0230 | 1825 |
| | 30 | 0155 | 0232 | 1825 |

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| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL | 1 | 0148 | 0226 | 1818 |
| | 5 | 0151 | 0228 | 1817 |
| | 9 | 0155 | 0232 | 1815 |
| | 13 | 0159 | 0235 | 1812 |
| | 17 | 0203 | 0239 | 1809 |
| | 21 | 0208 | 0243 | 1805 |
| | 25 | 0213 | 0248 | 1801 |
| | 29 | 0219 | 0253 | 1756 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV | 2 | 0430 | 0500 | 1503 |
| | 6 | 0435 | 0506 | 1457 |
| | 10 | 0441 | 0512 | 1452 |
| | 14 | 0446 | 0517 | 1447 |
| | 18 | 0452 | 0523 | 1443 |
| | 22 | 0457 | 0529 | 1439 |
| | 26 | 0502 | 0534 | 1436 |
| | 30 | 0507 | 0539 | 1434 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR | 2 | 0426 | 0454 | 1606 |
| | 6 | 0418 | 0447 | 1611 |
| | 10 | 0411 | 0439 | 1617 |
| | 14 | 0403 | 0431 | 1623 |
| | 18 | 0355 | 0424 | 1628 |
| | 22 | 0347 | 0416 | 1634 |
| | 26 | 0339 | 0408 | 1639 |
| | 30 | 0331 | 0400 | 1645 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG | 2 | 0224 | 0257 | 1751 |
| | 6 | 0230 | 0302 | 1745 |
| | 10 | 0235 | 0308 | 1739 |
| | 14 | 0241 | 0313 | 1732 |
| | 18 | 0247 | 0318 | 1726 |
| | 22 | 0252 | 0323 | 1718 |
| | 26 | 0258 | 0328 | 1711 |
| | 30 | 0303 | 0333 | 1704 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC | 4 | 0511 | 0544 | 1432 |
| | 8 | 0515 | 0548 | 1431 |
| | 12 | 0519 | 0552 | 1431 |
| | 16 | 0522 | 0555 | 1432 |
| | 20 | 0524 | 0558 | 1433 |
| | 24 | 0526 | 0559 | 1435 |
| | 28 | 0527 | 0601 | 1438 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR | 3 | 0323 | 0352 | 1650 |
| | 7 | 0315 | 0344 | 1656 |
| | 11 | 0307 | 0337 | 1701 |
| | 15 | 0259 | 0329 | 1707 |
| | 19 | 0251 | 0322 | 1712 |
| | 23 | 0244 | 0315 | 1718 |
| | 27 | 0236 | 0308 | 1723 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP | 3 | 0309 | 0339 | 1656 |
| | 7 | 0314 | 0344 | 1648 |
| | 11 | 0320 | 0349 | 1640 |
| | 15 | 0325 | 0354 | 1632 |
| | 19 | 0330 | 0359 | 1624 |
| | 23 | 0336 | 0405 | 1616 |
| | 27 | 0341 | 0410 | 1608 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN | 1 | 0528 | 0601 | 1442 |
| | 5 | 0528 | 0601 | 1445 |
| | 9 | 0527 | 0600 | 1450 |
| | 13 | 0526 | 0558 | 1455 |
| | 17 | 0523 | 0556 | 1500 |
| | 21 | 0521 | 0552 | 1506 |
| | 25 | 0517 | 0549 | 1511 |
| | 29 | 0513 | 0544 | 1517 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY | 1 | 0229 | 0301 | 1729 |
| | 5 | 0223 | 0255 | 1734 |
| | 9 | 0216 | 0249 | 1739 |
| | 13 | 0210 | 0244 | 1744 |
| | 17 | 0205 | 0239 | 1749 |
| | 21 | 0200 | 0235 | 1754 |
| | 25 | 0155 | 0231 | 1759 |
| | 29 | 0152 | 0228 | 1803 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT | 1 | 0346 | 0415 | 1600 |
| | 5 | 0352 | 0420 | 1552 |
| | 9 | 0357 | 0426 | 1544 |
| | 13 | 0402 | 0431 | 1537 |
| | 17 | 0408 | 0437 | 1529 |
| | 21 | 0413 | 0443 | 1522 |
| | 25 | 0419 | 0448 | 1516 |
| | 29 | 0424 | 0454 | 1509 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB | 2 | 0509 | 0540 | 1523 |
| | 6 | 0504 | 0534 | 1530 |
| | 10 | 0458 | 0528 | 1536 |
| | 14 | 0453 | 0522 | 1542 |
| | 18 | 0446 | 0516 | 1548 |
| | 22 | 0440 | 0509 | 1554 |
| | 26 | 0433 | 0502 | 1600 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN | 2 | 0149 | 0225 | 1807 |
| | 6 | 0146 | 0223 | 1810 |
| | 10 | 0144 | 0222 | 1813 |
| | 14 | 0144 | 0221 | 1815 |
| | 18 | 0143 | 0221 | 1817 |
| | 22 | 0144 | 0222 | 1818 |
| | 26 | 0146 | 0223 | 1818 |
| | 30 | 0148 | 0225 | 1818 |



GHIMBAV / IAR BRASOV - LRBG
454145N 0253202E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | | | |
|---------------|--------------|------|------|------------|---------------|--------------|----|------|------------|---------------|--------------|-----|----|------------|------|------|------|
| JUL | 1 | 0154 | 0230 | 1812 | 1849 | NOV | 2 | 0428 | 0457 | 1505 | 1534 | MAR | 2 | 0425 | 0453 | 1606 | 1634 |
| | 5 | 0157 | 0233 | 1811 | 1847 | | 6 | 0433 | 0503 | 1459 | 1529 | | 6 | 0418 | 0446 | 1612 | 1640 |
| | 9 | 0200 | 0236 | 1810 | 1845 | | 10 | 0438 | 0508 | 1454 | 1524 | | 10 | 0410 | 0438 | 1617 | 1645 |
| | 13 | 0204 | 0239 | 1807 | 1842 | | 14 | 0443 | 0514 | 1450 | 1520 | | 14 | 0403 | 0431 | 1623 | 1651 |
| | 17 | 0208 | 0243 | 1804 | 1839 | | 18 | 0449 | 0519 | 1446 | 1516 | | 18 | 0355 | 0423 | 1628 | 1656 |
| | 21 | 0213 | 0247 | 1801 | 1835 | | 22 | 0454 | 0525 | 1442 | 1513 | | 22 | 0347 | 0415 | 1633 | 1701 |
| | 25 | 0218 | 0251 | 1757 | 1830 | | 26 | 0458 | 0530 | 1439 | 1511 | | 26 | 0340 | 0408 | 1638 | 1707 |
| | 29 | 0223 | 0256 | 1752 | 1825 | | 30 | 0503 | 0535 | 1437 | 1509 | | 30 | 0332 | 0400 | 1644 | 1712 |
| AUG | 2 | 0228 | 0300 | 1747 | 1819 | DEC | 4 | 0507 | 0539 | 1436 | 1508 | APR | 3 | 0324 | 0353 | 1649 | 1718 |
| | 6 | 0233 | 0305 | 1741 | 1813 | | 8 | 0511 | 0543 | 1435 | 1507 | | 7 | 0316 | 0345 | 1654 | 1723 |
| | 10 | 0239 | 0310 | 1736 | 1807 | | 12 | 0515 | 0547 | 1435 | 1507 | | 11 | 0308 | 0338 | 1659 | 1729 |
| | 14 | 0244 | 0315 | 1729 | 1800 | | 16 | 0518 | 0550 | 1436 | 1508 | | 15 | 0301 | 0330 | 1705 | 1734 |
| | 18 | 0249 | 0320 | 1723 | 1753 | | 20 | 0520 | 0553 | 1437 | 1510 | | 19 | 0253 | 0323 | 1710 | 1740 |
| | 22 | 0255 | 0325 | 1716 | 1746 | | 24 | 0522 | 0555 | 1439 | 1512 | | 23 | 0246 | 0316 | 1715 | 1745 |
| | 26 | 0300 | 0330 | 1709 | 1738 | | 28 | 0523 | 0556 | 1442 | 1514 | | 27 | 0239 | 0310 | 1720 | 1751 |
| | 30 | 0305 | 0335 | 1701 | 1731 | JAN | 1 | 0524 | 0556 | 1445 | 1518 | MAY | 1 | 0232 | 0304 | 1725 | 1757 |
| SEP | 3 | 0310 | 0339 | 1654 | 1723 | | 5 | 0524 | 0556 | 1449 | 1521 | | 5 | 0226 | 0258 | 1730 | 1802 |
| | 7 | 0316 | 0344 | 1646 | 1715 | | 9 | 0523 | 0555 | 1453 | 1525 | | 9 | 0220 | 0252 | 1736 | 1808 |
| | 11 | 0321 | 0349 | 1639 | 1707 | | 13 | 0522 | 0554 | 1458 | 1530 | | 13 | 0214 | 0247 | 1740 | 1813 |
| | 15 | 0326 | 0354 | 1631 | 1659 | | 17 | 0520 | 0551 | 1503 | 1535 | | 17 | 0209 | 0242 | 1745 | 1819 |
| | 19 | 0331 | 0359 | 1623 | 1651 | | 21 | 0517 | 0548 | 1509 | 1540 | | 21 | 0204 | 0238 | 1750 | 1824 |
| | 23 | 0336 | 0404 | 1615 | 1643 | | 25 | 0514 | 0545 | 1514 | 1545 | | 25 | 0200 | 0235 | 1754 | 1828 |
| | 27 | 0341 | 0409 | 1608 | 1636 | | 29 | 0511 | 0541 | 1520 | 1550 | | 29 | 0157 | 0232 | 1758 | 1833 |
| OCT | 1 | 0346 | 0414 | 1600 | 1628 | FEB | 2 | 0506 | 0536 | 1526 | 1556 | JUN | 2 | 0154 | 0229 | 1802 | 1837 |
| | 5 | 0351 | 0419 | 1552 | 1620 | | 6 | 0502 | 0531 | 1532 | 1601 | | 6 | 0151 | 0227 | 1805 | 1841 |
| | 9 | 0356 | 0424 | 1545 | 1613 | | 10 | 0456 | 0526 | 1537 | 1607 | | 10 | 0150 | 0226 | 1808 | 1844 |
| | 13 | 0401 | 0430 | 1538 | 1606 | | 14 | 0451 | 0520 | 1543 | 1612 | | 14 | 0149 | 0225 | 1810 | 1846 |
| | 17 | 0407 | 0435 | 1530 | 1559 | | 18 | 0445 | 0513 | 1549 | 1618 | | 18 | 0149 | 0225 | 1811 | 1848 |
| | 21 | 0412 | 0440 | 1524 | 1552 | | 22 | 0438 | 0507 | 1555 | 1623 | | 22 | 0150 | 0226 | 1813 | 1849 |
| | 25 | 0417 | 0446 | 1517 | 1546 | | 26 | 0432 | 0500 | 1601 | 1629 | | 26 | 0151 | 0227 | 1813 | 1849 |
| | 29 | 0422 | 0451 | 1511 | 1540 | | | | | | | | 30 | 0153 | 0229 | 1813 | 1849 |

GHIMBAV / MIR AERO-Brasov - LRMA
454114N 0253137E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | | | |
|---------------|--------------|------|------|------------|---------------|--------------|----|------|------------|---------------|--------------|-----|----|------------|------|------|------|
| JUL | 1 | 0154 | 0230 | 1812 | 1849 | NOV | 2 | 0428 | 0457 | 1505 | 1534 | MAR | 2 | 0425 | 0453 | 1606 | 1634 |
| | 5 | 0157 | 0233 | 1811 | 1847 | | 6 | 0433 | 0503 | 1459 | 1529 | | 6 | 0418 | 0446 | 1612 | 1640 |
| | 9 | 0200 | 0236 | 1810 | 1845 | | 10 | 0438 | 0508 | 1454 | 1524 | | 10 | 0410 | 0438 | 1617 | 1645 |
| | 13 | 0204 | 0239 | 1807 | 1842 | | 14 | 0443 | 0514 | 1450 | 1520 | | 14 | 0403 | 0431 | 1623 | 1651 |
| | 17 | 0208 | 0243 | 1804 | 1839 | | 18 | 0449 | 0519 | 1446 | 1516 | | 18 | 0355 | 0423 | 1628 | 1656 |
| | 21 | 0213 | 0247 | 1801 | 1835 | | 22 | 0454 | 0525 | 1442 | 1513 | | 22 | 0347 | 0415 | 1633 | 1701 |
| | 25 | 0218 | 0251 | 1757 | 1830 | | 26 | 0458 | 0530 | 1439 | 1511 | | 26 | 0340 | 0408 | 1638 | 1707 |
| | 29 | 0223 | 0256 | 1752 | 1825 | | 30 | 0503 | 0535 | 1437 | 1509 | | 30 | 0332 | 0400 | 1644 | 1712 |
| AUG | 2 | 0228 | 0300 | 1747 | 1819 | DEC | 4 | 0507 | 0539 | 1436 | 1508 | APR | 3 | 0324 | 0353 | 1649 | 1718 |
| | 6 | 0233 | 0305 | 1741 | 1813 | | 8 | 0511 | 0543 | 1435 | 1507 | | 7 | 0316 | 0345 | 1654 | 1723 |
| | 10 | 0239 | 0310 | 1736 | 1807 | | 12 | 0515 | 0547 | 1435 | 1507 | | 11 | 0308 | 0338 | 1659 | 1729 |
| | 14 | 0244 | 0315 | 1729 | 1800 | | 16 | 0518 | 0550 | 1436 | 1508 | | 15 | 0301 | 0330 | 1705 | 1734 |
| | 18 | 0249 | 0320 | 1723 | 1753 | | 20 | 0520 | 0553 | 1437 | 1510 | | 19 | 0253 | 0323 | 1710 | 1740 |
| | 22 | 0255 | 0325 | 1716 | 1746 | | 24 | 0522 | 0555 | 1439 | 1512 | | 23 | 0246 | 0317 | 1715 | 1745 |
| | 26 | 0300 | 0330 | 1709 | 1738 | | 28 | 0523 | 0556 | 1442 | 1514 | | 27 | 0239 | 0310 | 1720 | 1751 |
| | 30 | 0305 | 0335 | 1701 | 1731 | JAN | 1 | 0524 | 0556 | 1445 | 1518 | MAY | 1 | 0232 | 0304 | 1725 | 1757 |
| SEP | 3 | 0311 | 0340 | 1654 | 1723 | | 5 | 0524 | 0556 | 1449 | 1521 | | 5 | 0226 | 0258 | 1731 | 1802 |
| | 7 | 0316 | 0344 | 1646 | 1715 | | 9 | 0523 | 0555 | 1454 | 1525 | | 9 | 0220 | 0252 | 1736 | 1808 |
| | 11 | 0321 | 0349 | 1639 | 1707 | | 13 | 0522 | 0554 | 1458 | 1530 | | 13 | 0214 | 0247 | 1740 | 1813 |
| | 15 | 0326 | 0354 | 1631 | 1659 | | 17 | 0520 | 0551 | 1503 | 1535 | | 17 | 0209 | 0242 | 1745 | 1819 |
| | 19 | 0331 | 0359 | 1623 | 1651 | | 21 | 0517 | 0548 | 1509 | 1540 | | 21 | 0204 | 0238 | 1750 | 1824 |
| | 23 | 0336 | 0404 | 1615 | 1644 | | 25 | 0514 | 0545 | 1514 | 1545 | | 25 | 0200 | 0235 | 1754 | 1828 |
| | 27 | 0341 | 0409 | 1608 | 1636 | | 29 | 0511 | 0541 | 1520 | 1550 | | 29 | 0157 | 0232 | 1758 | 1833 |
| OCT | 1 | 0346 | 0414 | 1600 | 1628 | FEB | 2 | 0506 | 0536 | 1526 | 1556 | JUN | 2 | 0154 | 0229 | 1802 | 1837 |
| | 5 | 0351 | 0419 | 1552 | 1620 | | 6 | 0502 | 0531 | 1532 | 1601 | | 6 | 0152 | 0227 | 1805 | 1841 |
| | 9 | 0356 | 0424 | 1545 | 1613 | | 10 | 0456 | 0526 | 1538 | 1607 | | 10 | 0150 | 0226 | 1808 | 1844 |
| | 13 | 0401 | 0430 | 1538 | 1606 | | 14 | 0451 | 0520 | 1543 | 1612 | | 14 | 0149 | 0225 | 1810 | 1846 |
| | 17 | 0407 | 0435 | 1530 | 1559 | | 18 | 0445 | 0513 | 1549 | 1618 | | 18 | 0149 | 0226 | 1811 | 1848 |
| | 21 | 0412 | 0440 | 1524 | 1552 | | 22 | 0438 | 0507 | 1555 | 1623 | | 22 | 0150 | 0226 | 1812 | 1849 |
| | 25 | 0417 | 0446 | 1517 | 1546 | | 26 | 0432 | 0500 | 1601 | 1629 | | 26 | 0151 | 0228 | 1813 | 1849 |
| | 29 | 0422 | 0451 | 1511 | 1540 | | | | | | | | 30 | 0153 | 0229 | 1813 | 1849 |



GRADISTEA / Gradistea - LRBA
441330N 0260717E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0159 | 0233 | 1804 | 1839 |
| 5 | 0202 | 0236 | 1803 | 1838 |
| 9 | 0205 | 0239 | 1802 | 1836 |
| 13 | 0208 | 0242 | 1800 | 1833 |
| 17 | 0212 | 0246 | 1757 | 1830 |
| 21 | 0217 | 0249 | 1753 | 1826 |
| 25 | 0221 | 0254 | 1750 | 1822 |
| 29 | 0226 | 0258 | 1745 | 1817 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0423 | 0452 | 1505 | 1534 |
| 6 | 0428 | 0457 | 1500 | 1529 |
| 10 | 0433 | 0502 | 1456 | 1525 |
| 14 | 0438 | 0508 | 1451 | 1521 |
| 18 | 0443 | 0513 | 1447 | 1517 |
| 22 | 0448 | 0518 | 1444 | 1514 |
| 26 | 0452 | 0523 | 1442 | 1512 |
| 30 | 0457 | 0528 | 1440 | 1510 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0422 | 0449 | 1605 | 1633 |
| 6 | 0415 | 0442 | 1610 | 1638 |
| 10 | 0408 | 0435 | 1615 | 1643 |
| 14 | 0401 | 0428 | 1621 | 1648 |
| 18 | 0353 | 0421 | 1626 | 1653 |
| 22 | 0346 | 0413 | 1631 | 1658 |
| 26 | 0339 | 0406 | 1635 | 1703 |
| 30 | 0331 | 0359 | 1640 | 1708 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG 2 | 0231 | 0302 | 1740 | 1812 |
| 6 | 0236 | 0307 | 1735 | 1806 |
| 10 | 0241 | 0311 | 1730 | 1800 |
| 14 | 0246 | 0316 | 1724 | 1754 |
| 18 | 0251 | 0320 | 1717 | 1747 |
| 22 | 0256 | 0325 | 1711 | 1740 |
| 26 | 0301 | 0330 | 1704 | 1733 |
| 30 | 0306 | 0334 | 1657 | 1726 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC 4 | 0501 | 0532 | 1438 | 1509 |
| 8 | 0505 | 0536 | 1438 | 1509 |
| 12 | 0508 | 0539 | 1438 | 1509 |
| 16 | 0511 | 0542 | 1439 | 1510 |
| 20 | 0513 | 0545 | 1440 | 1512 |
| 24 | 0515 | 0547 | 1442 | 1514 |
| 28 | 0517 | 0548 | 1445 | 1516 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR 3 | 0324 | 0351 | 1645 | 1713 |
| 7 | 0316 | 0344 | 1650 | 1718 |
| 11 | 0309 | 0337 | 1655 | 1723 |
| 15 | 0302 | 0330 | 1700 | 1729 |
| 19 | 0254 | 0323 | 1705 | 1734 |
| 23 | 0248 | 0317 | 1710 | 1739 |
| 27 | 0241 | 0311 | 1715 | 1744 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP 3 | 0311 | 0339 | 1650 | 1718 |
| 7 | 0315 | 0343 | 1643 | 1711 |
| 11 | 0320 | 0348 | 1635 | 1703 |
| 15 | 0325 | 0353 | 1628 | 1655 |
| 19 | 0330 | 0357 | 1620 | 1648 |
| 23 | 0334 | 0402 | 1613 | 1640 |
| 27 | 0339 | 0407 | 1605 | 1633 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN 1 | 0517 | 0549 | 1448 | 1519 |
| 5 | 0518 | 0549 | 1452 | 1523 |
| 9 | 0517 | 0548 | 1456 | 1527 |
| 13 | 0516 | 0547 | 1501 | 1531 |
| 17 | 0514 | 0544 | 1506 | 1536 |
| 21 | 0512 | 0542 | 1511 | 1541 |
| 25 | 0509 | 0539 | 1516 | 1546 |
| 29 | 0505 | 0535 | 1521 | 1551 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY 1 | 0235 | 0305 | 1720 | 1750 |
| 5 | 0228 | 0259 | 1724 | 1755 |
| 9 | 0223 | 0254 | 1729 | 1800 |
| 13 | 0217 | 0249 | 1734 | 1805 |
| 17 | 0213 | 0245 | 1738 | 1810 |
| 21 | 0208 | 0241 | 1742 | 1815 |
| 25 | 0204 | 0237 | 1747 | 1820 |
| 29 | 0201 | 0234 | 1750 | 1824 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT 1 | 0344 | 0411 | 1558 | 1625 |
| 5 | 0349 | 0416 | 1551 | 1618 |
| 9 | 0353 | 0421 | 1544 | 1611 |
| 13 | 0358 | 0426 | 1537 | 1604 |
| 17 | 0403 | 0431 | 1530 | 1558 |
| 21 | 0408 | 0436 | 1523 | 1551 |
| 25 | 0413 | 0441 | 1517 | 1545 |
| 29 | 0418 | 0446 | 1511 | 1539 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB 2 | 0501 | 0530 | 1527 | 1556 |
| 6 | 0457 | 0526 | 1532 | 1601 |
| 10 | 0452 | 0520 | 1538 | 1607 |
| 14 | 0446 | 0515 | 1544 | 1612 |
| 18 | 0441 | 0509 | 1549 | 1617 |
| 22 | 0435 | 0503 | 1554 | 1622 |
| 26 | 0428 | 0456 | 1600 | 1628 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN 2 | 0158 | 0232 | 1754 | 1828 |
| 6 | 0156 | 0231 | 1757 | 1831 |
| 10 | 0155 | 0229 | 1759 | 1834 |
| 14 | 0154 | 0229 | 1802 | 1836 |
| 18 | 0154 | 0229 | 1803 | 1838 |
| 22 | 0155 | 0230 | 1804 | 1839 |
| 26 | 0156 | 0231 | 1805 | 1839 |
| 30 | 0158 | 0233 | 1804 | 1839 |

IASI / Iasi - LRIA
471049N 0273715E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0138 | 0215 | 1810 | 1848 |
| 5 | 0141 | 0218 | 1809 | 1847 |
| 9 | 0144 | 0221 | 1807 | 1844 |
| 13 | 0148 | 0225 | 1805 | 1841 |
| 17 | 0153 | 0229 | 1802 | 1838 |
| 21 | 0158 | 0233 | 1758 | 1833 |
| 25 | 0203 | 0238 | 1753 | 1828 |
| 29 | 0208 | 0243 | 1749 | 1823 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0422 | 0452 | 1453 | 1524 |
| 6 | 0427 | 0458 | 1447 | 1518 |
| 10 | 0433 | 0504 | 1442 | 1513 |
| 14 | 0438 | 0510 | 1437 | 1509 |
| 18 | 0444 | 0515 | 1433 | 1505 |
| 22 | 0449 | 0521 | 1429 | 1501 |
| 26 | 0454 | 0526 | 1426 | 1459 |
| 30 | 0459 | 0532 | 1424 | 1457 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0417 | 0446 | 1556 | 1625 |
| 6 | 0409 | 0438 | 1602 | 1631 |
| 10 | 0402 | 0431 | 1608 | 1637 |
| 14 | 0354 | 0423 | 1614 | 1643 |
| 18 | 0346 | 0415 | 1619 | 1648 |
| 22 | 0338 | 0407 | 1625 | 1654 |
| 26 | 0330 | 0359 | 1631 | 1700 |
| 30 | 0322 | 0351 | 1636 | 1706 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG 2 | 0214 | 0247 | 1743 | 1817 |
| 6 | 0219 | 0253 | 1737 | 1810 |
| 10 | 0225 | 0258 | 1731 | 1804 |
| 14 | 0231 | 0303 | 1724 | 1756 |
| 18 | 0237 | 0308 | 1718 | 1749 |
| 22 | 0242 | 0314 | 1710 | 1741 |
| 26 | 0248 | 0319 | 1703 | 1734 |
| 30 | 0254 | 0324 | 1655 | 1726 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC 4 | 0503 | 0536 | 1422 | 1455 |
| 8 | 0507 | 0541 | 1421 | 1455 |
| 12 | 0511 | 0544 | 1421 | 1455 |
| 16 | 0514 | 0548 | 1422 | 1455 |
| 20 | 0516 | 0550 | 1423 | 1457 |
| 24 | 0518 | 0552 | 1425 | 1459 |
| 28 | 0520 | 0553 | 1428 | 1501 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR 3 | 0313 | 0343 | 1642 | 1711 |
| 7 | 0305 | 0335 | 1647 | 1717 |
| 11 | 0257 | 0327 | 1653 | 1723 |
| 15 | 0249 | 0320 | 1659 | 1729 |
| 19 | 0241 | 0312 | 1704 | 1735 |
| 23 | 0234 | 0305 | 1710 | 1741 |
| 27 | 0226 | 0258 | 1715 | 1747 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP 3 | 0259 | 0329 | 1647 | 1717 |
| 7 | 0305 | 0335 | 1640 | 1709 |
| 11 | 0310 | 0340 | 1632 | 1701 |
| 15 | 0316 | 0345 | 1623 | 1653 |
| 19 | 0321 | 0350 | 1615 | 1644 |
| 23 | 0327 | 0356 | 1607 | 1636 |
| 27 | 0332 | 0401 | 1559 | 1628 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN 1 | 0520 | 0554 | 1431 | 1505 |
| 5 | 0520 | 0553 | 1435 | 1509 |
| 9 | 0519 | 0552 | 1440 | 1513 |
| 13 | 0518 | 0550 | 1445 | 1517 |
| 17 | 0516 | 0548 | 1450 | 1522 |
| 21 | 0513 | 0545 | 1456 | 1528 |
| 25 | 0509 | 0541 | 1502 | 1533 |
| 29 | 0505 | 0537 | 1508 | 1539 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY 1 | 0219 | 0252 | 1721 | 1753 |
| 5 | 0212 | 0245 | 1726 | 1759 |
| 9 | 0206 | 0239 | 1732 | 1805 |
| 13 | 0200 | 0234 | 1737 | 1811 |
| 17 | 0154 | 0229 | 1742 | 1817 |
| 21 | 0149 | 0225 | 1747 | 1822 |
| 25 | 0145 | 0221 | 1751 | 1827 |
| 29 | 0141 | 0217 | 1755 | 1832 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT 1 | 0338 | 0406 | 1551 | 1620 |
| 5 | 0343 | 0412 | 1543 | 1612 |
| 9 | 0348 | 0417 | 1535 | 1604 |
| 13 | 0354 | 0423 | 1528 | 1557 |
| 17 | 0359 | 0429 | 1520 | 1549 |
| 21 | 0405 | 0434 | 1513 | 1542 |
| 25 | 0410 | 0440 | 1506 | 1536 |
| 29 | 0416 | 0446 | 1459 | 1529 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB 2 | 0501 | 0532 | 1514 | 1545 |
| 6 | 0456 | 0526 | 1520 | 1550 |
| 10 | 0450 | 0520 | 1526 | 1556 |
| 14 | 0444 | 0514 | 1532 | 1602 |
| 18 | 0438 | 0508 | 1538 | 1608 |
| 22 | 0431 | 0501 | 1544 | 1614 |
| 26 | 0424 | 0453 | 1550 | 1620 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN 2 | 0138 | 0215 | 1759 | 1836 |
| 6 | 0135 | 0213 | 1803 | 1840 |
| 10 | 0134 | 0211 | 1805 | 1843 |
| 14 | 0133 | 0211 | 1808 | 1846 |
| 18 | 0133 | 0211 | 1810 | 1848 |
| 22 | 0133 | 0211 | 1811 | 1849 |
| 26 | 0135 | 0213 | 1811 | 1849 |
| 30 | 0137 | 0215 | 1811 | 1849 |



IASI / Iasi-Sud - LRS
470929N 0273815E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0138 | 0215 | 1810 | 1848 |
| 5 | 0141 | 0218 | 1809 | 1847 |
| 9 | 0144 | 0221 | 1807 | 1844 |
| 13 | 0148 | 0225 | 1805 | 1841 |
| 17 | 0153 | 0229 | 1801 | 1838 |
| 21 | 0158 | 0233 | 1758 | 1833 |
| 25 | 0203 | 0238 | 1753 | 1828 |
| 29 | 0208 | 0243 | 1748 | 1823 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0422 | 0452 | 1453 | 1524 |
| 6 | 0427 | 0458 | 1447 | 1518 |
| 10 | 0433 | 0504 | 1442 | 1513 |
| 14 | 0438 | 0510 | 1437 | 1509 |
| 18 | 0444 | 0515 | 1433 | 1505 |
| 22 | 0449 | 0521 | 1429 | 1501 |
| 26 | 0454 | 0526 | 1426 | 1459 |
| 30 | 0459 | 0531 | 1424 | 1457 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0417 | 0446 | 1556 | 1625 |
| 6 | 0409 | 0438 | 1602 | 1631 |
| 10 | 0402 | 0431 | 1608 | 1637 |
| 14 | 0354 | 0423 | 1614 | 1643 |
| 18 | 0346 | 0415 | 1619 | 1648 |
| 22 | 0338 | 0407 | 1625 | 1654 |
| 26 | 0330 | 0359 | 1631 | 1700 |
| 30 | 0322 | 0351 | 1636 | 1705 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG 2 | 0214 | 0247 | 1743 | 1817 |
| 6 | 0219 | 0253 | 1737 | 1810 |
| 10 | 0225 | 0258 | 1731 | 1803 |
| 14 | 0231 | 0303 | 1724 | 1756 |
| 18 | 0237 | 0308 | 1717 | 1749 |
| 22 | 0242 | 0313 | 1710 | 1741 |
| 26 | 0248 | 0319 | 1703 | 1733 |
| 30 | 0254 | 0324 | 1655 | 1725 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC 4 | 0503 | 0536 | 1422 | 1455 |
| 8 | 0507 | 0540 | 1421 | 1455 |
| 12 | 0511 | 0544 | 1421 | 1455 |
| 16 | 0514 | 0547 | 1422 | 1455 |
| 20 | 0516 | 0550 | 1423 | 1457 |
| 24 | 0518 | 0552 | 1425 | 1459 |
| 28 | 0519 | 0553 | 1428 | 1501 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR 3 | 0313 | 0343 | 1642 | 1711 |
| 7 | 0305 | 0335 | 1647 | 1717 |
| 11 | 0257 | 0327 | 1653 | 1723 |
| 15 | 0249 | 0320 | 1659 | 1729 |
| 19 | 0241 | 0312 | 1704 | 1735 |
| 23 | 0234 | 0305 | 1710 | 1741 |
| 27 | 0226 | 0258 | 1715 | 1747 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP 3 | 0259 | 0329 | 1647 | 1717 |
| 7 | 0305 | 0335 | 1639 | 1709 |
| 11 | 0310 | 0340 | 1631 | 1701 |
| 15 | 0316 | 0345 | 1623 | 1652 |
| 19 | 0321 | 0350 | 1615 | 1644 |
| 23 | 0327 | 0356 | 1607 | 1636 |
| 27 | 0332 | 0401 | 1559 | 1628 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN 1 | 0520 | 0553 | 1431 | 1505 |
| 5 | 0520 | 0553 | 1435 | 1509 |
| 9 | 0519 | 0552 | 1440 | 1513 |
| 13 | 0518 | 0550 | 1445 | 1517 |
| 17 | 0515 | 0548 | 1450 | 1522 |
| 21 | 0513 | 0545 | 1456 | 1528 |
| 25 | 0509 | 0541 | 1502 | 1533 |
| 29 | 0505 | 0536 | 1508 | 1539 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY 1 | 0219 | 0252 | 1721 | 1753 |
| 5 | 0212 | 0245 | 1726 | 1759 |
| 9 | 0206 | 0239 | 1731 | 1805 |
| 13 | 0200 | 0234 | 1737 | 1811 |
| 17 | 0154 | 0229 | 1742 | 1816 |
| 21 | 0149 | 0225 | 1746 | 1822 |
| 25 | 0145 | 0221 | 1751 | 1827 |
| 29 | 0141 | 0217 | 1755 | 1832 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT 1 | 0337 | 0406 | 1551 | 1620 |
| 5 | 0343 | 0412 | 1543 | 1612 |
| 9 | 0348 | 0417 | 1535 | 1604 |
| 13 | 0354 | 0423 | 1528 | 1557 |
| 17 | 0359 | 0428 | 1520 | 1549 |
| 21 | 0405 | 0434 | 1513 | 1542 |
| 25 | 0410 | 0440 | 1506 | 1536 |
| 29 | 0416 | 0446 | 1459 | 1529 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB 2 | 0501 | 0532 | 1514 | 1545 |
| 6 | 0456 | 0526 | 1520 | 1550 |
| 10 | 0450 | 0520 | 1526 | 1556 |
| 14 | 0444 | 0514 | 1532 | 1602 |
| 18 | 0438 | 0507 | 1538 | 1608 |
| 22 | 0431 | 0500 | 1544 | 1614 |
| 26 | 0424 | 0453 | 1550 | 1620 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN 2 | 0138 | 0215 | 1759 | 1836 |
| 6 | 0135 | 0213 | 1802 | 1840 |
| 10 | 0134 | 0211 | 1805 | 1843 |
| 14 | 0133 | 0211 | 1808 | 1846 |
| 18 | 0133 | 0211 | 1809 | 1847 |
| 22 | 0133 | 0211 | 1810 | 1849 |
| 26 | 0135 | 0213 | 1811 | 1849 |
| 30 | 0137 | 0215 | 1811 | 1848 |

NAVODARI / Midia-Constanta - LRMC
441944N 0283925E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0148 | 0223 | 1755 | 1829 |
| 5 | 0151 | 0225 | 1754 | 1828 |
| 9 | 0154 | 0228 | 1752 | 1826 |
| 13 | 0158 | 0232 | 1750 | 1824 |
| 17 | 0202 | 0235 | 1747 | 1820 |
| 21 | 0206 | 0239 | 1744 | 1817 |
| 25 | 0211 | 0243 | 1740 | 1812 |
| 29 | 0215 | 0247 | 1735 | 1807 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0413 | 0442 | 1455 | 1524 |
| 6 | 0418 | 0447 | 1450 | 1519 |
| 10 | 0423 | 0452 | 1445 | 1514 |
| 14 | 0428 | 0458 | 1441 | 1510 |
| 18 | 0433 | 0503 | 1437 | 1507 |
| 22 | 0438 | 0508 | 1434 | 1504 |
| 26 | 0442 | 0513 | 1431 | 1502 |
| 30 | 0447 | 0518 | 1429 | 1500 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0412 | 0439 | 1555 | 1622 |
| 6 | 0405 | 0432 | 1600 | 1628 |
| 10 | 0358 | 0425 | 1605 | 1633 |
| 14 | 0351 | 0418 | 1610 | 1638 |
| 18 | 0343 | 0411 | 1615 | 1643 |
| 22 | 0336 | 0403 | 1620 | 1648 |
| 26 | 0328 | 0356 | 1625 | 1653 |
| 30 | 0321 | 0349 | 1630 | 1658 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG 2 | 0220 | 0252 | 1731 | 1802 |
| 6 | 0225 | 0256 | 1725 | 1756 |
| 10 | 0230 | 0301 | 1720 | 1750 |
| 14 | 0235 | 0305 | 1714 | 1744 |
| 18 | 0240 | 0310 | 1707 | 1737 |
| 22 | 0245 | 0315 | 1701 | 1730 |
| 26 | 0250 | 0319 | 1654 | 1723 |
| 30 | 0255 | 0324 | 1647 | 1716 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC 4 | 0451 | 0522 | 1428 | 1459 |
| 8 | 0455 | 0526 | 1427 | 1459 |
| 12 | 0458 | 0530 | 1427 | 1459 |
| 16 | 0501 | 0533 | 1428 | 1500 |
| 20 | 0504 | 0535 | 1430 | 1501 |
| 24 | 0506 | 0537 | 1432 | 1503 |
| 28 | 0507 | 0538 | 1434 | 1506 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR 3 | 0313 | 0341 | 1635 | 1703 |
| 7 | 0306 | 0334 | 1640 | 1708 |
| 11 | 0258 | 0327 | 1645 | 1714 |
| 15 | 0251 | 0320 | 1650 | 1719 |
| 19 | 0244 | 0313 | 1655 | 1724 |
| 23 | 0237 | 0307 | 1700 | 1729 |
| 27 | 0231 | 0300 | 1705 | 1735 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP 3 | 0300 | 0329 | 1640 | 1708 |
| 7 | 0305 | 0333 | 1633 | 1701 |
| 11 | 0310 | 0338 | 1625 | 1653 |
| 15 | 0315 | 0342 | 1618 | 1645 |
| 19 | 0320 | 0347 | 1610 | 1638 |
| 23 | 0324 | 0352 | 1603 | 1630 |
| 27 | 0329 | 0356 | 1555 | 1623 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN 1 | 0508 | 0539 | 1438 | 1509 |
| 5 | 0508 | 0539 | 1441 | 1513 |
| 9 | 0507 | 0538 | 1446 | 1517 |
| 13 | 0506 | 0537 | 1450 | 1521 |
| 17 | 0504 | 0535 | 1455 | 1525 |
| 21 | 0502 | 0532 | 1500 | 1530 |
| 25 | 0459 | 0529 | 1506 | 1535 |
| 29 | 0455 | 0525 | 1511 | 1540 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY 1 | 0224 | 0254 | 1710 | 1740 |
| 5 | 0218 | 0249 | 1714 | 1745 |
| 9 | 0212 | 0243 | 1719 | 1750 |
| 13 | 0207 | 0239 | 1724 | 1756 |
| 17 | 0202 | 0234 | 1728 | 1801 |
| 21 | 0158 | 0230 | 1733 | 1805 |
| 25 | 0154 | 0227 | 1737 | 1810 |
| 29 | 0150 | 0224 | 1741 | 1814 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT 1 | 0334 | 0401 | 1548 | 1615 |
| 5 | 0339 | 0406 | 1541 | 1608 |
| 9 | 0343 | 0411 | 1533 | 1601 |
| 13 | 0348 | 0416 | 1526 | 1554 |
| 17 | 0353 | 0421 | 1520 | 1547 |
| 21 | 0358 | 0426 | 1513 | 1541 |
| 25 | 0403 | 0431 | 1507 | 1535 |
| 29 | 0408 | 0436 | 1501 | 1529 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB 2 | 0451 | 0520 | 1517 | 1546 |
| 6 | 0447 | 0516 | 1522 | 1551 |
| 10 | 0442 | 0510 | 1528 | 1556 |
| 14 | 0436 | 0505 | 1533 | 1602 |
| 18 | 0431 | 0459 | 1539 | 1607 |
| 22 | 0425 | 0453 | 1544 | 1612 |
| 26 | 0418 | 0446 | 1550 | 1617 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN 2 | 0148 | 0222 | 1744 | 1818 |
| 6 | 0146 | 0220 | 1747 | 1821 |
| 10 | 0144 | 0219 | 1750 | 1824 |
| 14 | 0144 | 0218 | 1752 | 1827 |
| 18 | 0144 | 0219 | 1753 | 1828 |
| 22 | 0144 | 0219 | 1754 | 1829 |
| 26 | 0146 | 0220 | 1755 | 1830 |
| 30 | 0148 | 0222 | 1755 | 1829 |



ORADEA / Oradea - LROD
470131N 0215409E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| JUL | 1 | 0201 | 0239 | 1833 | 1910 |
| | 5 | 0204 | 0242 | 1831 | 1909 |
| | 9 | 0208 | 0245 | 1830 | 1906 |
| | 13 | 0212 | 0248 | 1827 | 1903 |
| | 17 | 0216 | 0252 | 1824 | 1900 |
| | 21 | 0221 | 0257 | 1820 | 1855 |
| | 25 | 0226 | 0301 | 1816 | 1851 |
| | 29 | 0232 | 0306 | 1811 | 1845 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| NOV | 2 | 0444 | 0514 | 1516 | 1547 |
| | 6 | 0450 | 0520 | 1511 | 1541 |
| | 10 | 0455 | 0526 | 1505 | 1536 |
| | 14 | 0501 | 0532 | 1500 | 1532 |
| | 18 | 0506 | 0538 | 1456 | 1528 |
| | 22 | 0511 | 0543 | 1453 | 1525 |
| | 26 | 0516 | 0549 | 1450 | 1522 |
| | 30 | 0521 | 0554 | 1447 | 1520 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| MAR | 2 | 0440 | 0509 | 1619 | 1648 |
| | 6 | 0432 | 0501 | 1625 | 1654 |
| | 10 | 0425 | 0453 | 1631 | 1700 |
| | 14 | 0417 | 0446 | 1637 | 1705 |
| | 18 | 0409 | 0438 | 1642 | 1711 |
| | 22 | 0401 | 0430 | 1648 | 1717 |
| | 26 | 0353 | 0422 | 1654 | 1723 |
| | 30 | 0345 | 0414 | 1659 | 1728 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| AUG | 2 | 0237 | 0311 | 1806 | 1839 |
| | 6 | 0243 | 0316 | 1800 | 1833 |
| | 10 | 0249 | 0321 | 1754 | 1826 |
| | 14 | 0254 | 0326 | 1747 | 1819 |
| | 18 | 0300 | 0331 | 1740 | 1811 |
| | 22 | 0306 | 0337 | 1733 | 1804 |
| | 26 | 0311 | 0342 | 1726 | 1756 |
| | 30 | 0317 | 0347 | 1718 | 1748 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| DEC | 4 | 0526 | 0559 | 1446 | 1519 |
| | 8 | 0530 | 0603 | 1445 | 1518 |
| | 12 | 0533 | 0607 | 1444 | 1518 |
| | 16 | 0536 | 0610 | 1445 | 1519 |
| | 20 | 0539 | 0612 | 1446 | 1520 |
| | 24 | 0541 | 0614 | 1449 | 1522 |
| | 28 | 0542 | 0615 | 1451 | 1525 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| APR | 3 | 0336 | 0406 | 1705 | 1734 |
| | 7 | 0328 | 0358 | 1710 | 1740 |
| | 11 | 0320 | 0350 | 1716 | 1746 |
| | 15 | 0312 | 0343 | 1721 | 1752 |
| | 19 | 0305 | 0335 | 1727 | 1758 |
| | 23 | 0257 | 0328 | 1732 | 1803 |
| | 27 | 0250 | 0321 | 1738 | 1809 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| SEP | 3 | 0323 | 0352 | 1710 | 1740 |
| | 7 | 0328 | 0358 | 1702 | 1732 |
| | 11 | 0334 | 0403 | 1654 | 1724 |
| | 15 | 0339 | 0408 | 1646 | 1715 |
| | 19 | 0344 | 0413 | 1638 | 1707 |
| | 23 | 0350 | 0419 | 1630 | 1659 |
| | 27 | 0355 | 0424 | 1622 | 1651 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| JAN | 1 | 0543 | 0616 | 1455 | 1528 |
| | 5 | 0542 | 0616 | 1459 | 1532 |
| | 9 | 0542 | 0615 | 1503 | 1536 |
| | 13 | 0540 | 0613 | 1508 | 1541 |
| | 17 | 0538 | 0610 | 1513 | 1546 |
| | 21 | 0535 | 0607 | 1519 | 1551 |
| | 25 | 0532 | 0603 | 1525 | 1556 |
| | 29 | 0528 | 0559 | 1531 | 1602 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| MAY | 1 | 0243 | 0315 | 1743 | 1815 |
| | 5 | 0236 | 0309 | 1749 | 1821 |
| | 9 | 0229 | 0303 | 1754 | 1827 |
| | 13 | 0223 | 0257 | 1759 | 1833 |
| | 17 | 0218 | 0252 | 1804 | 1839 |
| | 21 | 0213 | 0248 | 1809 | 1844 |
| | 25 | 0208 | 0244 | 1813 | 1849 |
| | 29 | 0205 | 0241 | 1818 | 1854 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| OCT | 1 | 0400 | 0429 | 1614 | 1643 |
| | 5 | 0406 | 0435 | 1606 | 1635 |
| | 9 | 0411 | 0440 | 1558 | 1627 |
| | 13 | 0417 | 0446 | 1551 | 1620 |
| | 17 | 0422 | 0451 | 1543 | 1612 |
| | 21 | 0428 | 0457 | 1536 | 1605 |
| | 25 | 0433 | 0503 | 1529 | 1559 |
| | 29 | 0439 | 0509 | 1523 | 1553 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| FEB | 2 | 0523 | 0554 | 1537 | 1608 |
| | 6 | 0518 | 0549 | 1543 | 1614 |
| | 10 | 0513 | 0543 | 1549 | 1619 |
| | 14 | 0507 | 0537 | 1555 | 1625 |
| | 18 | 0501 | 0530 | 1601 | 1631 |
| | 22 | 0454 | 0523 | 1608 | 1637 |
| | 26 | 0447 | 0516 | 1614 | 1643 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| JUN | 2 | 0201 | 0238 | 1821 | 1858 |
| | 6 | 0159 | 0236 | 1825 | 1902 |
| | 10 | 0157 | 0235 | 1828 | 1905 |
| | 14 | 0156 | 0234 | 1830 | 1908 |
| | 18 | 0156 | 0234 | 1832 | 1910 |
| | 22 | 0157 | 0235 | 1833 | 1911 |
| | 26 | 0158 | 0236 | 1833 | 1911 |
| | 30 | 0201 | 0238 | 1833 | 1911 |

ORADEA / SMURD BH 2 - LRHO
470351N 0215715E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| JUL | 1 | 0201 | 0239 | 1833 | 1910 |
| | 5 | 0204 | 0241 | 1831 | 1909 |
| | 9 | 0207 | 0244 | 1830 | 1906 |
| | 13 | 0211 | 0248 | 1827 | 1903 |
| | 17 | 0216 | 0252 | 1824 | 1900 |
| | 21 | 0221 | 0256 | 1820 | 1855 |
| | 25 | 0226 | 0301 | 1816 | 1850 |
| | 29 | 0231 | 0306 | 1811 | 1845 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| NOV | 2 | 0444 | 0514 | 1516 | 1546 |
| | 6 | 0450 | 0520 | 1510 | 1541 |
| | 10 | 0455 | 0526 | 1505 | 1536 |
| | 14 | 0501 | 0532 | 1500 | 1531 |
| | 18 | 0506 | 0538 | 1456 | 1528 |
| | 22 | 0511 | 0543 | 1452 | 1524 |
| | 26 | 0516 | 0549 | 1449 | 1522 |
| | 30 | 0521 | 0554 | 1447 | 1520 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| MAR | 2 | 0440 | 0509 | 1619 | 1648 |
| | 6 | 0432 | 0501 | 1625 | 1654 |
| | 10 | 0424 | 0453 | 1631 | 1700 |
| | 14 | 0417 | 0445 | 1637 | 1705 |
| | 18 | 0409 | 0437 | 1642 | 1711 |
| | 22 | 0401 | 0429 | 1648 | 1717 |
| | 26 | 0352 | 0421 | 1653 | 1722 |
| | 30 | 0344 | 0414 | 1659 | 1728 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| AUG | 2 | 0237 | 0311 | 1805 | 1839 |
| | 6 | 0243 | 0316 | 1800 | 1833 |
| | 10 | 0248 | 0321 | 1753 | 1826 |
| | 14 | 0254 | 0326 | 1747 | 1819 |
| | 18 | 0300 | 0331 | 1740 | 1811 |
| | 22 | 0305 | 0336 | 1733 | 1804 |
| | 26 | 0311 | 0342 | 1725 | 1756 |
| | 30 | 0317 | 0347 | 1718 | 1748 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| DEC | 4 | 0525 | 0559 | 1445 | 1518 |
| | 8 | 0530 | 0603 | 1444 | 1518 |
| | 12 | 0533 | 0607 | 1444 | 1518 |
| | 16 | 0536 | 0610 | 1445 | 1518 |
| | 20 | 0539 | 0612 | 1446 | 1520 |
| | 24 | 0541 | 0614 | 1448 | 1522 |
| | 28 | 0542 | 0615 | 1451 | 1525 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| APR | 3 | 0336 | 0406 | 1704 | 1734 |
| | 7 | 0328 | 0358 | 1710 | 1740 |
| | 11 | 0320 | 0350 | 1716 | 1746 |
| | 15 | 0312 | 0342 | 1721 | 1751 |
| | 19 | 0304 | 0335 | 1727 | 1757 |
| | 23 | 0257 | 0328 | 1732 | 1803 |
| | 27 | 0249 | 0321 | 1738 | 1809 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| SEP | 3 | 0322 | 0352 | 1710 | 1740 |
| | 7 | 0328 | 0357 | 1702 | 1732 |
| | 11 | 0333 | 0403 | 1654 | 1723 |
| | 15 | 0339 | 0408 | 1646 | 1715 |
| | 19 | 0344 | 0413 | 1638 | 1707 |
| | 23 | 0349 | 0418 | 1630 | 1659 |
| | 27 | 0355 | 0424 | 1622 | 1651 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| JAN | 1 | 0542 | 0616 | 1454 | 1528 |
| | 5 | 0542 | 0616 | 1458 | 1532 |
| | 9 | 0542 | 0614 | 1503 | 1536 |
| | 13 | 0540 | 0613 | 1508 | 1540 |
| | 17 | 0538 | 0610 | 1513 | 1545 |
| | 21 | 0535 | 0607 | 1519 | 1551 |
| | 25 | 0532 | 0603 | 1525 | 1556 |
| | 29 | 0528 | 0559 | 1531 | 1602 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| MAY | 1 | 0242 | 0314 | 1743 | 1815 |
| | 5 | 0235 | 0308 | 1749 | 1821 |
| | 9 | 0229 | 0302 | 1754 | 1827 |
| | 13 | 0223 | 0257 | 1759 | 1833 |
| | 17 | 0217 | 0252 | 1804 | 1839 |
| | 21 | 0212 | 0248 | 1809 | 1844 |
| | 25 | 0208 | 0244 | 1813 | 1849 |
| | 29 | 0204 | 0241 | 1818 | 1854 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| OCT | 1 | 0400 | 0429 | 1614 | 1642 |
| | 5 | 0406 | 0434 | 1606 | 1635 |
| | 9 | 0411 | 0440 | 1558 | 1627 |
| | 13 | 0416 | 0445 | 1550 | 1619 |
| | 17 | 0422 | 0451 | 1543 | 1612 |
| | 21 | 0427 | 0457 | 1536 | 1605 |
| | 25 | 0433 | 0503 | 1529 | 1559 |
| | 29 | 0439 | 0508 | 1522 | 1552 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| FEB | 2 | 0523 | 0554 | 1537 | 1607 |
| | 6 | 0518 | 0549 | 1543 | 1613 |
| | 10 | 0513 | 0543 | 1549 | 1619 |
| | 14 | 0507 | 0537 | 1555 | 1625 |
| | 18 | 0500 | 0530 | 1601 | 1631 |
| | 22 | 0454 | 0523 | 1607 | 1637 |
| | 26 | 0447 | 0516 | 1613 | 1642 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| JUN | 2 | 0201 | 0238 | 1821 | 1858 |
| | 6 | 0159 | 0236 | 1825 | 1902 |
| | 10 | 0157 | 0235 | 1828 | 1905 |
| | 14 | 0156 | 0234 | 1830 | 1908 |
| | 18 | 0156 | 0234 | 1832 | 1910 |
| | 22 | 0157 | 0235 | 1833 | 1911 |
| | 26 | 0158 | 0236 | 1833 | |



OSORHEI / DOGARU - LRDD
470330N 0220442E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0200 | 0238 | 1832 | 1910 |
| 5 | 0203 | 0241 | 1831 | 1908 |
| 9 | 0207 | 0244 | 1829 | 1906 |
| 13 | 0211 | 0248 | 1826 | 1903 |
| 17 | 0216 | 0251 | 1823 | 1859 |
| 21 | 0220 | 0256 | 1819 | 1855 |
| 25 | 0226 | 0300 | 1815 | 1850 |
| 29 | 0231 | 0305 | 1810 | 1844 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0444 | 0514 | 1516 | 1546 |
| 6 | 0449 | 0520 | 1510 | 1540 |
| 10 | 0455 | 0526 | 1505 | 1535 |
| 14 | 0500 | 0532 | 1500 | 1531 |
| 18 | 0506 | 0537 | 1455 | 1527 |
| 22 | 0511 | 0543 | 1452 | 1524 |
| 26 | 0516 | 0548 | 1449 | 1521 |
| 30 | 0521 | 0553 | 1446 | 1519 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0439 | 0508 | 1619 | 1648 |
| 6 | 0432 | 0500 | 1625 | 1653 |
| 10 | 0424 | 0453 | 1630 | 1659 |
| 14 | 0416 | 0445 | 1636 | 1705 |
| 18 | 0408 | 0437 | 1642 | 1710 |
| 22 | 0400 | 0429 | 1647 | 1716 |
| 26 | 0352 | 0421 | 1653 | 1722 |
| 30 | 0344 | 0413 | 1658 | 1728 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG 2 | 0236 | 0310 | 1805 | 1839 |
| 6 | 0242 | 0315 | 1759 | 1832 |
| 10 | 0248 | 0320 | 1753 | 1825 |
| 14 | 0254 | 0325 | 1746 | 1818 |
| 18 | 0259 | 0331 | 1739 | 1811 |
| 22 | 0305 | 0336 | 1732 | 1803 |
| 26 | 0311 | 0341 | 1725 | 1755 |
| 30 | 0316 | 0346 | 1717 | 1747 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC 4 | 0525 | 0558 | 1445 | 1518 |
| 8 | 0529 | 0602 | 1444 | 1517 |
| 12 | 0533 | 0606 | 1444 | 1517 |
| 16 | 0536 | 0609 | 1444 | 1518 |
| 20 | 0538 | 0612 | 1446 | 1519 |
| 24 | 0540 | 0614 | 1448 | 1521 |
| 28 | 0541 | 0615 | 1451 | 1524 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR 3 | 0336 | 0405 | 1704 | 1733 |
| 7 | 0328 | 0357 | 1710 | 1739 |
| 11 | 0320 | 0350 | 1715 | 1745 |
| 15 | 0312 | 0342 | 1721 | 1751 |
| 19 | 0304 | 0335 | 1726 | 1757 |
| 23 | 0256 | 0327 | 1732 | 1803 |
| 27 | 0249 | 0321 | 1737 | 1809 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP 3 | 0322 | 0352 | 1709 | 1739 |
| 7 | 0327 | 0357 | 1702 | 1731 |
| 11 | 0333 | 0402 | 1654 | 1723 |
| 15 | 0338 | 0407 | 1646 | 1715 |
| 19 | 0344 | 0413 | 1637 | 1706 |
| 23 | 0349 | 0418 | 1629 | 1658 |
| 27 | 0354 | 0423 | 1621 | 1650 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN 1 | 0542 | 0615 | 1454 | 1527 |
| 5 | 0542 | 0615 | 1458 | 1531 |
| 9 | 0541 | 0614 | 1502 | 1535 |
| 13 | 0540 | 0612 | 1507 | 1540 |
| 17 | 0537 | 0610 | 1513 | 1545 |
| 21 | 0535 | 0607 | 1518 | 1550 |
| 25 | 0531 | 0603 | 1524 | 1556 |
| 29 | 0527 | 0558 | 1530 | 1601 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY 1 | 0242 | 0314 | 1743 | 1815 |
| 5 | 0235 | 0308 | 1748 | 1821 |
| 9 | 0229 | 0302 | 1753 | 1827 |
| 13 | 0223 | 0257 | 1759 | 1833 |
| 17 | 0217 | 0252 | 1804 | 1838 |
| 21 | 0212 | 0247 | 1808 | 1844 |
| 25 | 0208 | 0243 | 1813 | 1849 |
| 29 | 0204 | 0240 | 1817 | 1853 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT 1 | 0400 | 0429 | 1613 | 1642 |
| 5 | 0405 | 0434 | 1605 | 1634 |
| 9 | 0410 | 0439 | 1558 | 1626 |
| 13 | 0416 | 0445 | 1550 | 1619 |
| 17 | 0421 | 0451 | 1542 | 1612 |
| 21 | 0427 | 0456 | 1535 | 1605 |
| 25 | 0432 | 0502 | 1528 | 1558 |
| 29 | 0438 | 0508 | 1522 | 1552 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB 2 | 0523 | 0553 | 1536 | 1607 |
| 6 | 0518 | 0548 | 1542 | 1613 |
| 10 | 0512 | 0542 | 1548 | 1619 |
| 14 | 0506 | 0536 | 1555 | 1624 |
| 18 | 0500 | 0529 | 1601 | 1630 |
| 22 | 0453 | 0523 | 1607 | 1636 |
| 26 | 0446 | 0515 | 1613 | 1642 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN 2 | 0201 | 0237 | 1821 | 1858 |
| 6 | 0158 | 0235 | 1824 | 1902 |
| 10 | 0156 | 0234 | 1827 | 1905 |
| 14 | 0156 | 0233 | 1829 | 1907 |
| 18 | 0155 | 0233 | 1831 | 1909 |
| 22 | 0156 | 0234 | 1832 | 1910 |
| 26 | 0157 | 0235 | 1833 | 1911 |
| 30 | 0200 | 0237 | 1832 | 1910 |

PIATRA NEAMT / Zanesti-Neamt - LRZN
465037N 0263331E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0144 | 0221 | 1813 | 1851 |
| 5 | 0147 | 0224 | 1812 | 1849 |
| 9 | 0150 | 0227 | 1810 | 1847 |
| 13 | 0154 | 0230 | 1808 | 1844 |
| 17 | 0159 | 0234 | 1805 | 1840 |
| 21 | 0203 | 0239 | 1801 | 1836 |
| 25 | 0209 | 0243 | 1756 | 1831 |
| 29 | 0214 | 0248 | 1752 | 1826 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0425 | 0455 | 1458 | 1528 |
| 6 | 0431 | 0501 | 1452 | 1523 |
| 10 | 0436 | 0507 | 1447 | 1518 |
| 14 | 0442 | 0513 | 1442 | 1514 |
| 18 | 0447 | 0519 | 1438 | 1510 |
| 22 | 0452 | 0524 | 1435 | 1506 |
| 26 | 0457 | 0530 | 1432 | 1504 |
| 30 | 0502 | 0535 | 1429 | 1502 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0421 | 0450 | 1601 | 1630 |
| 6 | 0414 | 0442 | 1607 | 1635 |
| 10 | 0406 | 0435 | 1612 | 1641 |
| 14 | 0358 | 0427 | 1618 | 1647 |
| 18 | 0350 | 0419 | 1624 | 1652 |
| 22 | 0342 | 0411 | 1629 | 1658 |
| 26 | 0334 | 0403 | 1635 | 1704 |
| 30 | 0326 | 0355 | 1640 | 1709 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG 2 | 0219 | 0253 | 1746 | 1820 |
| 6 | 0225 | 0258 | 1741 | 1813 |
| 10 | 0231 | 0303 | 1734 | 1807 |
| 14 | 0236 | 0308 | 1728 | 1800 |
| 18 | 0242 | 0313 | 1721 | 1752 |
| 22 | 0248 | 0318 | 1714 | 1745 |
| 26 | 0253 | 0324 | 1707 | 1737 |
| 30 | 0259 | 0329 | 1659 | 1729 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC 4 | 0506 | 0539 | 1428 | 1500 |
| 8 | 0510 | 0544 | 1427 | 1500 |
| 12 | 0514 | 0547 | 1427 | 1500 |
| 16 | 0517 | 0550 | 1427 | 1501 |
| 20 | 0520 | 0553 | 1429 | 1502 |
| 24 | 0521 | 0555 | 1431 | 1504 |
| 28 | 0523 | 0556 | 1433 | 1507 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR 3 | 0318 | 0347 | 1646 | 1715 |
| 7 | 0310 | 0340 | 1651 | 1721 |
| 11 | 0302 | 0332 | 1657 | 1727 |
| 15 | 0254 | 0324 | 1702 | 1733 |
| 19 | 0246 | 0317 | 1708 | 1738 |
| 23 | 0239 | 0310 | 1713 | 1744 |
| 27 | 0232 | 0303 | 1719 | 1750 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP 3 | 0304 | 0334 | 1651 | 1721 |
| 7 | 0310 | 0339 | 1643 | 1713 |
| 11 | 0315 | 0344 | 1636 | 1705 |
| 15 | 0321 | 0350 | 1627 | 1656 |
| 19 | 0326 | 0355 | 1619 | 1648 |
| 23 | 0331 | 0400 | 1611 | 1640 |
| 27 | 0337 | 0405 | 1603 | 1632 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN 1 | 0523 | 0557 | 1437 | 1510 |
| 5 | 0523 | 0556 | 1441 | 1514 |
| 9 | 0522 | 0555 | 1445 | 1518 |
| 13 | 0521 | 0553 | 1450 | 1523 |
| 17 | 0519 | 0551 | 1455 | 1528 |
| 21 | 0516 | 0548 | 1501 | 1533 |
| 25 | 0513 | 0544 | 1507 | 1538 |
| 29 | 0509 | 0540 | 1513 | 1544 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY 1 | 0225 | 0257 | 1724 | 1756 |
| 5 | 0218 | 0250 | 1730 | 1802 |
| 9 | 0211 | 0245 | 1735 | 1808 |
| 13 | 0206 | 0239 | 1740 | 1814 |
| 17 | 0200 | 0234 | 1745 | 1819 |
| 21 | 0155 | 0230 | 1750 | 1825 |
| 25 | 0151 | 0226 | 1754 | 1830 |
| 29 | 0147 | 0223 | 1758 | 1834 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT 1 | 0342 | 0410 | 1555 | 1624 |
| 5 | 0347 | 0416 | 1548 | 1616 |
| 9 | 0352 | 0421 | 1540 | 1609 |
| 13 | 0358 | 0427 | 1532 | 1601 |
| 17 | 0403 | 0432 | 1525 | 1554 |
| 21 | 0409 | 0438 | 1518 | 1547 |
| 25 | 0414 | 0444 | 1511 | 1540 |
| 29 | 0420 | 0450 | 1504 | 1534 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB 2 | 0504 | 0535 | 1519 | 1549 |
| 6 | 0459 | 0530 | 1525 | 1555 |
| 10 | 0454 | 0524 | 1531 | 1601 |
| 14 | 0448 | 0518 | 1537 | 1607 |
| 18 | 0442 | 0511 | 1543 | 1613 |
| 22 | 0435 | 0504 | 1549 | 1618 |
| 26 | 0428 | 0457 | 1555 | 1624 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN 2 | 0144 | 0220 | 1802 | 1839 |
| 6 | 0141 | 0218 | 1805 | 1842 |
| 10 | 0140 | 0217 | 1808 | 1846 |
| 14 | 0139 | 0216 | 1811 | 1848 |
| 18 | 0139 | 0216 | 1812 | 1850 |
| 22 | 0139 | 0217 | 1813 | 1851 |
| 26 | 0141 | 0218 | 1814 | 1851 |
| 30 | 0143 | 0220 | 1813 | 1851 |



PITESTI / Geamana - LRPT
444903N 0245352E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0201 | 0236 | 1812 | 1847 |
| 5 | 0204 | 0239 | 1811 | 1845 |
| 9 | 0207 | 0241 | 1809 | 1843 |
| 13 | 0211 | 0245 | 1807 | 1841 |
| 17 | 0215 | 0248 | 1804 | 1837 |
| 21 | 0219 | 0252 | 1800 | 1834 |
| 25 | 0224 | 0257 | 1756 | 1829 |
| 29 | 0229 | 0301 | 1752 | 1824 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0429 | 0458 | 1509 | 1538 |
| 6 | 0434 | 0503 | 1504 | 1533 |
| 10 | 0439 | 0509 | 1459 | 1529 |
| 14 | 0444 | 0514 | 1455 | 1524 |
| 18 | 0449 | 0519 | 1451 | 1521 |
| 22 | 0454 | 0525 | 1447 | 1518 |
| 26 | 0459 | 0530 | 1445 | 1516 |
| 30 | 0503 | 0534 | 1443 | 1514 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0427 | 0455 | 1609 | 1637 |
| 6 | 0420 | 0448 | 1615 | 1643 |
| 10 | 0413 | 0440 | 1620 | 1648 |
| 14 | 0405 | 0433 | 1625 | 1653 |
| 18 | 0358 | 0426 | 1630 | 1658 |
| 22 | 0350 | 0418 | 1636 | 1703 |
| 26 | 0343 | 0411 | 1641 | 1708 |
| 30 | 0335 | 0403 | 1646 | 1714 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG 2 | 0234 | 0305 | 1747 | 1819 |
| 6 | 0239 | 0310 | 1742 | 1813 |
| 10 | 0244 | 0315 | 1736 | 1807 |
| 14 | 0249 | 0319 | 1730 | 1800 |
| 18 | 0254 | 0324 | 1723 | 1753 |
| 22 | 0259 | 0329 | 1717 | 1746 |
| 26 | 0304 | 0334 | 1710 | 1739 |
| 30 | 0310 | 0338 | 1703 | 1732 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC 4 | 0507 | 0539 | 1441 | 1513 |
| 8 | 0511 | 0543 | 1441 | 1512 |
| 12 | 0515 | 0546 | 1441 | 1512 |
| 16 | 0518 | 0549 | 1441 | 1513 |
| 20 | 0520 | 0552 | 1443 | 1515 |
| 24 | 0522 | 0554 | 1445 | 1517 |
| 28 | 0523 | 0555 | 1448 | 1519 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR 3 | 0328 | 0356 | 1651 | 1719 |
| 7 | 0320 | 0349 | 1656 | 1724 |
| 11 | 0313 | 0341 | 1701 | 1729 |
| 15 | 0305 | 0334 | 1706 | 1735 |
| 19 | 0258 | 0327 | 1711 | 1740 |
| 23 | 0251 | 0321 | 1716 | 1746 |
| 27 | 0244 | 0314 | 1721 | 1751 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP 3 | 0315 | 0343 | 1655 | 1724 |
| 7 | 0320 | 0348 | 1648 | 1716 |
| 11 | 0324 | 0353 | 1641 | 1709 |
| 15 | 0329 | 0357 | 1633 | 1701 |
| 19 | 0334 | 0402 | 1625 | 1653 |
| 23 | 0339 | 0407 | 1618 | 1646 |
| 27 | 0344 | 0412 | 1610 | 1638 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN 1 | 0524 | 0556 | 1451 | 1523 |
| 5 | 0524 | 0556 | 1455 | 1526 |
| 9 | 0523 | 0555 | 1459 | 1530 |
| 13 | 0522 | 0553 | 1504 | 1535 |
| 17 | 0520 | 0551 | 1509 | 1539 |
| 21 | 0518 | 0548 | 1514 | 1544 |
| 25 | 0515 | 0545 | 1519 | 1549 |
| 29 | 0511 | 0541 | 1525 | 1555 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY 1 | 0238 | 0308 | 1726 | 1756 |
| 5 | 0231 | 0303 | 1731 | 1802 |
| 9 | 0226 | 0257 | 1736 | 1807 |
| 13 | 0220 | 0252 | 1740 | 1812 |
| 17 | 0215 | 0248 | 1745 | 1818 |
| 21 | 0211 | 0244 | 1749 | 1822 |
| 25 | 0207 | 0240 | 1753 | 1827 |
| 29 | 0203 | 0237 | 1757 | 1831 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT 1 | 0349 | 0416 | 1603 | 1630 |
| 5 | 0354 | 0421 | 1555 | 1623 |
| 9 | 0359 | 0426 | 1548 | 1616 |
| 13 | 0403 | 0431 | 1541 | 1609 |
| 17 | 0408 | 0437 | 1534 | 1602 |
| 21 | 0414 | 0442 | 1527 | 1556 |
| 25 | 0419 | 0447 | 1521 | 1549 |
| 29 | 0424 | 0452 | 1515 | 1544 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB 2 | 0507 | 0537 | 1530 | 1600 |
| 6 | 0503 | 0532 | 1536 | 1605 |
| 10 | 0458 | 0526 | 1542 | 1611 |
| 14 | 0452 | 0521 | 1547 | 1616 |
| 18 | 0446 | 0515 | 1553 | 1621 |
| 22 | 0440 | 0508 | 1559 | 1627 |
| 26 | 0434 | 0502 | 1604 | 1632 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN 2 | 0200 | 0235 | 1801 | 1835 |
| 6 | 0158 | 0233 | 1804 | 1839 |
| 10 | 0157 | 0232 | 1807 | 1842 |
| 14 | 0156 | 0232 | 1809 | 1844 |
| 18 | 0156 | 0232 | 1810 | 1846 |
| 22 | 0157 | 0232 | 1811 | 1847 |
| 26 | 0158 | 0234 | 1812 | 1847 |
| 30 | 0200 | 0235 | 1812 | 1847 |

PLOIESTI / Gheorghe Valentin Bibescu - Ploiesti - LRPW
445525N 0255748E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0156 | 0231 | 1808 | 1843 |
| 5 | 0159 | 0234 | 1807 | 1842 |
| 9 | 0202 | 0237 | 1805 | 1840 |
| 13 | 0206 | 0240 | 1803 | 1837 |
| 17 | 0210 | 0244 | 1800 | 1834 |
| 21 | 0214 | 0248 | 1756 | 1830 |
| 25 | 0219 | 0252 | 1752 | 1825 |
| 29 | 0224 | 0256 | 1748 | 1820 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0425 | 0454 | 1505 | 1534 |
| 6 | 0430 | 0459 | 1459 | 1529 |
| 10 | 0435 | 0505 | 1454 | 1524 |
| 14 | 0440 | 0510 | 1450 | 1520 |
| 18 | 0445 | 0515 | 1446 | 1516 |
| 22 | 0450 | 0521 | 1443 | 1513 |
| 26 | 0455 | 0526 | 1440 | 1511 |
| 30 | 0459 | 0530 | 1438 | 1509 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0423 | 0450 | 1605 | 1633 |
| 6 | 0416 | 0443 | 1610 | 1638 |
| 10 | 0408 | 0436 | 1616 | 1643 |
| 14 | 0401 | 0429 | 1621 | 1649 |
| 18 | 0354 | 0421 | 1626 | 1654 |
| 22 | 0346 | 0414 | 1631 | 1659 |
| 26 | 0339 | 0406 | 1636 | 1704 |
| 30 | 0331 | 0359 | 1641 | 1710 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG 2 | 0229 | 0301 | 1743 | 1815 |
| 6 | 0234 | 0305 | 1738 | 1809 |
| 10 | 0239 | 0310 | 1732 | 1803 |
| 14 | 0244 | 0315 | 1726 | 1756 |
| 18 | 0250 | 0320 | 1719 | 1749 |
| 22 | 0255 | 0324 | 1713 | 1742 |
| 26 | 0300 | 0329 | 1706 | 1735 |
| 30 | 0305 | 0334 | 1659 | 1728 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC 4 | 0503 | 0535 | 1437 | 1508 |
| 8 | 0507 | 0539 | 1436 | 1508 |
| 12 | 0511 | 0543 | 1436 | 1508 |
| 16 | 0514 | 0546 | 1437 | 1509 |
| 20 | 0516 | 0548 | 1438 | 1510 |
| 24 | 0518 | 0550 | 1440 | 1512 |
| 28 | 0519 | 0551 | 1443 | 1515 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR 3 | 0323 | 0351 | 1647 | 1715 |
| 7 | 0316 | 0344 | 1652 | 1720 |
| 11 | 0308 | 0337 | 1657 | 1725 |
| 15 | 0301 | 0330 | 1702 | 1731 |
| 19 | 0254 | 0323 | 1707 | 1736 |
| 23 | 0246 | 0316 | 1712 | 1742 |
| 27 | 0240 | 0310 | 1717 | 1747 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP 3 | 0310 | 0339 | 1651 | 1720 |
| 7 | 0315 | 0343 | 1644 | 1712 |
| 11 | 0320 | 0348 | 1636 | 1705 |
| 15 | 0325 | 0353 | 1629 | 1657 |
| 19 | 0330 | 0358 | 1621 | 1649 |
| 23 | 0335 | 0402 | 1614 | 1641 |
| 27 | 0340 | 0407 | 1606 | 1634 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN 1 | 0520 | 0552 | 1446 | 1518 |
| 5 | 0520 | 0552 | 1450 | 1522 |
| 9 | 0520 | 0551 | 1454 | 1526 |
| 13 | 0518 | 0549 | 1459 | 1530 |
| 17 | 0516 | 0547 | 1504 | 1535 |
| 21 | 0514 | 0544 | 1509 | 1540 |
| 25 | 0511 | 0541 | 1515 | 1545 |
| 29 | 0507 | 0537 | 1520 | 1550 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY 1 | 0233 | 0304 | 1722 | 1753 |
| 5 | 0227 | 0258 | 1727 | 1758 |
| 9 | 0221 | 0253 | 1732 | 1803 |
| 13 | 0215 | 0248 | 1736 | 1809 |
| 17 | 0210 | 0243 | 1741 | 1814 |
| 21 | 0206 | 0239 | 1745 | 1819 |
| 25 | 0202 | 0236 | 1750 | 1823 |
| 29 | 0158 | 0233 | 1753 | 1828 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT 1 | 0344 | 0412 | 1558 | 1626 |
| 5 | 0349 | 0417 | 1551 | 1619 |
| 9 | 0354 | 0422 | 1544 | 1612 |
| 13 | 0359 | 0427 | 1537 | 1605 |
| 17 | 0404 | 0432 | 1530 | 1558 |
| 21 | 0409 | 0438 | 1523 | 1551 |
| 25 | 0414 | 0443 | 1517 | 1545 |
| 29 | 0420 | 0448 | 1510 | 1539 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB 2 | 0503 | 0533 | 1526 | 1555 |
| 6 | 0459 | 0528 | 1532 | 1601 |
| 10 | 0453 | 0522 | 1537 | 1606 |
| 14 | 0448 | 0517 | 1543 | 1612 |
| 18 | 0442 | 0510 | 1549 | 1617 |
| 22 | 0436 | 0504 | 1554 | 1622 |
| 26 | 0429 | 0457 | 1600 | 1628 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN 2 | 0156 | 0230 | 1757 | 1832 |
| 6 | 0154 | 0229 | 1800 | 1835 |
| 10 | 0152 | 0227 | 1803 | 1838 |
| 14 | 0151 | 0227 | 1805 | 1840 |
| 18 | 0151 | 0227 | 1807 | 1842 |
| 22 | 0152 | 0228 | 1808 | 1843 |
| 26 | 0153 | 0229 | 1808 | 1844 |
| 30 | 0155 | 0231 | 1808 | 1843 |



SATU MARE / Satu Mare - LRSM
474212N 0225308E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0153 | 0232 | 1832 | 1910 |
| 5 | 0157 | 0235 | 1830 | 1909 |
| 9 | 0200 | 0238 | 1828 | 1906 |
| 13 | 0204 | 0242 | 1826 | 1903 |
| 17 | 0209 | 0246 | 1823 | 1859 |
| 21 | 0214 | 0250 | 1819 | 1855 |
| 25 | 0219 | 0255 | 1814 | 1850 |
| 29 | 0225 | 0300 | 1809 | 1844 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0441 | 0512 | 1511 | 1542 |
| 6 | 0447 | 0518 | 1505 | 1536 |
| 10 | 0453 | 0524 | 1500 | 1531 |
| 14 | 0458 | 0530 | 1455 | 1526 |
| 18 | 0504 | 0536 | 1450 | 1522 |
| 22 | 0509 | 0542 | 1446 | 1519 |
| 26 | 0514 | 0547 | 1443 | 1516 |
| 30 | 0519 | 0552 | 1441 | 1514 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0436 | 0505 | 1615 | 1644 |
| 6 | 0428 | 0458 | 1621 | 1650 |
| 10 | 0421 | 0450 | 1627 | 1656 |
| 14 | 0413 | 0442 | 1633 | 1702 |
| 18 | 0405 | 0434 | 1638 | 1708 |
| 22 | 0356 | 0426 | 1644 | 1713 |
| 26 | 0348 | 0417 | 1650 | 1719 |
| 30 | 0340 | 0409 | 1656 | 1725 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG 2 | 0231 | 0305 | 1804 | 1838 |
| 6 | 0236 | 0310 | 1758 | 1831 |
| 10 | 0242 | 0315 | 1751 | 1824 |
| 14 | 0248 | 0321 | 1745 | 1817 |
| 18 | 0254 | 0326 | 1738 | 1810 |
| 22 | 0300 | 0331 | 1730 | 1802 |
| 26 | 0306 | 0337 | 1723 | 1754 |
| 30 | 0312 | 0342 | 1715 | 1746 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC 4 | 0524 | 0557 | 1439 | 1513 |
| 8 | 0528 | 0602 | 1438 | 1512 |
| 12 | 0531 | 0605 | 1438 | 1512 |
| 16 | 0534 | 0609 | 1438 | 1513 |
| 20 | 0537 | 0611 | 1440 | 1514 |
| 24 | 0539 | 0613 | 1442 | 1516 |
| 28 | 0540 | 0614 | 1445 | 1519 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR 3 | 0331 | 0401 | 1701 | 1731 |
| 7 | 0323 | 0353 | 1707 | 1737 |
| 11 | 0315 | 0345 | 1713 | 1743 |
| 15 | 0307 | 0338 | 1718 | 1749 |
| 19 | 0259 | 0330 | 1724 | 1755 |
| 23 | 0251 | 0323 | 1730 | 1802 |
| 27 | 0244 | 0316 | 1735 | 1808 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP 3 | 0317 | 0348 | 1707 | 1737 |
| 7 | 0323 | 0353 | 1659 | 1729 |
| 11 | 0329 | 0358 | 1651 | 1721 |
| 15 | 0334 | 0404 | 1643 | 1712 |
| 19 | 0340 | 0409 | 1634 | 1704 |
| 23 | 0345 | 0415 | 1626 | 1655 |
| 27 | 0351 | 0420 | 1618 | 1647 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN 1 | 0541 | 0615 | 1448 | 1522 |
| 5 | 0541 | 0614 | 1452 | 1526 |
| 9 | 0540 | 0613 | 1457 | 1530 |
| 13 | 0538 | 0611 | 1502 | 1535 |
| 17 | 0536 | 0609 | 1507 | 1540 |
| 21 | 0533 | 0605 | 1513 | 1545 |
| 25 | 0529 | 0601 | 1519 | 1551 |
| 29 | 0525 | 0557 | 1525 | 1557 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY 1 | 0236 | 0309 | 1741 | 1814 |
| 5 | 0229 | 0303 | 1747 | 1820 |
| 9 | 0223 | 0257 | 1752 | 1826 |
| 13 | 0217 | 0251 | 1757 | 1832 |
| 17 | 0211 | 0246 | 1803 | 1838 |
| 21 | 0206 | 0242 | 1808 | 1843 |
| 25 | 0201 | 0238 | 1812 | 1849 |
| 29 | 0157 | 0234 | 1816 | 1854 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT 1 | 0356 | 0426 | 1610 | 1639 |
| 5 | 0402 | 0431 | 1602 | 1631 |
| 9 | 0407 | 0437 | 1554 | 1623 |
| 13 | 0413 | 0442 | 1546 | 1615 |
| 17 | 0419 | 0448 | 1538 | 1608 |
| 21 | 0424 | 0454 | 1531 | 1601 |
| 25 | 0430 | 0500 | 1524 | 1554 |
| 29 | 0436 | 0506 | 1517 | 1548 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB 2 | 0521 | 0552 | 1531 | 1602 |
| 6 | 0516 | 0546 | 1538 | 1608 |
| 10 | 0510 | 0540 | 1544 | 1614 |
| 14 | 0504 | 0534 | 1550 | 1620 |
| 18 | 0457 | 0527 | 1556 | 1626 |
| 22 | 0451 | 0520 | 1603 | 1632 |
| 26 | 0443 | 0513 | 1609 | 1638 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN 2 | 0154 | 0231 | 1820 | 1858 |
| 6 | 0151 | 0229 | 1824 | 1902 |
| 10 | 0150 | 0228 | 1827 | 1905 |
| 14 | 0149 | 0227 | 1829 | 1908 |
| 18 | 0148 | 0227 | 1831 | 1910 |
| 22 | 0149 | 0228 | 1832 | 1911 |
| 26 | 0150 | 0229 | 1832 | 1911 |
| 30 | 0153 | 0231 | 1832 | 1911 |

SIBIU / Sibiu - LRSB
454709N 0240508E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0159 | 0235 | 1819 | 1855 |
| 5 | 0202 | 0238 | 1818 | 1853 |
| 9 | 0205 | 0241 | 1816 | 1851 |
| 13 | 0209 | 0244 | 1813 | 1849 |
| 17 | 0214 | 0248 | 1810 | 1845 |
| 21 | 0218 | 0252 | 1807 | 1841 |
| 25 | 0223 | 0257 | 1803 | 1836 |
| 29 | 0228 | 0301 | 1758 | 1831 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0434 | 0503 | 1510 | 1540 |
| 6 | 0439 | 0509 | 1505 | 1535 |
| 10 | 0444 | 0514 | 1500 | 1530 |
| 14 | 0449 | 0520 | 1455 | 1526 |
| 18 | 0455 | 0525 | 1451 | 1522 |
| 22 | 0500 | 0531 | 1448 | 1519 |
| 26 | 0504 | 0536 | 1445 | 1516 |
| 30 | 0509 | 0541 | 1443 | 1515 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0430 | 0459 | 1612 | 1640 |
| 6 | 0423 | 0452 | 1617 | 1646 |
| 10 | 0416 | 0444 | 1623 | 1651 |
| 14 | 0408 | 0437 | 1628 | 1656 |
| 18 | 0401 | 0429 | 1634 | 1702 |
| 22 | 0353 | 0421 | 1639 | 1707 |
| 26 | 0345 | 0414 | 1644 | 1713 |
| 30 | 0337 | 0406 | 1650 | 1718 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG 2 | 0233 | 0306 | 1753 | 1826 |
| 6 | 0239 | 0311 | 1748 | 1819 |
| 10 | 0244 | 0316 | 1742 | 1813 |
| 14 | 0249 | 0320 | 1735 | 1806 |
| 18 | 0255 | 0325 | 1729 | 1759 |
| 22 | 0300 | 0330 | 1722 | 1752 |
| 26 | 0306 | 0335 | 1715 | 1744 |
| 30 | 0311 | 0340 | 1707 | 1737 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC 4 | 0513 | 0545 | 1441 | 1513 |
| 8 | 0517 | 0550 | 1441 | 1513 |
| 12 | 0521 | 0553 | 1440 | 1513 |
| 16 | 0524 | 0556 | 1441 | 1514 |
| 20 | 0526 | 0559 | 1443 | 1515 |
| 24 | 0528 | 0601 | 1445 | 1517 |
| 28 | 0529 | 0602 | 1447 | 1520 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR 3 | 0330 | 0358 | 1655 | 1723 |
| 7 | 0322 | 0351 | 1700 | 1729 |
| 11 | 0314 | 0343 | 1705 | 1735 |
| 15 | 0306 | 0336 | 1711 | 1740 |
| 19 | 0259 | 0329 | 1716 | 1746 |
| 23 | 0252 | 0322 | 1721 | 1751 |
| 27 | 0245 | 0315 | 1726 | 1757 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP 3 | 0316 | 0345 | 1700 | 1729 |
| 7 | 0321 | 0350 | 1652 | 1721 |
| 11 | 0326 | 0355 | 1645 | 1713 |
| 15 | 0332 | 0400 | 1637 | 1705 |
| 19 | 0337 | 0405 | 1629 | 1657 |
| 23 | 0342 | 0410 | 1621 | 1649 |
| 27 | 0347 | 0415 | 1613 | 1642 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN 1 | 0530 | 0602 | 1451 | 1523 |
| 5 | 0530 | 0602 | 1455 | 1527 |
| 9 | 0529 | 0601 | 1459 | 1531 |
| 13 | 0528 | 0600 | 1504 | 1535 |
| 17 | 0526 | 0557 | 1509 | 1540 |
| 21 | 0523 | 0555 | 1514 | 1545 |
| 25 | 0520 | 0551 | 1520 | 1550 |
| 29 | 0517 | 0547 | 1526 | 1556 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY 1 | 0238 | 0309 | 1731 | 1803 |
| 5 | 0231 | 0303 | 1737 | 1808 |
| 9 | 0225 | 0258 | 1742 | 1814 |
| 13 | 0220 | 0253 | 1747 | 1819 |
| 17 | 0214 | 0248 | 1751 | 1825 |
| 21 | 0210 | 0244 | 1756 | 1830 |
| 25 | 0206 | 0240 | 1800 | 1835 |
| 29 | 0202 | 0237 | 1804 | 1839 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT 1 | 0352 | 0420 | 1606 | 1634 |
| 5 | 0357 | 0425 | 1558 | 1626 |
| 9 | 0402 | 0430 | 1551 | 1619 |
| 13 | 0407 | 0436 | 1543 | 1612 |
| 17 | 0412 | 0441 | 1536 | 1605 |
| 21 | 0418 | 0446 | 1529 | 1558 |
| 25 | 0423 | 0452 | 1523 | 1552 |
| 29 | 0428 | 0457 | 1516 | 1546 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB 2 | 0512 | 0542 | 1531 | 1601 |
| 6 | 0507 | 0537 | 1537 | 1607 |
| 10 | 0502 | 0532 | 1543 | 1612 |
| 14 | 0457 | 0526 | 1549 | 1618 |
| 18 | 0450 | 0519 | 1555 | 1624 |
| 22 | 0444 | 0513 | 1601 | 1629 |
| 26 | 0437 | 0506 | 1606 | 1635 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN 2 | 0159 | 0234 | 1808 | 1843 |
| 6 | 0157 | 0233 | 1811 | 1847 |
| 10 | 0155 | 0231 | 1814 | 1850 |
| 14 | 0155 | 0231 | 1816 | 1852 |
| 18 | 0154 | 0231 | 1818 | 1854 |
| 22 | 0155 | 0232 | 1819 | 1855 |
| 26 | 0156 | 0233 | 1819 | 1856 |
| 30 | 0159 | 0235 | 1819 | 1855 |



SUCEAVA / Stefan cel Mare - Suceava - LRSV
474111N 0262116E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0140 | 0218 | 1818 | 1856 |
| 5 | 0143 | 0221 | 1816 | 1855 |
| 9 | 0146 | 0224 | 1815 | 1852 |
| 13 | 0151 | 0228 | 1812 | 1849 |
| 17 | 0155 | 0232 | 1809 | 1845 |
| 21 | 0200 | 0236 | 1805 | 1841 |
| 25 | 0206 | 0241 | 1800 | 1836 |
| 29 | 0211 | 0246 | 1755 | 1830 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0428 | 0458 | 1457 | 1528 |
| 6 | 0433 | 0504 | 1451 | 1522 |
| 10 | 0439 | 0510 | 1446 | 1517 |
| 14 | 0444 | 0516 | 1441 | 1513 |
| 18 | 0450 | 0522 | 1436 | 1508 |
| 22 | 0455 | 0528 | 1433 | 1505 |
| 26 | 0500 | 0533 | 1429 | 1502 |
| 30 | 0505 | 0538 | 1427 | 1500 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0422 | 0452 | 1601 | 1630 |
| 6 | 0415 | 0444 | 1607 | 1636 |
| 10 | 0407 | 0436 | 1613 | 1642 |
| 14 | 0359 | 0428 | 1619 | 1648 |
| 18 | 0351 | 0420 | 1625 | 1654 |
| 22 | 0343 | 0412 | 1630 | 1700 |
| 26 | 0334 | 0404 | 1636 | 1705 |
| 30 | 0326 | 0355 | 1642 | 1711 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG 2 | 0217 | 0251 | 1750 | 1824 |
| 6 | 0223 | 0256 | 1744 | 1817 |
| 10 | 0229 | 0301 | 1737 | 1810 |
| 14 | 0234 | 0307 | 1731 | 1803 |
| 18 | 0240 | 0312 | 1724 | 1756 |
| 22 | 0246 | 0318 | 1716 | 1748 |
| 26 | 0252 | 0323 | 1709 | 1740 |
| 30 | 0258 | 0328 | 1701 | 1732 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC 4 | 0510 | 0543 | 1425 | 1459 |
| 8 | 0514 | 0548 | 1424 | 1458 |
| 12 | 0517 | 0551 | 1424 | 1458 |
| 16 | 0521 | 0555 | 1425 | 1459 |
| 20 | 0523 | 0557 | 1426 | 1500 |
| 24 | 0525 | 0559 | 1428 | 1502 |
| 28 | 0526 | 0600 | 1431 | 1505 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR 3 | 0318 | 0347 | 1647 | 1717 |
| 7 | 0309 | 0339 | 1653 | 1723 |
| 11 | 0301 | 0332 | 1659 | 1729 |
| 15 | 0253 | 0324 | 1705 | 1735 |
| 19 | 0245 | 0316 | 1710 | 1741 |
| 23 | 0237 | 0309 | 1716 | 1748 |
| 27 | 0230 | 0302 | 1722 | 1754 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP 3 | 0304 | 0334 | 1653 | 1723 |
| 7 | 0309 | 0339 | 1645 | 1715 |
| 11 | 0315 | 0344 | 1637 | 1707 |
| 15 | 0320 | 0350 | 1629 | 1658 |
| 19 | 0326 | 0355 | 1621 | 1650 |
| 23 | 0331 | 0401 | 1612 | 1641 |
| 27 | 0337 | 0406 | 1604 | 1633 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN 1 | 0527 | 0601 | 1434 | 1508 |
| 5 | 0527 | 0600 | 1438 | 1512 |
| 9 | 0526 | 0559 | 1443 | 1516 |
| 13 | 0524 | 0557 | 1448 | 1521 |
| 17 | 0522 | 0555 | 1453 | 1526 |
| 21 | 0519 | 0551 | 1459 | 1531 |
| 25 | 0516 | 0548 | 1505 | 1537 |
| 29 | 0511 | 0543 | 1511 | 1543 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY 1 | 0223 | 0255 | 1727 | 1800 |
| 5 | 0216 | 0249 | 1733 | 1806 |
| 9 | 0209 | 0243 | 1738 | 1812 |
| 13 | 0203 | 0237 | 1744 | 1818 |
| 17 | 0157 | 0232 | 1749 | 1824 |
| 21 | 0152 | 0228 | 1754 | 1829 |
| 25 | 0147 | 0224 | 1758 | 1835 |
| 29 | 0143 | 0220 | 1803 | 1840 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT 1 | 0342 | 0412 | 1556 | 1625 |
| 5 | 0348 | 0417 | 1548 | 1617 |
| 9 | 0354 | 0423 | 1540 | 1609 |
| 13 | 0359 | 0429 | 1532 | 1602 |
| 17 | 0405 | 0434 | 1525 | 1554 |
| 21 | 0410 | 0440 | 1517 | 1547 |
| 25 | 0416 | 0446 | 1510 | 1540 |
| 29 | 0422 | 0452 | 1503 | 1534 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB 2 | 0507 | 0538 | 1517 | 1549 |
| 6 | 0502 | 0533 | 1524 | 1555 |
| 10 | 0456 | 0527 | 1530 | 1601 |
| 14 | 0450 | 0520 | 1536 | 1606 |
| 18 | 0444 | 0513 | 1543 | 1612 |
| 22 | 0437 | 0506 | 1549 | 1618 |
| 26 | 0430 | 0459 | 1555 | 1624 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN 2 | 0140 | 0218 | 1806 | 1844 |
| 6 | 0138 | 0216 | 1810 | 1848 |
| 10 | 0136 | 0214 | 1813 | 1851 |
| 14 | 0135 | 0214 | 1815 | 1854 |
| 18 | 0135 | 0214 | 1817 | 1856 |
| 22 | 0135 | 0214 | 1818 | 1857 |
| 26 | 0137 | 0216 | 1818 | 1857 |
| 30 | 0139 | 0217 | 1818 | 1857 |

TARGU MURES / Mureseni - LRMS
463200N 0243146E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0154 | 0231 | 1820 | 1857 |
| 5 | 0156 | 0233 | 1819 | 1856 |
| 9 | 0200 | 0236 | 1817 | 1853 |
| 13 | 0204 | 0240 | 1815 | 1850 |
| 17 | 0208 | 0244 | 1811 | 1847 |
| 21 | 0213 | 0248 | 1808 | 1843 |
| 25 | 0218 | 0252 | 1804 | 1838 |
| 29 | 0223 | 0257 | 1759 | 1832 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0433 | 0503 | 1507 | 1537 |
| 6 | 0438 | 0509 | 1501 | 1532 |
| 10 | 0444 | 0514 | 1456 | 1527 |
| 14 | 0449 | 0520 | 1451 | 1522 |
| 18 | 0455 | 0526 | 1447 | 1519 |
| 22 | 0500 | 0531 | 1444 | 1515 |
| 26 | 0505 | 0537 | 1441 | 1513 |
| 30 | 0509 | 0542 | 1438 | 1511 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0429 | 0458 | 1609 | 1638 |
| 6 | 0422 | 0450 | 1615 | 1644 |
| 10 | 0414 | 0443 | 1621 | 1649 |
| 14 | 0406 | 0435 | 1626 | 1655 |
| 18 | 0359 | 0427 | 1632 | 1700 |
| 22 | 0351 | 0419 | 1637 | 1706 |
| 26 | 0343 | 0411 | 1643 | 1712 |
| 30 | 0335 | 0404 | 1648 | 1717 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG 2 | 0229 | 0302 | 1754 | 1827 |
| 6 | 0234 | 0307 | 1748 | 1820 |
| 10 | 0240 | 0312 | 1742 | 1814 |
| 14 | 0245 | 0317 | 1735 | 1807 |
| 18 | 0251 | 0322 | 1728 | 1800 |
| 22 | 0257 | 0327 | 1721 | 1752 |
| 26 | 0302 | 0332 | 1714 | 1744 |
| 30 | 0308 | 0337 | 1707 | 1736 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC 4 | 0514 | 0546 | 1437 | 1509 |
| 8 | 0518 | 0550 | 1436 | 1509 |
| 12 | 0521 | 0554 | 1436 | 1509 |
| 16 | 0524 | 0557 | 1437 | 1510 |
| 20 | 0527 | 0600 | 1438 | 1511 |
| 24 | 0529 | 0602 | 1440 | 1513 |
| 28 | 0530 | 0603 | 1443 | 1516 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR 3 | 0327 | 0356 | 1654 | 1723 |
| 7 | 0319 | 0348 | 1659 | 1728 |
| 11 | 0311 | 0340 | 1705 | 1734 |
| 15 | 0303 | 0333 | 1710 | 1740 |
| 19 | 0255 | 0326 | 1715 | 1746 |
| 23 | 0248 | 0319 | 1721 | 1752 |
| 27 | 0241 | 0312 | 1726 | 1757 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP 3 | 0313 | 0342 | 1659 | 1729 |
| 7 | 0318 | 0348 | 1651 | 1720 |
| 11 | 0324 | 0353 | 1643 | 1712 |
| 15 | 0329 | 0358 | 1635 | 1704 |
| 19 | 0334 | 0403 | 1627 | 1656 |
| 23 | 0340 | 0408 | 1619 | 1648 |
| 27 | 0345 | 0413 | 1612 | 1640 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN 1 | 0530 | 0603 | 1446 | 1519 |
| 5 | 0530 | 0603 | 1450 | 1523 |
| 9 | 0530 | 0602 | 1455 | 1527 |
| 13 | 0528 | 0601 | 1459 | 1532 |
| 17 | 0526 | 0558 | 1505 | 1537 |
| 21 | 0524 | 0555 | 1510 | 1542 |
| 25 | 0520 | 0551 | 1516 | 1547 |
| 29 | 0516 | 0547 | 1522 | 1553 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY 1 | 0234 | 0306 | 1731 | 1803 |
| 5 | 0227 | 0259 | 1737 | 1809 |
| 9 | 0221 | 0254 | 1742 | 1815 |
| 13 | 0215 | 0248 | 1747 | 1821 |
| 17 | 0209 | 0244 | 1752 | 1826 |
| 21 | 0205 | 0239 | 1757 | 1831 |
| 25 | 0200 | 0236 | 1801 | 1836 |
| 29 | 0157 | 0232 | 1805 | 1841 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT 1 | 0350 | 0419 | 1604 | 1632 |
| 5 | 0355 | 0424 | 1556 | 1624 |
| 9 | 0401 | 0429 | 1548 | 1617 |
| 13 | 0406 | 0435 | 1541 | 1609 |
| 17 | 0411 | 0440 | 1533 | 1602 |
| 21 | 0417 | 0446 | 1526 | 1555 |
| 25 | 0422 | 0451 | 1520 | 1549 |
| 29 | 0427 | 0457 | 1513 | 1543 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB 2 | 0512 | 0542 | 1528 | 1558 |
| 6 | 0507 | 0537 | 1534 | 1604 |
| 10 | 0502 | 0531 | 1540 | 1610 |
| 14 | 0456 | 0525 | 1546 | 1615 |
| 18 | 0450 | 0519 | 1552 | 1621 |
| 22 | 0443 | 0512 | 1558 | 1627 |
| 26 | 0436 | 0505 | 1604 | 1632 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN 2 | 0154 | 0230 | 1809 | 1845 |
| 6 | 0151 | 0228 | 1812 | 1849 |
| 10 | 0150 | 0227 | 1815 | 1852 |
| 14 | 0149 | 0226 | 1817 | 1855 |
| 18 | 0149 | 0226 | 1819 | 1856 |
| 22 | 0149 | 0227 | 1820 | 1857 |
| 26 | 0151 | 0228 | 1820 | 1858 |
| 30 | 0153 | 0230 | 1820 | 1857 |



TARGU MURES / Transilvania - Targu Mures - LRTM
462804N 0242445E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | | | |
|---------------|--------------|------|------|------------|---------------|--------------|----|------|------------|---------------|--------------|-----|----|------------|------|------|------|
| JUL | 1 | 0154 | 0231 | 1820 | 1857 | NOV | 2 | 0433 | 0503 | 1508 | 1538 | MAR | 2 | 0429 | 0458 | 1610 | 1639 |
| | 5 | 0157 | 0234 | 1819 | 1856 | | 6 | 0439 | 0509 | 1502 | 1532 | | 6 | 0422 | 0451 | 1616 | 1644 |
| | 9 | 0201 | 0237 | 1817 | 1854 | | 10 | 0444 | 0515 | 1457 | 1527 | | 10 | 0415 | 0443 | 1621 | 1650 |
| | 13 | 0205 | 0241 | 1815 | 1851 | | 14 | 0450 | 0520 | 1452 | 1523 | | 14 | 0407 | 0435 | 1627 | 1655 |
| | 17 | 0209 | 0244 | 1812 | 1847 | | 18 | 0455 | 0526 | 1448 | 1519 | | 18 | 0359 | 0428 | 1632 | 1701 |
| | 21 | 0214 | 0249 | 1808 | 1843 | | 22 | 0500 | 0532 | 1444 | 1516 | | 22 | 0351 | 0420 | 1638 | 1706 |
| | 25 | 0219 | 0253 | 1804 | 1838 | | 26 | 0505 | 0537 | 1441 | 1513 | | 26 | 0343 | 0412 | 1643 | 1712 |
| | 29 | 0224 | 0258 | 1759 | 1833 | | 30 | 0510 | 0542 | 1439 | 1511 | | 30 | 0335 | 0404 | 1649 | 1718 |
| AUG | 2 | 0229 | 0303 | 1754 | 1827 | DEC | 4 | 0514 | 0546 | 1438 | 1510 | APR | 3 | 0327 | 0356 | 1654 | 1723 |
| | 6 | 0235 | 0307 | 1748 | 1821 | | 8 | 0518 | 0551 | 1437 | 1509 | | 7 | 0319 | 0349 | 1700 | 1729 |
| | 10 | 0240 | 0312 | 1742 | 1814 | | 12 | 0521 | 0554 | 1437 | 1510 | | 11 | 0311 | 0341 | 1705 | 1735 |
| | 14 | 0246 | 0318 | 1736 | 1807 | | 16 | 0524 | 0558 | 1437 | 1510 | | 15 | 0304 | 0334 | 1710 | 1740 |
| | 18 | 0252 | 0323 | 1729 | 1800 | | 20 | 0527 | 0600 | 1439 | 1512 | | 19 | 0256 | 0326 | 1716 | 1746 |
| | 22 | 0257 | 0328 | 1722 | 1752 | | 24 | 0529 | 0602 | 1441 | 1514 | | 23 | 0249 | 0319 | 1721 | 1752 |
| | 26 | 0303 | 0333 | 1715 | 1745 | | 28 | 0530 | 0603 | 1443 | 1517 | | 27 | 0241 | 0313 | 1726 | 1758 |
| | 30 | 0308 | 0338 | 1707 | 1737 | JAN | 1 | 0531 | 0604 | 1447 | 1520 | MAY | 1 | 0234 | 0306 | 1732 | 1804 |
| SEP | 3 | 0314 | 0343 | 1659 | 1729 | | 5 | 0531 | 0603 | 1451 | 1524 | | 5 | 0228 | 0300 | 1737 | 1809 |
| | 7 | 0319 | 0348 | 1652 | 1721 | | 9 | 0530 | 0602 | 1455 | 1528 | | 9 | 0221 | 0254 | 1742 | 1815 |
| | 11 | 0324 | 0353 | 1644 | 1713 | | 13 | 0529 | 0601 | 1500 | 1532 | | 13 | 0216 | 0249 | 1747 | 1821 |
| | 15 | 0330 | 0358 | 1636 | 1705 | | 17 | 0527 | 0558 | 1505 | 1537 | | 17 | 0210 | 0244 | 1752 | 1826 |
| | 19 | 0335 | 0403 | 1628 | 1657 | | 21 | 0524 | 0555 | 1511 | 1542 | | 21 | 0205 | 0240 | 1757 | 1832 |
| | 23 | 0340 | 0409 | 1620 | 1648 | | 25 | 0521 | 0552 | 1516 | 1548 | | 25 | 0201 | 0236 | 1801 | 1837 |
| | 27 | 0345 | 0414 | 1612 | 1640 | | 29 | 0517 | 0547 | 1522 | 1553 | | 29 | 0157 | 0233 | 1805 | 1841 |
| OCT | 1 | 0350 | 0419 | 1604 | 1633 | FEB | 2 | 0512 | 0543 | 1528 | 1559 | JUN | 2 | 0154 | 0230 | 1809 | 1845 |
| | 5 | 0356 | 0424 | 1556 | 1625 | | 6 | 0507 | 0537 | 1534 | 1604 | | 6 | 0152 | 0229 | 1812 | 1849 |
| | 9 | 0401 | 0430 | 1549 | 1617 | | 10 | 0502 | 0532 | 1540 | 1610 | | 10 | 0150 | 0227 | 1815 | 1852 |
| | 13 | 0406 | 0435 | 1541 | 1610 | | 14 | 0456 | 0526 | 1546 | 1616 | | 14 | 0150 | 0227 | 1818 | 1855 |
| | 17 | 0412 | 0441 | 1534 | 1603 | | 18 | 0450 | 0519 | 1552 | 1622 | | 18 | 0149 | 0227 | 1819 | 1856 |
| | 21 | 0417 | 0446 | 1527 | 1556 | | 22 | 0443 | 0512 | 1558 | 1627 | | 22 | 0150 | 0227 | 1820 | 1858 |
| | 25 | 0422 | 0452 | 1520 | 1549 | | 26 | 0437 | 0505 | 1604 | 1633 | | 26 | 0151 | 0229 | 1821 | 1858 |
| | 29 | 0428 | 0457 | 1514 | 1543 | | | | | | | | 30 | 0154 | 0231 | 1820 | 1857 |

TIMISOARA / Traian Vuia - LRTR
454835N 0212016E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | | | |
|---------------|--------------|------|------|------------|---------------|--------------|----|------|------------|---------------|--------------|-----|----|------------|------|------|------|
| JUL | 1 | 0210 | 0246 | 1830 | 1906 | NOV | 2 | 0445 | 0514 | 1521 | 1551 | MAR | 2 | 0441 | 0510 | 1623 | 1651 |
| | 5 | 0213 | 0249 | 1829 | 1905 | | 6 | 0450 | 0520 | 1516 | 1546 | | 6 | 0434 | 0503 | 1628 | 1657 |
| | 9 | 0216 | 0252 | 1827 | 1902 | | 10 | 0455 | 0525 | 1511 | 1541 | | 10 | 0427 | 0455 | 1634 | 1702 |
| | 13 | 0220 | 0255 | 1825 | 1900 | | 14 | 0500 | 0531 | 1506 | 1537 | | 14 | 0419 | 0448 | 1639 | 1707 |
| | 17 | 0224 | 0259 | 1822 | 1856 | | 18 | 0506 | 0536 | 1502 | 1533 | | 18 | 0412 | 0440 | 1645 | 1713 |
| | 21 | 0229 | 0303 | 1818 | 1852 | | 22 | 0511 | 0542 | 1459 | 1530 | | 22 | 0404 | 0432 | 1650 | 1718 |
| | 25 | 0234 | 0308 | 1814 | 1847 | | 26 | 0516 | 0547 | 1456 | 1527 | | 26 | 0356 | 0424 | 1655 | 1724 |
| | 29 | 0239 | 0312 | 1809 | 1842 | | 30 | 0520 | 0552 | 1454 | 1525 | | 30 | 0348 | 0417 | 1701 | 1729 |
| AUG | 2 | 0244 | 0317 | 1804 | 1837 | DEC | 4 | 0524 | 0556 | 1452 | 1524 | APR | 3 | 0340 | 0409 | 1706 | 1735 |
| | 6 | 0250 | 0322 | 1759 | 1831 | | 8 | 0528 | 0601 | 1451 | 1524 | | 7 | 0333 | 0402 | 1711 | 1740 |
| | 10 | 0255 | 0326 | 1753 | 1824 | | 12 | 0532 | 0604 | 1451 | 1524 | | 11 | 0325 | 0354 | 1716 | 1746 |
| | 14 | 0300 | 0331 | 1746 | 1817 | | 16 | 0535 | 0607 | 1452 | 1525 | | 15 | 0317 | 0347 | 1722 | 1751 |
| | 18 | 0306 | 0336 | 1740 | 1810 | | 20 | 0537 | 0610 | 1453 | 1526 | | 19 | 0310 | 0340 | 1727 | 1757 |
| | 22 | 0311 | 0341 | 1733 | 1803 | | 24 | 0539 | 0612 | 1456 | 1528 | | 23 | 0303 | 0333 | 1732 | 1802 |
| | 26 | 0317 | 0346 | 1726 | 1755 | | 28 | 0540 | 0613 | 1458 | 1531 | | 27 | 0256 | 0326 | 1737 | 1808 |
| | 30 | 0322 | 0351 | 1718 | 1748 | JAN | 1 | 0541 | 0614 | 1502 | 1534 | MAY | 1 | 0249 | 0320 | 1742 | 1814 |
| SEP | 3 | 0327 | 0356 | 1711 | 1740 | | 5 | 0541 | 0613 | 1505 | 1538 | | 5 | 0242 | 0314 | 1748 | 1819 |
| | 7 | 0332 | 0401 | 1703 | 1732 | | 9 | 0540 | 0612 | 1510 | 1542 | | 9 | 0236 | 0309 | 1753 | 1825 |
| | 11 | 0337 | 0406 | 1656 | 1724 | | 13 | 0539 | 0611 | 1515 | 1546 | | 13 | 0231 | 0303 | 1758 | 1830 |
| | 15 | 0343 | 0411 | 1648 | 1716 | | 17 | 0537 | 0609 | 1520 | 1551 | | 17 | 0225 | 0259 | 1802 | 1836 |
| | 19 | 0348 | 0416 | 1640 | 1708 | | 21 | 0535 | 0606 | 1525 | 1556 | | 21 | 0221 | 0255 | 1807 | 1841 |
| | 23 | 0353 | 0421 | 1632 | 1700 | | 25 | 0531 | 0602 | 1531 | 1601 | | 25 | 0216 | 0251 | 1811 | 1846 |
| | 27 | 0358 | 0426 | 1624 | 1652 | | 29 | 0528 | 0558 | 1536 | 1607 | | 29 | 0213 | 0248 | 1815 | 1850 |
| OCT | 1 | 0403 | 0431 | 1617 | 1645 | FEB | 2 | 0523 | 0553 | 1542 | 1612 | JUN | 2 | 0210 | 0245 | 1819 | 1854 |
| | 5 | 0408 | 0436 | 1609 | 1637 | | 6 | 0518 | 0548 | 1548 | 1618 | | 6 | 0208 | 0244 | 1822 | 1858 |
| | 9 | 0413 | 0441 | 1601 | 1630 | | 10 | 0513 | 0543 | 1554 | 1623 | | 10 | 0206 | 0242 | 1825 | 1901 |
| | 13 | 0418 | 0447 | 1554 | 1623 | | 14 | 0508 | 0537 | 1600 | 1629 | | 14 | 0205 | 0242 | 1827 | 1903 |
| | 17 | 0423 | 0452 | 1547 | 1616 | | 18 | 0502 | 0530 | 1606 | 1635 | | 18 | 0205 | 0242 | 1829 | 1905 |
| | 21 | 0429 | 0457 | 1540 | 1609 | | 22 | 0455 | 0524 | 1612 | 1640 | | 22 | 0206 | 0242 | 1830 | 1906 |
| | 25 | 0434 | 0503 | 1534 | 1602 | | 26 | 0448 | 0517 | 1617 | 1646 | | 26 | 0207 | 0244 | 1830 | 1907 |
| | 29 | 0439 | 0508 | 1527 | 1556 | | | | | | | | 30 | 0209 | 0246 | 1830 | 1906 |



TULCEA / Delta Dunarii Tulcea - LRTC
450346N 0284252E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0144 | 0220 | 1757 | 1833 |
| 5 | 0147 | 0222 | 1756 | 1831 |
| 9 | 0150 | 0225 | 1755 | 1829 |
| 13 | 0154 | 0229 | 1752 | 1827 |
| 17 | 0158 | 0232 | 1749 | 1823 |
| 21 | 0203 | 0236 | 1746 | 1819 |
| 25 | 0208 | 0240 | 1742 | 1815 |
| 29 | 0212 | 0245 | 1737 | 1810 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0414 | 0443 | 1453 | 1522 |
| 6 | 0419 | 0448 | 1448 | 1517 |
| 10 | 0424 | 0454 | 1443 | 1513 |
| 14 | 0429 | 0459 | 1439 | 1509 |
| 18 | 0434 | 0505 | 1435 | 1505 |
| 22 | 0439 | 0510 | 1431 | 1502 |
| 26 | 0444 | 0515 | 1429 | 1500 |
| 30 | 0449 | 0520 | 1427 | 1458 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0412 | 0440 | 1554 | 1622 |
| 6 | 0405 | 0433 | 1559 | 1627 |
| 10 | 0357 | 0425 | 1605 | 1632 |
| 14 | 0350 | 0418 | 1610 | 1638 |
| 18 | 0343 | 0410 | 1615 | 1643 |
| 22 | 0335 | 0403 | 1620 | 1648 |
| 26 | 0327 | 0355 | 1625 | 1653 |
| 30 | 0320 | 0348 | 1631 | 1659 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG 2 | 0217 | 0249 | 1732 | 1804 |
| 6 | 0223 | 0254 | 1727 | 1759 |
| 10 | 0228 | 0259 | 1721 | 1752 |
| 14 | 0233 | 0304 | 1715 | 1746 |
| 18 | 0238 | 0308 | 1709 | 1739 |
| 22 | 0243 | 0313 | 1702 | 1732 |
| 26 | 0249 | 0318 | 1655 | 1724 |
| 30 | 0254 | 0323 | 1648 | 1717 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC 4 | 0453 | 0524 | 1425 | 1457 |
| 8 | 0457 | 0528 | 1425 | 1456 |
| 12 | 0500 | 0532 | 1425 | 1457 |
| 16 | 0503 | 0535 | 1425 | 1457 |
| 20 | 0506 | 0538 | 1427 | 1459 |
| 24 | 0507 | 0540 | 1429 | 1501 |
| 28 | 0509 | 0541 | 1432 | 1504 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR 3 | 0312 | 0340 | 1636 | 1704 |
| 7 | 0304 | 0333 | 1641 | 1709 |
| 11 | 0257 | 0326 | 1646 | 1715 |
| 15 | 0249 | 0319 | 1651 | 1720 |
| 19 | 0242 | 0312 | 1656 | 1725 |
| 23 | 0235 | 0305 | 1701 | 1731 |
| 27 | 0228 | 0259 | 1706 | 1736 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP 3 | 0259 | 0328 | 1641 | 1709 |
| 7 | 0304 | 0332 | 1633 | 1701 |
| 11 | 0309 | 0337 | 1626 | 1654 |
| 15 | 0314 | 0342 | 1618 | 1646 |
| 19 | 0319 | 0347 | 1610 | 1638 |
| 23 | 0324 | 0351 | 1603 | 1630 |
| 27 | 0329 | 0356 | 1555 | 1623 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN 1 | 0509 | 0541 | 1435 | 1507 |
| 5 | 0509 | 0541 | 1439 | 1510 |
| 9 | 0509 | 0540 | 1443 | 1514 |
| 13 | 0508 | 0539 | 1448 | 1519 |
| 17 | 0506 | 0537 | 1453 | 1523 |
| 21 | 0503 | 0534 | 1458 | 1528 |
| 25 | 0500 | 0530 | 1503 | 1534 |
| 29 | 0457 | 0526 | 1509 | 1539 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY 1 | 0222 | 0252 | 1711 | 1742 |
| 5 | 0215 | 0247 | 1716 | 1747 |
| 9 | 0209 | 0241 | 1721 | 1753 |
| 13 | 0204 | 0236 | 1726 | 1758 |
| 17 | 0159 | 0232 | 1730 | 1803 |
| 21 | 0154 | 0228 | 1735 | 1808 |
| 25 | 0150 | 0224 | 1739 | 1813 |
| 29 | 0147 | 0221 | 1743 | 1817 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT 1 | 0333 | 0401 | 1547 | 1615 |
| 5 | 0338 | 0406 | 1540 | 1608 |
| 9 | 0343 | 0411 | 1533 | 1601 |
| 13 | 0348 | 0416 | 1525 | 1553 |
| 17 | 0353 | 0422 | 1518 | 1547 |
| 21 | 0358 | 0427 | 1512 | 1540 |
| 25 | 0404 | 0432 | 1505 | 1534 |
| 29 | 0409 | 0438 | 1459 | 1528 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB 2 | 0452 | 0522 | 1515 | 1544 |
| 6 | 0448 | 0517 | 1520 | 1550 |
| 10 | 0443 | 0512 | 1526 | 1555 |
| 14 | 0437 | 0506 | 1532 | 1600 |
| 18 | 0431 | 0500 | 1537 | 1606 |
| 22 | 0425 | 0453 | 1543 | 1611 |
| 26 | 0418 | 0447 | 1549 | 1617 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN 2 | 0144 | 0219 | 1746 | 1821 |
| 6 | 0142 | 0217 | 1750 | 1825 |
| 10 | 0140 | 0216 | 1752 | 1828 |
| 14 | 0140 | 0215 | 1754 | 1830 |
| 18 | 0140 | 0215 | 1756 | 1832 |
| 22 | 0140 | 0216 | 1757 | 1833 |
| 26 | 0142 | 0217 | 1758 | 1833 |
| 30 | 0144 | 0219 | 1757 | 1833 |

TUZLA / Tuzla - LRTZ
435903N 0283635E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0150 | 0224 | 1753 | 1828 |
| 5 | 0153 | 0227 | 1753 | 1827 |
| 9 | 0156 | 0230 | 1751 | 1825 |
| 13 | 0200 | 0233 | 1749 | 1822 |
| 17 | 0203 | 0236 | 1746 | 1819 |
| 21 | 0208 | 0240 | 1743 | 1815 |
| 25 | 0212 | 0244 | 1739 | 1811 |
| 29 | 0217 | 0249 | 1735 | 1806 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0413 | 0441 | 1456 | 1525 |
| 6 | 0418 | 0447 | 1451 | 1520 |
| 10 | 0423 | 0452 | 1446 | 1515 |
| 14 | 0428 | 0457 | 1442 | 1511 |
| 18 | 0433 | 0502 | 1438 | 1508 |
| 22 | 0437 | 0507 | 1435 | 1505 |
| 26 | 0442 | 0512 | 1432 | 1503 |
| 30 | 0446 | 0517 | 1431 | 1501 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0412 | 0439 | 1555 | 1623 |
| 6 | 0405 | 0432 | 1601 | 1628 |
| 10 | 0358 | 0425 | 1606 | 1633 |
| 14 | 0351 | 0418 | 1611 | 1638 |
| 18 | 0344 | 0411 | 1616 | 1643 |
| 22 | 0336 | 0403 | 1621 | 1648 |
| 26 | 0329 | 0356 | 1625 | 1653 |
| 30 | 0321 | 0349 | 1630 | 1658 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG 2 | 0222 | 0253 | 1730 | 1801 |
| 6 | 0227 | 0257 | 1725 | 1755 |
| 10 | 0232 | 0302 | 1719 | 1749 |
| 14 | 0237 | 0306 | 1713 | 1743 |
| 18 | 0242 | 0311 | 1707 | 1736 |
| 22 | 0246 | 0315 | 1700 | 1729 |
| 26 | 0251 | 0320 | 1654 | 1722 |
| 30 | 0256 | 0325 | 1647 | 1715 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC 4 | 0450 | 0521 | 1429 | 1500 |
| 8 | 0454 | 0525 | 1429 | 1500 |
| 12 | 0457 | 0529 | 1429 | 1500 |
| 16 | 0500 | 0532 | 1430 | 1501 |
| 20 | 0503 | 0534 | 1431 | 1502 |
| 24 | 0505 | 0536 | 1433 | 1504 |
| 28 | 0506 | 0537 | 1436 | 1507 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR 3 | 0314 | 0342 | 1635 | 1703 |
| 7 | 0307 | 0335 | 1640 | 1708 |
| 11 | 0259 | 0328 | 1645 | 1713 |
| 15 | 0252 | 0321 | 1650 | 1718 |
| 19 | 0245 | 0314 | 1655 | 1723 |
| 23 | 0238 | 0307 | 1659 | 1729 |
| 27 | 0232 | 0301 | 1704 | 1734 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP 3 | 0301 | 0329 | 1640 | 1708 |
| 7 | 0306 | 0334 | 1632 | 1700 |
| 11 | 0311 | 0338 | 1625 | 1653 |
| 15 | 0315 | 0343 | 1618 | 1645 |
| 19 | 0320 | 0347 | 1610 | 1638 |
| 23 | 0325 | 0352 | 1603 | 1630 |
| 27 | 0329 | 0357 | 1556 | 1623 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN 1 | 0507 | 0538 | 1439 | 1510 |
| 5 | 0507 | 0538 | 1443 | 1514 |
| 9 | 0506 | 0537 | 1447 | 1518 |
| 13 | 0505 | 0536 | 1451 | 1522 |
| 17 | 0504 | 0534 | 1456 | 1527 |
| 21 | 0501 | 0531 | 1501 | 1531 |
| 25 | 0458 | 0528 | 1507 | 1536 |
| 29 | 0455 | 0524 | 1512 | 1541 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY 1 | 0225 | 0255 | 1709 | 1739 |
| 5 | 0219 | 0250 | 1714 | 1744 |
| 9 | 0214 | 0245 | 1718 | 1749 |
| 13 | 0208 | 0240 | 1723 | 1755 |
| 17 | 0203 | 0235 | 1727 | 1759 |
| 21 | 0159 | 0232 | 1732 | 1804 |
| 25 | 0155 | 0228 | 1736 | 1809 |
| 29 | 0152 | 0225 | 1740 | 1813 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT 1 | 0334 | 0401 | 1548 | 1615 |
| 5 | 0339 | 0406 | 1541 | 1608 |
| 9 | 0343 | 0411 | 1534 | 1601 |
| 13 | 0348 | 0416 | 1527 | 1554 |
| 17 | 0353 | 0421 | 1520 | 1548 |
| 21 | 0358 | 0426 | 1514 | 1542 |
| 25 | 0403 | 0431 | 1507 | 1535 |
| 29 | 0408 | 0436 | 1502 | 1530 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB 2 | 0451 | 0520 | 1518 | 1547 |
| 6 | 0446 | 0515 | 1523 | 1552 |
| 10 | 0442 | 0510 | 1529 | 1557 |
| 14 | 0436 | 0504 | 1534 | 1602 |
| 18 | 0431 | 0458 | 1539 | 1607 |
| 22 | 0425 | 0452 | 1545 | 1613 |
| 26 | 0418 | 0446 | 1550 | 1618 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN 2 | 0149 | 0223 | 1743 | 1817 |
| 6 | 0147 | 0221 | 1746 | 1820 |
| 10 | 0146 | 0220 | 1749 | 1823 |
| 14 | 0145 | 0220 | 1751 | 1825 |
| 18 | 0145 | 0220 | 1752 | 1827 |
| 22 | 0146 | 0221 | 1753 | 1828 |
| 26 | 0147 | 0222 | 1754 | 1828 |
| 30 | 0149 | 0224 | 1754 | 1828 |

3. Meteorological observations and reports

| <i>Name of station/ Location indicator</i> | <i>Type & frequency of observation/ automatic observing equipment</i> | <i>Types of MET reports & availability of trend forecasts</i> | <i>Observation System & Site(s)</i> | <i>Hours of operation (UTC)</i> | <i>Climatological information</i> |
|---|---|---|---|---|---------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| ARAD/Arad LRAR | Half hourly plus special observations/AWOS | METAR, SPECI | SFC wind sensors 150m FM THR 09 and 380m FM THR 27 Ceilometer 400m BFR THR 27 RVR EQPT 370m and 1000m FM THR 27 Thermometer 380m FM THR 27 | H24 | Climatological tables AVBL |
| BACĂU/George Enescu LRBC | Half hourly plus special observations/AWOS | METAR, SPECI | SFC wind sensors THR 16, THR 34 Ceilometer THR 16, THR 34 RVR EQPT THR 16, MID, THR 34 Thermometer THR 16, THR 34 | H24 | Climatological tables AVBL |
| BAIA MARE/Maramureş LRBM | Half hourly plus special observations/AWOS | METAR, SPECI | SFC wind sensors 300m and 315m FM THR 09 Ceilometer 1038m BFR THR 09 RVR EQPT 300m and 1259m FM THR 09 Thermometer 300m FM THR 09 | H24 | Climatological tables AVBL |
| BRAŞOV/Braşov- Ghimbav LRBV | Half hourly plus special observations/AWOS | METAR, SPECI | SFC wind sensors 319m FM THR 03 and 327m FM THR 21 RVR EQPT 319m FM THR 03, 327m FM THR 21 and 1410m FM THR 21 Ceilometers 315m BFR THR 03 and 315m BFR THR 21 Thermometer 298m FM THR 03 | H24 | Climatological tables AVBL |
| BUCUREŞTI/Băneasa - Aurel Vlaicu LRBS | Half hourly plus special obscevnations/AWOS | METAR, SPECI, TREND,WS | SFC wind sensors 130m FM THR 07 and THR 25 RVR EQPT 300m, 1500m and 2700m FM THR 07 Ceilometers 1095m BFR THR 07 and 1140m BFR THR 25 Thermometer next to MET station | H24 | Climatological tables AVBL |
| BUCUREŞTI/Henri Coandă LROP | Half hourly plus special observations/AWOS | METAR, SPECI, TREND,WS | SFC wind sensors 130m FM THRs 08R, 08L, 26R and 26L RVR EQPT 300m, 1750m and 3200m FM THRs 08R and 08L Ceilometers 1094m BFR THR 08R, 1039m BFR THR 26L, 964m BFR THR 08L and 1116m BFR THR 26R Thermometer near TWY R | H24 | Climatological tables AVBL |
| CLUJ NAPOCA/ Avram Iancu LRCL | Half hourly plus special observations/AWOS | METAR, SPECI | SFC wind sensors 315m FM THR 07 and 165m FM THR 25 Ceilometers 627m BFR THR 07, 143m FM THR 25 RVR EQPT 323m FM THR 07, 150m and 908m FM THR 25 Thermometers 315m FM THR 07, 165m FM THR 25 | H24 | Climatological tables AVBL |
| CONSTANŢA/Mihail Kogalniceanu - Constanţa LRCK | Half hourly plus special observations/AWOS | METAR, SPECI , TREND, WS | SFC wind sensors 400m FM THR 18 and 408m FM THR 36 RVR EQPT 400m FM THR 18 and 408m and 1708m FM THR 36 Ceilometers 1197m BFR THR18 and 1067m BFR THR 36 Thermometer 172m BFR THR 36 | H24 | Climatological tables AVBL |
| CRAIOVA/Craiova LRCV | Half hourly plus special observations/AWOS METAR AUTO and SPECI AUTO outside aerodrome operational hours. | METAR, SPECI | SFC wind sensors 385m FM THR 08 and 376m FM THR 26 Ceilometers 350m FM THR 08 and 1174m BFR THR 26 RVR EQPT 370m FM THR 08, 376m FM THR 26 and 1026m FM THR 26 Thermometer 376m FM THR 26 | H24 | Climatological tables AVBL |

| 1 | 2 | 3 | 4 | 5 | 6 |
|--|--|---------------------|--|----------------------------|----------------------------|
| IAȘI/Iași LRIA | Half hourly plus special observations/AWOS | METAR, SPECI | SFC wind sensors 442m and 445m FM THR 14 and 298m FM THR 32 RVR EQPT 431m, 1200m and 2117m FM THR 14 Ceilometers 393m FM THR 14 and 276m FM THR 32 Thermometer 442m FM THR 14 | H24 | Climatological tables AVBL |
| ORADEA/Oradea LROD | Half hourly plus special observations/AWOS | METAR, SPECI | SFC wind sensors 82m and 390m FM THR 19 Ceilometer 1347m BFR THR 19 RVR EQPT 375m and 1130m FM THR 19 Thermometer 390m FM THR 19 | H24 | Climatological tables AVBL |
| SATU MARE/Satu Mare LRSM | Half hourly plus special observations/AWOS | METAR, SPECI | SFC wind sensors 399m FM THR 19 Ceilometer 1080m BFR THR 19 RVR EQPT 375m and 1250m FM THR 19 Thermometer 390m FM THR 19 | H24 | Climatological tables AVBL |
| SIBIU/Sibiu LRSB | Half hourly plus special observations/AWOS | METAR, SPECI, TREND | SFC wind sensors 374m and 389m FM THR 27 Ceilometer 344m FM THR 27 RVR EQPT 359m and 1050m FM THR 27 Thermometer 374m FM THR 27 | H24 | Climatological tables AVBL |
| SUCEAVA/Stefan cel Mare - Suceava LRSV | Half hourly plus special observations/AWOS | METAR, SPECI | SFC wind sensors 315m FM THR 16, 200m and 365m FM THR 34 Ceilometer 1021m BFR THR 34 RVR EQPT 350m, and 1100m and 1740m FM THR 34 Thermometer 365m FM THR 34 | H24 | Climatological tables AVBL |
| TÂRGU MUREȘ/ Transilvania - Târgu Mureș LRTM | Half hourly plus special observations/AWOS | METAR, SPECI | SFC wind sensors 362m and 358m FM THR 07 and 100m FM THR 25 Ceilometer 1500m BFR THR 07 RVR EQPT 340m and 1300m FM THR 07 Thermometer 362m FM THR 07 | H24 | Climatological tables AVBL |
| TIMIȘOARA/Traian Vuia LRTR | Half hourly plus special observations/AWOS | METAR, SPECI, TREND | SFC wind sensors 431m FM THR 11 and 437m FM THR 29 Ceilometers 905m BFR THR 11 and 1068m BFR THR 29 RVR EQPT 346m and 1674m FM THR 11 and 423m FM THR 29 Thermometer 438m FM THR 11 | H24 | Climatological tables AVBL |
| TULCEA/Delta Dunării LRTC | Half hourly plus special observations/AWOS METAR AUTO and SPECI AUTO outside aerodrome operational hours. | METAR, SPECI | SFC wind sensors 307m and 324m FM THR 34 Ceilometer 1115m BFR THR 34 RVR EQPT 292m and 1305m FM THR 34 Thermometer 307m FM THR 34 | See AD 2.17-3 LRTC AD 2.11 | Climatological tables AVBL |

Note: Aeronautical climatological information for the above-mentioned aerodromes is available on written request at the address mentioned in GEN 3.5, pt.1 (meteorological services). The climatological information is based on a period of 10 years of MET observations.

ARAD / Arad (LRAR)

1. Landing Charge

UNIT RATE: 4.50 EURO / tonne

2. Lighting charge

UNIT RATE: 1.75 EURO / tonne

3. Parking charge

3.a Parking charge for a period less than 24 hours UNIT RATE: 0.18 EURO / tonne / hour

3.b Parking charge for more than 24 hours related to the aircraft MTOW is:

| Charges | Aircraft MTOW |
|---------------|---------------|
| 50 EURO/24 h | 5.1-25 tonne |
| 100 EURO/24 h | 25.1-50 tonne |
| 150 EURO/24 h | > 50 tonne |

3.c For aircraft with MTOW between 0 and 5 tons for a period of more than 24 hours parking charge from 3.a will be applied.

3.d This charge is levied for each 24 hours. Any fraction of 24 hours will be charged according to the parking charge stipulated in sub-article 3.a

4. Passengers service

UNIT RATE: 2.35 EURO / passenger

SECURITY CHARGE: 1.30 EURO / passenger

TRANSIT OR TRANSFER: 1.20 EURO / passenger

5. Other charges

NIL

6. Exemptions

NIL

7. Reductions

| New route | LANDING TARIFF REDUCTIONS TABLE | | | | | | | |
|-----------|---------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | Landing no/month | Landing charge € | Landing no/month | Landing charge € | Landing no/month | Landing charge € | Landing no/month | Landing charge € |
| 1 | 4-8 | 4.05 | 9-12 | 3.83 | 13-16 | 3.60 | 17 and over 17 | 3.38 |
| 2 | 9-16 | 3.83 | 17-25 | 3.60 | 26-34 | 3.38 | 35 and over 35 | 3.15 |
| 3 | 13-25 | 3.60 | 26-38 | 3.38 | 39-51 | 3.15 | 52 and over 52 | 2.93 |
| 4 | 17-34 | 3.38 | 35-51 | 3.15 | 52-68 | 2.93 | 69 and over 69 | 2.70 |
| 5 | 22-42 | 3.15 | 43-64 | 2.93 | 65-86 | 2.70 | 87 and over 87 | 2.48 |
| 6 | 26-51 | 2.93 | 52-77 | 2.70 | 78-103 | 2.48 | 104 and over 104 | 2.25 |
| 7 | 30-60 | 2.70 | 61-90 | 2.48 | 91-120 | 2.25 | 121 and over 121 | 2.03 |
| 8 | 35-68 | 2.48 | 69-103 | 2.25 | 104-138 | 2.03 | 139 and over 139 | 1.80 |
| 9 | 39-77 | 2.25 | 78-116 | 2.03 | 117-155 | 1.80 | 156 and over 156 | 1.80 |

ARAD / Arad (LRAR)

1. Tariful de aterizare

NIVELUL UNITAR AL TARIFULUI: 4.50 EURO / tonă

2. Tariful de iluminare

NIVELUL UNITAR AL TARIFULUI: 1.75 EURO / tonă

3. Tariful de staționare

3.a Tarif de staționare aeronave pentru o perioadă mai mică de 24 ore NIVELUL UNITAR AL TARIFULUI: 0.18 EURO / tonă / oră

3.b Tarif de parcare aeronave pentru o perioadă mai mare de 24 ore tariful de parcare ale aeronavelor/24 ore se aplică în funcție de MTOW-ul aeronavelor, astfel:

| Tarif | MTOW aeronavă |
|---------------|---------------|
| 50 EURO/24 h | 5.1-25 tone |
| 100 EURO/24 h | 25.1-50 tone |
| 150 EURO/24 h | > 50 tone |

3.c Pentru aeronavele cu MTOW între 0 și 5 tone pentru o perioadă mai mare de 24 de ore se va aplica tarif de parcare de la 3.a.

3.d Tariful se percepe pentru un interval de 24 ore. Orice fracțiune a acestuia este considerată staționare și se taxează conform tarifului prevăzut la subpunctul 3.a.

4. Servicii pentru pasageri

NIVELUL UNITAR AL TARIFULUI: 2.35 EURO / pasager

TARIF DE SECURITATE: 1.30 EURO / pasager

TRANZIT SAU TRANSFER: 1.20 EURO / pasager

5. Alte tarife

NIL

6. Scutiri

NIL

7. Reduceri

| Rute noi | TABEL REDUCERI TARIF ATERIZARE | | | | | | | |
|----------|--------------------------------|---------------------|-----------------|---------------------|-----------------|---------------------|------------------|---------------------|
| | Aterizări /lună | Tarif (€/aterizare) | Aterizări /lună | Tarif (€/aterizare) | Aterizări /lună | Tarif (€/aterizare) | Aterizări/lună | Tarif (€/aterizare) |
| 1 | 4-8 | 4.05 | 9-12 | 3.83 | 13-16 | 3.60 | 17 și peste 17 | 3.38 |
| 2 | 9-16 | 3.83 | 17-25 | 3.60 | 26-34 | 3.38 | 35 și peste 35 | 3.15 |
| 3 | 13-25 | 3.60 | 26-38 | 3.38 | 39-51 | 3.15 | 52 și peste 52 | 2.93 |
| 4 | 17-34 | 3.38 | 35-51 | 3.15 | 52-68 | 2.93 | 69 și peste 69 | 2.70 |
| 5 | 22-42 | 3.15 | 43-64 | 2.93 | 65-86 | 2.70 | 87 și peste 87 | 2.48 |
| 6 | 26-51 | 2.93 | 52-77 | 2.70 | 78-103 | 2.48 | 104 și peste 104 | 2.25 |
| 7 | 30-60 | 2.70 | 61-90 | 2.48 | 91-120 | 2.25 | 121 și peste 121 | 2.03 |
| 8 | 35-68 | 2.48 | 69-103 | 2.25 | 104-138 | 2.03 | 139 și peste 139 | 1.80 |
| 9 | 39-77 | 2.25 | 78-116 | 2.03 | 117-155 | 1.80 | 156 și peste 156 | 1.80 |



TUZLA / Tuzla (LRTZ)

1. Landing Charge

UNIT RATE: 20.00 EURO / tonne – for aircraft with MTOW ≤2000 kg
3.00 EURO / tonne – for aircraft with MTOW >2000 kg

In case of operation outside the airport opening hours published in AIP Romania, the landing charge is increased by 100%.

2. Lighting charge

UNIT RATE: 20.00 EURO / tonne

3. Parking charge

UNIT RATE: 2.00 EURO / tone / hour

4. Passengers service

UNIT RATE: 10.00 EURO / passenger

SECURITY CHARGE: 2.00 EURO / passenger

In case of operation outside the working hours published in AIP Romania, the passenger service charge is increased by 100%.

5. Exemptions

NIL

6. Discounts

6.1 Discounts are granted only on the basis of an agreement/contract concluded between the airport administration and the aircraft operator, under the terms and for the period specified in the contract.

6.2 Aircraft arriving at the aerodrome for technical works at the Regional Air Services Technical Department, as well as aircraft for which CAMO services are provided by Regional Air Services SRL, may benefit from a negotiated aerodrome charge for the duration of their stay related to these activities.

6.3 Aircraft arriving at the aerodrome for minor works carried out by the Regional Air Services Technical Department shall benefit from a 50% discount in aerodrome charges for the duration of their stay related to these activities.

7. Methods of payment

7.1 The charges specified above shall be paid at the aerodrome in Romanian Lei (RON) or in any freely convertible currency accepted by the aerodrome.

7.2 Aerodrome charges shall be payable by bank transfer, based on invoices issued by Regional Air Services SRL and in accordance with the terms agreed in the operating agreement concluded between the aerodrome and the aircraft operator or owner, by bank card to the aerodrome's authorized personnel, or through GHCN (Ground Handling Charge Note), where applicable. Cash payments shall be accepted only on banking days.

7.3 The aerodrome operator has the right to detain a civil aircraft on the ground where the aerodrome charges have not been paid, until the outstanding amounts are settled or until sufficient security/guarantees are provided in relation to the claimed debt and accepted by the aerodrome operator, in accordance with the applicable regulations.

Other details: aeroport@regional-air.ro or office@regional-air.ro



TUZLA / Tuzla (LRTZ)

1. Tariful de aterizare

NIVELUL UNITAR AL TARIFULUI: 20.00 EURO / tonă – pentru aeronave cu MTOW ≤2000 kg
3.00 EURO / tonă – pentru aeronave cu MTOW >2000 kg

În cazul operării în afara programului de funcționare al aeroportului publicat în AIP România, tariful de aterizare se majorează cu 100%.

2. Tariful de iluminare

NIVELUL UNITAR AL TARIFULUI: 20.00 EURO / tonă

3. Tariful de staționare

NIVELUL UNITAR AL TARIFULUI: 2.00 EURO / tonă / oră

4. Servicii pentru pasageri

NIVELUL UNITAR AL TARIFULUI: 10.00 EURO / pasager

TARIF DE SECURITATE: 2.00 EURO / pasager

În cazul operării în afara programului de lucru publicat în AIP România, tariful pentru servicii pasageri se majorează cu 100%.

5. Scutiri

NIL

6. Reduceri

6.1 Reducerile se acordă exclusiv în baza unui acord/contract încheiat între administrația aeroportului și operatorul aeronavei, în condițiile și pe perioada prevăzute în contract.

6.2 Aeronavele care sosesc pe aerodrom pentru lucrări tehnice în cadrul Departamentului Tehnic al Regional Air Services, precum și aeronavele pentru care sunt furnizate servicii CAMO de către Regional Air Services SRL, pot beneficia de tarife aeroportuare negociate pentru perioada staționării aferente acestor activități.

6.3 Aeronavele care sosesc pe aerodrom pentru lucrări minore efectuate de Departamentul Tehnic al Regional Air Services beneficiază de o reducere de 50% a tarifelor aeroportuare pentru perioada staționării aferente acestor activități.

7. Metode de plată

7.1 Tarifele menționate mai sus se achită la aerodrom în lei (RON) sau în orice valută liber convertibilă acceptată de aerodrom.

7.2 Tarifele aeroportuare se achită prin transfer bancar, pe baza facturilor emise de Regional Air Services SRL și în conformitate cu termenii agreeți în acordul de operare încheiat între aerodrom și operatorul sau proprietarul aeronavei, prin card bancar către personalul autorizat al aerodromului sau prin GHCN (Ground Handling Charge Note), după caz. Plățile în numerar sunt acceptate doar în zilele bancare.

7.3 Operatorul aerodromului are dreptul de a reține la sol o aeronavă civilă în cazul în care tarifele aeroportuare nu au fost achitate, până la stingerea obligațiilor de plată sau până la constituirea unor garanții suficiente aferente debitului revendicat și acceptate de operatorul aerodromului, în conformitate cu reglementările aplicabile.

Alte detalii: aeroport@regional-air.ro sau office@regional-air.ro

LRCL AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

| | | | | | | |
|---------|---|---|---------|---|---------|---|
| 1 | <i>Apron designation, surface and strength</i> | <p>Surface: APRON 1: Concrete APRON 2: Concrete</p> <p>Strength: APRON 1: 66/R/B/W/T Stands: 1, 2, 7 46/R/B/W/T Stands: 3, 8, 9 123/R/B/W/T Stands: 4, 5, 6 102/R/B/W/T Stands: 23 APRON 2: 116/R/B/W/T Stands: 10, 11 94/R/B/W/T Stands: 14, 16, 18 117/R/B/W/T Stands: 13, 15, 17 39/R/A/W/T Stand: 12 102/R/B/W/T Stand: 19, 20,21,22</p> | | | | |
| 2 | <i>Taxiway designation, width, surface and strength</i> | <p>Width: TWY A, C, D, K: 18 M TWY B, E, H, J: 23 M TWY F, G: 25 M</p> <p>Surface: TWY A, B, C, D, E, F, G, H, J, K: Concrete</p> <p>Strength: TWY A: 46/R/B/W/T TWY B: 105/R/B/W/T TWY C: 94/R/B/W/T TWY D: 49/R/B/W/T TWY E: 115/R/B/W/T TWY F, H: 72/R/B/W/T TWY G: 114/R/B/W/T TWY J: 102/R/B/W/T TWY K: 123/R/B/W/T</p> | | | | |
| 3 | <i>ACL location and elevation</i> | At Aprons 1026 FT | | | | |
| 4 | <i>VOR checkpoints</i> | NIL | | | | |
| 5 | <i>INS checkpoints</i> | <table border="1"> <tr> <td data-bbox="719 945 911 1223">APRON 1</td> <td data-bbox="911 945 1525 1223"> <p>INS 1: 464700.03N 0234107.21E INS 2: 464700.28N 0234108.92E INS 3: 464700.53N 0234110.62E INS 4: 464700.36N 0234115.17E INS 5: 464700.48N 0234117.52E INS 6: 464700.60N 0234119.87E INS 7: 464657.15N 0234108.02E INS 8: 464657.50N 0234110.44E INS 9: 464658.13N 0234113.94E INS 23: 464700.72N 0234122.22E</p> </td> </tr> <tr> <td data-bbox="719 1223 911 1581">APRON 2</td> <td data-bbox="911 1223 1525 1581"> <p>INS 10: 464713.65N 0234136.81E INS 11: 464712.24N 0234137.49E INS 12: 464712.23N 0234153.54E INS 13: 464708.61N 0234139.20E INS 14: 464707.14N 0234132.65E INS 15: 464707.07N 0234139.94E INS 16: 464705.60N 0234133.39E INS 17: 464705.54N 0234140.68E INS 18: 464704.06N 0234134.12E INS 19: 464708.71N 0234142.85E INS 20: 464707.17N 0234143.59E INS 21: 464705.64N 0234144.34E INS 22: 464704.10N 0234145.08E</p> </td> </tr> </table> | APRON 1 | <p>INS 1: 464700.03N 0234107.21E INS 2: 464700.28N 0234108.92E INS 3: 464700.53N 0234110.62E INS 4: 464700.36N 0234115.17E INS 5: 464700.48N 0234117.52E INS 6: 464700.60N 0234119.87E INS 7: 464657.15N 0234108.02E INS 8: 464657.50N 0234110.44E INS 9: 464658.13N 0234113.94E INS 23: 464700.72N 0234122.22E</p> | APRON 2 | <p>INS 10: 464713.65N 0234136.81E INS 11: 464712.24N 0234137.49E INS 12: 464712.23N 0234153.54E INS 13: 464708.61N 0234139.20E INS 14: 464707.14N 0234132.65E INS 15: 464707.07N 0234139.94E INS 16: 464705.60N 0234133.39E INS 17: 464705.54N 0234140.68E INS 18: 464704.06N 0234134.12E INS 19: 464708.71N 0234142.85E INS 20: 464707.17N 0234143.59E INS 21: 464705.64N 0234144.34E INS 22: 464704.10N 0234145.08E</p> |
| APRON 1 | <p>INS 1: 464700.03N 0234107.21E INS 2: 464700.28N 0234108.92E INS 3: 464700.53N 0234110.62E INS 4: 464700.36N 0234115.17E INS 5: 464700.48N 0234117.52E INS 6: 464700.60N 0234119.87E INS 7: 464657.15N 0234108.02E INS 8: 464657.50N 0234110.44E INS 9: 464658.13N 0234113.94E INS 23: 464700.72N 0234122.22E</p> | | | | | |
| APRON 2 | <p>INS 10: 464713.65N 0234136.81E INS 11: 464712.24N 0234137.49E INS 12: 464712.23N 0234153.54E INS 13: 464708.61N 0234139.20E INS 14: 464707.14N 0234132.65E INS 15: 464707.07N 0234139.94E INS 16: 464705.60N 0234133.39E INS 17: 464705.54N 0234140.68E INS 18: 464704.06N 0234134.12E INS 19: 464708.71N 0234142.85E INS 20: 464707.17N 0234143.59E INS 21: 464705.64N 0234144.34E INS 22: 464704.10N 0234145.08E</p> | | | | | |
| 6 | <i>Remarks</i> | In emergency situation, the main area assigned as isolated aircraft position is Stand 12. In case of unavailability, the area assigned as isolated aircraft position will be established on site. | | | | |

LRCL AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

| | | |
|---|--|---|
| 1 | <i>Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system at aircraft stands</i> | Aircraft guidance to parking stand is provided by marshaller. Guidance yellow lights (LIH) to stands number: 4, 5, 6, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23 |
| 2 | <i>RWY and TWY markings and LGT</i> | <p>RWY:</p> <ul style="list-style-type: none"> - markings: Color white: designation, THR, TDZ, centre line, side stripes, aiming point, displaced THR 07; Color yellow: turnpad markings at THR 25 and THR07. - lights: centre line, edge, end, THR + WBAR, TDZ for RWY 25, turnpad at THR 25. <p>TWY A:</p> <ul style="list-style-type: none"> - markings: Color yellow: centre line, edges, intermediate holding position at the following intersection: TWY A/D, designation markings at TWY A/K intersection; - lights: centre line lights, edge lights, intermediate holding position lights (IHPL) at the following intersection: TWY A/D. <p>TWY B:</p> <ul style="list-style-type: none"> - markings: Color yellow: centre line, intermediate holding position at the following intersection: TWY B/E; - lights: centre line lights, intermediate holding position lights (IHPL) at the following intersections: TWY B/E. <p>TWY C:</p> <ul style="list-style-type: none"> - markings: Color yellow: centre line, edges, intermediate holding position at the following intersection: TWY C/D/E/G; - lights: centre line lights, intermediate holding position lights (IHPL) at the following intersections: TWY C/D/E/G. <p>TWY D:</p> <ul style="list-style-type: none"> - markings: Color yellow: centre line, edges, intermediate holding position at all TWY intersections; - lights: centre line lights, edge lights, intermediate holding position lights (IHPL) at all TWY intersections. <p>TWY E:</p> <ul style="list-style-type: none"> - markings: Color yellow: centre line, edges, intermediate holding position at all TWY intersections, designation markings at TWY C/D/E/G intersection; - lights: centre line lights, edge lights, intermediate holding position lights (IHPL) at all TWY intersections. <p>TWY F:</p> <ul style="list-style-type: none"> - markings: Color yellow: centre line, edges; - lights: centre line lights, edge lights. <p>TWY G:</p> <ul style="list-style-type: none"> - markings: Color yellow: centre line, edges, runway holding position, intermediate holding positions at all TWY intersections, enhanced centre line, runway designator; - lights: centre line lights, edge lights, intermediate holding positions lights (IHPL) at all TWY intersections. <p>TWY H:</p> <ul style="list-style-type: none"> - markings: Color yellow: centre line, edges, runway holding position, intermediate holding positions at all TWY intersections, enhanced centre line, runway designator; - lights: centre line lights, edge lights, intermediate holding positions lights (IHPL) at all TWY intersections. <p>TWY J:</p> <ul style="list-style-type: none"> - markings: Color yellow: centre line, edges, intermediate holding position, designation markings at all TWY intersections; - lights: centre line lights, edge lights, intermediate holding positions lights (IHPL) at all TWY intersections. <p>TWY K:</p> <ul style="list-style-type: none"> - markings: Color yellow: centre line; - lights: centre line lights. |
| 3 | <i>Stop bars and runway guard lights</i> | Red stop bar on TWY H and TWY G. Runway guard lights on TWY H and TWY G. STOP BAR lights shall remain continuously ON in all weather conditions, except when Cluj TWR has given approval for aircraft/vehicles to enter the runway. |
| 4 | <i>Other RWY protection measure</i> | NIL |
| 5 | <i>Remarks</i> | Illuminated wind direction indicators are located adjacent to TDZ of RWY 25, THR 07 and West edge of TWY A. THR 07 displaced 240M. |



| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----------|-----|--------------|-----|-------------------------|-----|-----|---|
| NDB | SIB | 381 KHz | H24 | 454706.0N 0240909.3E | NIL | NIL | Coverage 100 NM (declared) |
| NDB | TGM | 428 KHz | H24 | 462648.9N 0241823.7E | NIL | NIL | Coverage 80 NM (declared) |
| GPS NPA | - | 1575.420 MHz | H24 | NIL | NIL | NIL | Transmitting antennas are satellite based. Maintained by the U.S. Department of Defense. |
| EGNOS LPV | - | 1575.420 MHz | H24 | NIL | NIL | NIL | Transmitting antennas are satellite based. Maintained by the European Satellite Services Provider - ESSP. |

LRCL AD 2.20 LOCAL AERODROME REGULATIONS

1. Airport regulations / Reguli de aeroport

1. Operation with aircraft exceeding the certified design characteristics of the aerodrome (4C):

- must obtain prior approval from the aerodrome operator, request that must be sent to oper@airportcluj.ro, minimum 10 days before flight;
- in case of declared emergency situations, these may use LRCL without prior approval.

2. When landing on RWY 07, the above-mentioned aircraft, shall vacate runway following the standard taxi route ARRIVAL 1D.

3. When landing on RWY 25, the above-mentioned aircraft, shall vacate runway following the standard taxi route ARRIVAL 2D.

1. Operarea cu aeronave care depășesc caracteristicile de proiectare certificate ale aerodromului (4C):

- trebuie să obțină în prealabil aprobarea operatorului de aerodrom, solicitarea care va fi transmisă pe adresa oper@airportcluj.ro cu minim 10 zile înaintea zborului;
- în situații de urgență declarate, acestea pot utiliza LRCL fără aprobare prealabilă.

2. Când aterizează pe pista 07, aeronavele menționate mai sus, vor degaja pista urmând ruta standard de rulare ARRIVAL 1D.

3. Când aterizează pe pista 25, menționate mai sus, vor degaja pista urmând ruta standard de rulare ARRIVAL 2D.

2. APRON MANAGEMENT / ADMINISTRAREA PLATFORMEI

1. Apron management, at Cluj Avram Iancu International Airport, is coordinated between the aerodrome operator and the air traffic service provider. The provisions can be found in the local procedure which can be requested at office@airportcluj.ro (available only in Romanian).

2. Air to ground communications facilities used at the apron:

| Service designation | Call sign | Channel (s) /frequency | Hours of operation | Remarks |
|--|------------|--|--------------------|---------|
| Start-up authorizations and taxiing instructions | CLUJ Tower | According to LRCL AD 2.18 ATS COMMUNICATION FACILITIES | | |
| Stand allocation | | | | |

3. During taxi on apron, it is recommended that all aircrafts to use the engine thrust as low as possible.

4. For aircraft parking Marshaller assistance is provided.

5. Aircraft exit from parking stands is carried out by push-back procedure, except exit from stand 12.

6. Marshaller's guidance must be provided to a moving aircraft on the apron surface whenever:

- on pilot request;
- during low visibility conditions (LVP).

7. Pedestrian displacement of passengers and crew is allowed only on APRON 1 to/from aircraft parking stands 4, 5, 6 and 23 to/from terminals, for embarking/disembarking operations.

1. Pe Aeroportul Internațional Avram Iancu Cluj, administrarea platformei este coordonată între operatorul de aerodrom și furnizorul serviciilor de trafic aerian. Prevederile sunt regăsite în procedura locală care poate fi solicitată la adresa office@airportcluj.ro (disponibilă numai în limba română).

2. Facilități de comunicații aer-sol desemnate pentru a fi utilizate la platformă:

| Tip serviciu | Indicativ de apel | Canal(e) /frecvență | Ore de funcționare | Observații |
|---|-------------------|---|--------------------|------------|
| Autorizații de pornire și instrucțiuni de rulaj | CLUJ Tower | Conform LRCL AD 2.18 ATS COMMUNICATION FACILITIES | | |
| Alocare stand | | | | |

3. Pe durata rulării aeronavelor pe platformă, se recomandă utilizarea motoarelor la o turație cât mai redusă.

4. Pentru parcare aeronavelor se asigură asistență de către Dispecerul Sol.

5. Ieșirea de la pozițiile de parcare este realizată prin procedură push-back, excepție fiind ieșirea de la stand 12.

6. Dirijarea aeronavelor în mișcare pe suprafețele platformelor va fi asigurată de către dispecerul sol în următoarele situații:

- la solicitarea pilotului comandant;
- în condiții de vizibilitate redusă (LVP).

7. Deplasarea pedestră a pasagerilor și echipajelor este permisă doar pe APRON 1 la/de la pozițiile de parcare aeronave 4, 5, 6 și 23 la/de la terminal, pentru efectuarea operațiunilor de îmbarcare/debarcare.

3. STANDARD TAXI ROUTES / RUTE STANDARD DE RULARE

3.1 Standard ARRIVAL Taxi Routes / Rutele Standard la SOSIRE

| Landing on RWY 07 | | | | | | | |
|------------------------------|---------------------------------|----|---------|-------|------------------------|---|---|
| Instruction given by ATC | | | | | | | |
| Taxi via standard taxi route | Name of the Standard Taxi Route | To | APRON | Stand | Taxiway to be followed | Remarks | |
| | Arrival 1A | | APRON 1 | | 1-3 | RWY backtrack TWY G TWY D TWY A | To be used by A/C with MTOW ≤ 80 T. Exceptions may be applied by TWR in order to ensure fluency of the airport air traffic. |
| | Arrival 1B | | | | 4-6,23 | RWY backtrack TWY G TWY H TWY J TWY K | NIL |
| | Arrival 1C | | | | 7-9 | RWY backtrack TWY G TWY D TWY A | To be used by A/C with MTOW ≤ 80 T. Exceptions may be applied by TWR in order to ensure fluency of the airport air traffic. |
| | Arrival 1D | | APRON 2 | | 10,11 | RWY backtrack TWY G | NIL |
| | Arrival 1E | | | | 12 | RWY backtrack TWY G TWY E | In emergency situation is assigned as isolated aircraft position |
| | Arrival 1F | | | | 13-18 | RWY backtrack TWY G TWY C | NIL |
| | Arrival 1G | | | | 19-22 | RWY backtrack TWY G TWY E TWY B | |
| | Landing on RWY 25 | | | | | | |
| Instruction given by ATC | | | | | | | |
| Taxi via standard taxi route | Name of the Standard Taxi Route | To | APRON | Stand | Taxiway to be followed | Remarks | |
| | Arrival 2A | | APRON 1 | | 1-3 | TWY F TWY H TWY D TWY A | To be used by A/C with MTOW ≤ 80 T. Exceptions may be applied by TWR in order to ensure fluency of the airport air traffic. |
| | Arrival 2B | | | | 4-6, 23 | TWY F TWY H TWY J TWY K | NIL |
| | Arrival 2C | | | | 7-9 | TWY F TWY H TWY D TWY A | To be used by A/C with MTOW ≤ 80 T. Exceptions may be applied by TWR in order to ensure fluency of the airport air traffic. |
| | Arrival 2D | | APRON 2 | | 10,11 | TWY F TWY H TWY G | NIL |
| | Arrival 2E | | | | 12 | TWY F TWY H TWY G TWY E | In emergency situation is assigned as isolated aircraft position |
| | Arrival 2F | | | | 13-18 | TWY F TWY H TWY G TWY C | NIL |
| | Arrival 2G | | | | 19-22 | TWY F TWY H TWY G TWY E TWY B | |

3. 2 Standard DEPARTURE Taxi Routes / Rutele Standard de Rulare la PLECARE

| Take-off RWY 07 | | | | | | | |
|-----------------------------|--------------------------|--------|---------------------------------|---|----------|--|---|
| | Instruction given by ATC | | | | Stop bar | Remarks | |
| | From | Stand | Name of the Standard Taxi Route | Taxiway to be followed | | | |
| Taxi via standard tax route | APRON 1 | 1-3 | Departure 1A | TWY A TWY D TWY H TWY F | TWY H | To be used by A/C with MTOW ≤ 80 T. Exceptions may be applied by TWR in order to ensure fluency of the airport air traffic. | |
| | | 4-6,23 | Departure 1B | TWY K TWY J TWY H TWY F | | NIL | |
| | | 7-9 | Departure 1C | TWY A TWY D TWY H TWY F | | To be used by A/C with MTOW ≤ 80 T. Exceptions may be applied by TWR in order to ensure fluency of the airport air traffic. | |
| | APRON 2 | 10,11 | Departure 1D | TWY G TWY H TWY F | | NIL | |
| | | 12 | Departure 1E | TWY E TWY G TWY H TWY F | | | |
| | | 13-18 | Departure 1F | TWY C TWY G TWY H TWY F | | | |
| | | 19-22 | Departure 1G | TWY B TWY E TWY G TWY H TWY F | | | |
| | Take-off RWY 25 | | | | | | |
| | Instruction given by ATC | | | | Stop bar | | Remarks |
| | From | Stand | Name of the Standard Taxi Route | Taxiway to be followed | | | |
| Taxi via standard tax route | APRON 1 | 1-3 | Departure 2A | TWY A TWY D TWY G RWY backtrack | TWY G | | To be used by A/C with MTOW ≤ 80 T. Exceptions applied by TWR in order to ensure fluency of the airport air traffic. |
| | | 4-6,23 | Departure 2B | TWY K TWY J TWY H TWY G RWY backtrack | | NIL | |
| | | 7-9 | Departure 2C | TWY A TWY D TWY G RWY backtrack | | To be used by A/C with MTOW ≤ 80 T. Exceptions applied by TWR in order to ensure fluency of the airport air traffic. | |
| | APRON 2 | 10,11 | Departure 2D | TWY G RWY backtrack | | NIL | |
| | | 12 | Departure 2E | TWY E TWY G RWY backtrack | | | |
| | | 13-18 | Departure 2F | TWY C TWY G RWY backtrack | | | |
| | | 19-22 | Departure 2G | TWY B TWY E TWY G RWY backtrack | | | |



4. HELICOPTER OPERATION-LIMITATIONS / OPERAREA ELICOPTERELOR-LIMITĂRI

- | | |
|---|---|
| <p>1. Helicopter movement can be performed both by air or ground taxi, but only with mandatory use of the published standard taxi routes.</p> <p>2. Helicopters will be parked on a marked / unmarked apron parking stand only with ground marshaller guidance.</p> | <p>1. Deplasarea elicopterelor poate fi efectuată atât în rulaaj aerian, cât și la sol dar cu respectarea obligatorie a rutelor standard de rulare publicate.</p> <p>2. Elicopterele vor fi parcate pe platformă, pe poziții marcate/nemarcate, doar cu dirijarea dispecerului sol.</p> |
|---|---|

LRCL AD 2.21 NOISE ABATEMENT PROCEDURES

- | | |
|--|--|
| <p>1. For DEPARTURES - See AD 1.1-3.</p> <p>2. The APU is permitted functioning maximum 15 minutes after BLOCK ON TIME and may be started with maximum 30 minutes before STD.</p> <p>3. In order to ensure noise reduction, mostly, landing will be performed on RWY 25 and takeoff will be performed on RWY 07 on the following time intervals: a) for summer season: between 20.00 UTC and 04.00 UTC; b) for winter season: between 21.00 UTC and 05.00 UTC.</p> | <p>1. Pentru DECOLĂRI - Vezi AD 1.1-3.</p> <p>2. La aterizare, aeronavele pot menține APU în funcțiune maxim 15 minute de la ora BLOCK ON TIME. La decolare APU poate fi pornit cu maxim 30 minute înainte de STD.</p> <p>3. Pentru a asigura reducerea zgomotului, aterizarea va fi efectuată preponderent pe RWY 25 și decolarea se va efectua preponderent pe RWY 07 în următoarele intervale de timp: a) pentru sezonul de vară: între 20.00 UTC și 04.00 UTC; b) pentru sezonul de iarnă: între 21.00 UTC și 05.00 UTC.</p> |
|--|--|

LRCL AD 2.22 FLIGHT PROCEDURES

1. P-RNAV requirements / Cerințe P-RNAV

RNAV SID and STAR procedures within NAPOC TMA are based on DME-DME sensors and designed in accordance with RNAV-1 (P-RNAV) criteria. RNAV-1 (P-RNAV) approval is required to conduct these procedures without additional restrictions.

RNAV-1 (P-RNAV) approved aircraft operators shall fill-in accordingly the flight plan.

Expect direct routing/shortcuts by ATC whenever possible (especially during off-peak hours). The turn to final approach is usually performed by radar vectors to expedite traffic handling and for separation reasons.

Tactical points for non-standard shorter approach are established: IXORI for CL RWY07, VIBUD for CL RWY25. These points may be used only after request/approval of air crews.

Vertical planning information: air crews should plan for possible descent clearance in accordance with vertical restrictions specified on STAR charts. Actual descent clearance will be as directed by ATC.

In case a published climb gradient can not be respected, air crews should request non-standard departure before startup.

Procedurile SID și STAR RNAV din TMA NAPOC se bazează pe senzori DME-DME și sunt proiectate în conformitate cu criteriile RNAV-1 (P-RNAV). Pentru operarea acestor proceduri fără restricții suplimentare, este necesară aprobarea RNAV-1 (P-RNAV).

Operatorii aeronavelor aprobate RNAV-1 (P-RNAV) trebuie să completeze corespunzător planul de zbor.

Ori de câte ori este posibil, ATC va acorda autorizări "direct-to" (îndeosebi în afara perioadelor de vârf).

Virajul către apropierea finală este de obicei efectuat prin vectorizare radar, pentru a fluidiza traficul și pentru asigurarea eșalonării.

Sunt stabilite puncte tactice pentru apropieri non-standard mai scurte: IXORI pentru CL RWY07, VIBUD pentru CL RWY25. Aceste puncte pot fi utilizate numai la cererea sau cu acordul echipajului.

Informații privind planificarea profilului de zbor vertical: se recomandă ca echipajele să efectueze planificarea zborului pentru o posibilă autorizare a coborârii în conformitate cu restricțiile verticale specificate pe harta STAR. Coborârea se va efectua însă în conformitate cu instrucțiunile ATC.

În cazul în care un gradient de urcare publicat nu poate fi respectat, se recomandă ca echipajele să solicite o decolare non-standard înainte de pornirea motoarelor.

AERODROME CHART - ICAO

46° 47' 21" N
023° 41' 32" E
ELEV 1039 FT

CLUJ TOWER 118.705
CLUJ TOWER ALT N 134.400
CLUJ ATIS 125.525

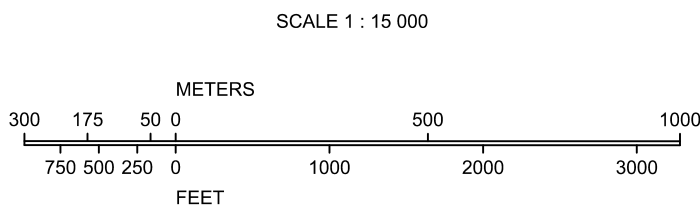
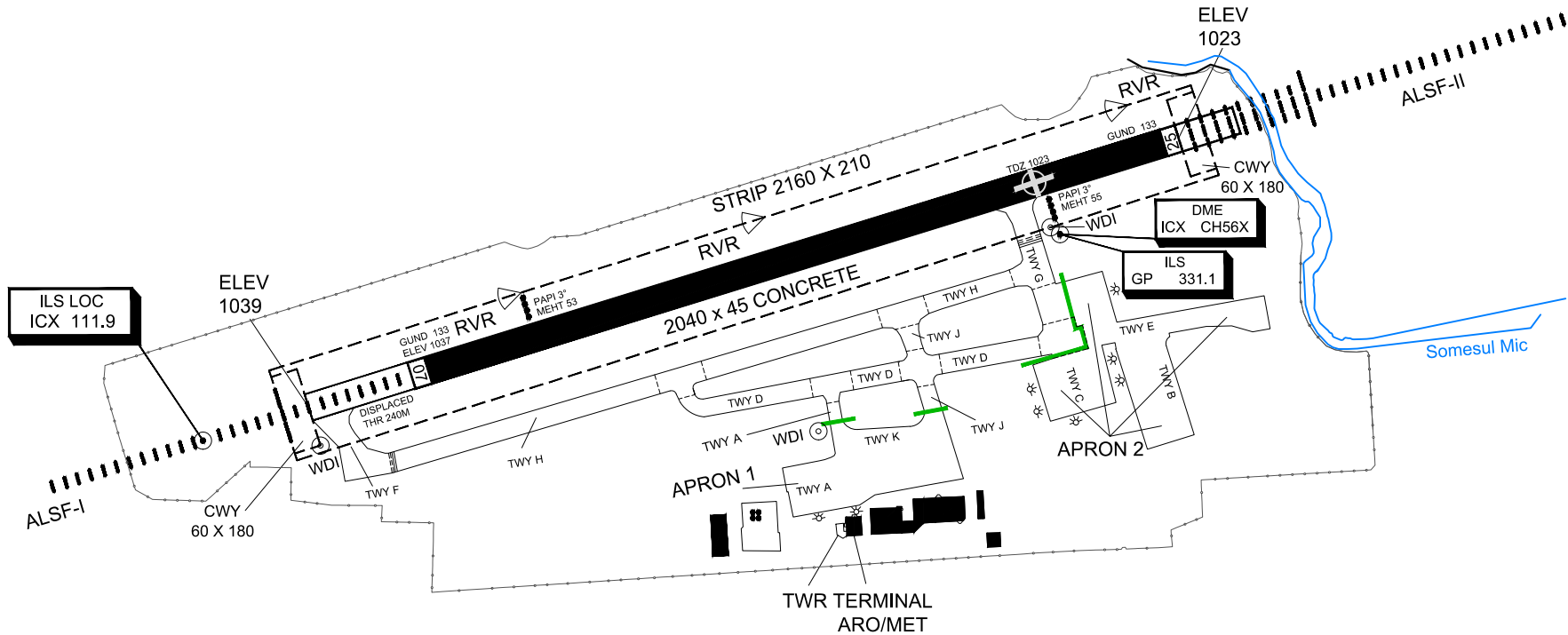
CLUJ NAPOCA / Avram Iancu (LRCL)

Changes: PCN, TWY designation and RVR added.

| RWY | DIRECTION | THR | BEARING STRENGTH |
|----------|-----------|---------------------------|-------------------------|
| 07 | 067° | 46°47'07"N 023°40'27"E | 114/R/B/W/T CONCRETE |
| 25 | 247° | 46°47'25"N 023°41'47"E | |
| HELIPORT | | - | |

ELEVATIONS IN FEET
DIMENSIONS IN METRES
BEARINGS ARE MAGNETIC

↑
VAR 5°E 2015
ANNUAL RATE OF CHANGE 7.0"E



| TWY | WIDE | BEARING STRENGTH |
|-----|------|--------------------------|
| A | 18 | PCN 46/R/B/W/T CONCRETE |
| B | 23 | PCN 105/R/B/W/T CONCRETE |
| C | 18 | PCN 94/R/B/W/T CONCRETE |
| D | 18 | PCN 49/R/B/W/T CONCRETE |
| E | 23 | PCN 115/R/B/W/T CONCRETE |
| F | 25 | PCN 72/R/B/W/T CONCRETE |
| G | 25 | PCN 114/R/B/W/T CONCRETE |
| H | 23 | PCN 72/R/B/W/T CONCRETE |
| J | 23 | PCN 102/R/B/W/T CONCRETE |
| K | 18 | PCN 123/R/B/W/T CONCRETE |

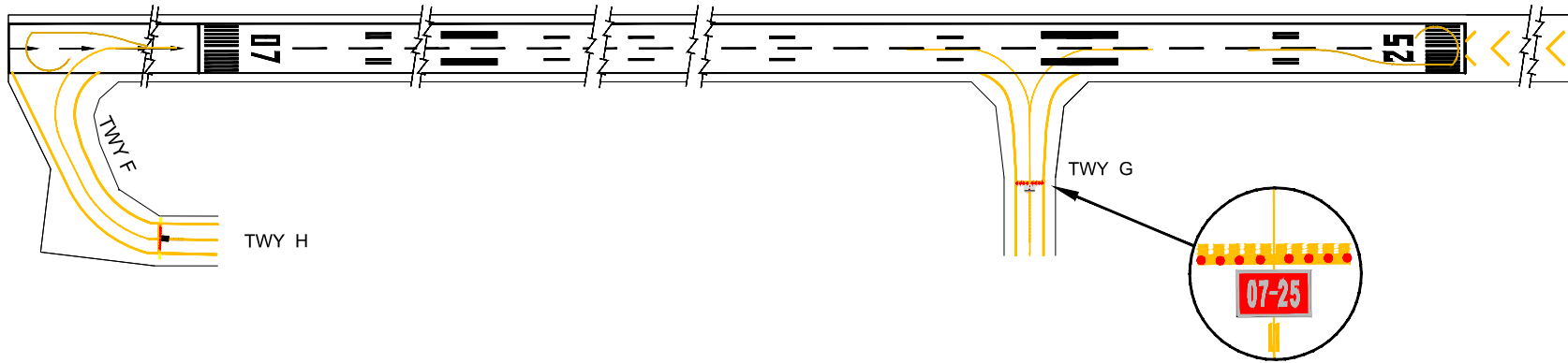
| LEGEND | |
|---|--|
| RUNWAY VISUAL RANGE (RVR) OBSERVATION SITE | |
| AERODROME REFERENCE POINT | |
| BUILDING | |
| FLOODLIGHT | |
| APRON BOUNDARY | |
| Runway Holding Position | |
| Intermediate Holding Position | |

46° 47' 21" N
023° 41' 32" E
ELEV 1039FT

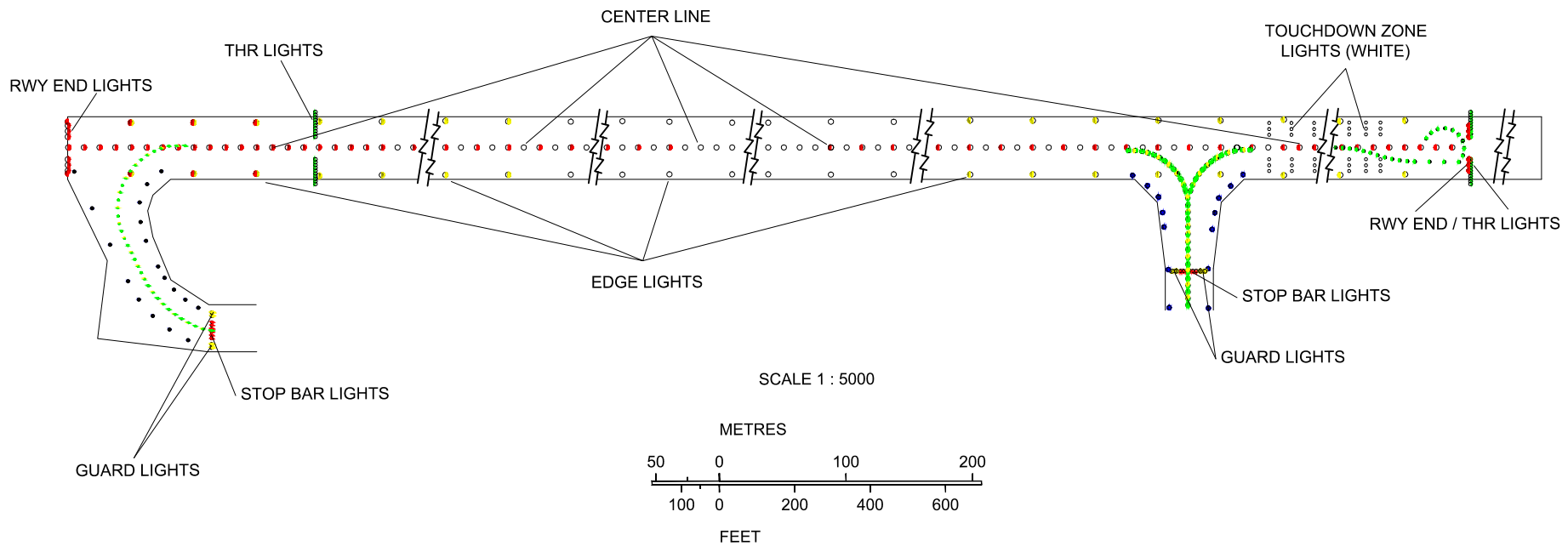
| | |
|-----------------|---------|
| CLUJ TOWER | 118.705 |
| CLUJ TOWER ALTN | 134.400 |
| CLUJ ATIS | 125.525 |

CLUJ NAPOCA / Avram Iancu
(LRCL)

MARKING AIDS RWY 07 / 25 AND EXIT TWY



LIGHTING AIDS RWY 07 / 25 AND EXIT TWY



Changes: TDZ lights added.

**AERODROME GROUND /
MOVEMENT CHART - ICAO**

ARP ELEV 1039 FT

APRON 1 ELEV 1026 FT
APRON 2 ELEV 1026 FT

| | |
|-----------------|---------|
| CLUJ TOWER | 118.705 |
| CLUJ TOWER ALTN | 134.400 |
| CLUJ ATIS | 125.525 |

CLUJ NAPOCA
Avram Iancu (LRCL)

ELEVATIONS IN FEET
DIMENSIONS IN METRES
BEARINGS ARE MAGNETIC

BEARING STRENGTH:

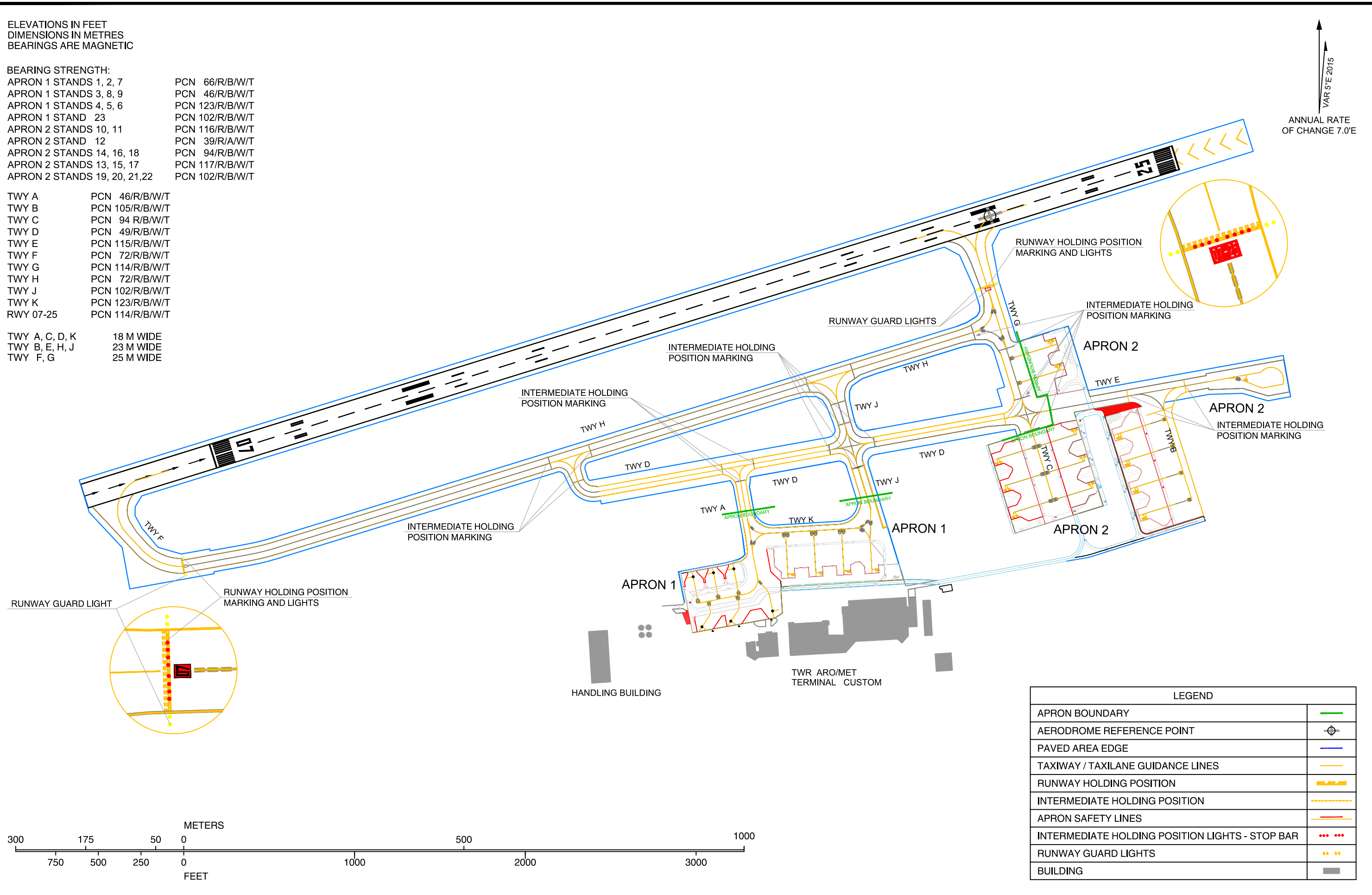
| | |
|------------------------------|-----------------|
| APRON 1 STANDS 1, 2, 7 | PCN 66/R/B/W/T |
| APRON 1 STANDS 3, 8, 9 | PCN 46/R/B/W/T |
| APRON 1 STANDS 4, 5, 6 | PCN 123/R/B/W/T |
| APRON 1 STAND 23 | PCN 102/R/B/W/T |
| APRON 2 STANDS 10, 11 | PCN 116/R/B/W/T |
| APRON 2 STAND 12 | PCN 39/R/A/W/T |
| APRON 2 STANDS 14, 16, 18 | PCN 94/R/B/W/T |
| APRON 2 STANDS 13, 15, 17 | PCN 117/R/B/W/T |
| APRON 2 STANDS 19, 20, 21,22 | PCN 102/R/B/W/T |

| | |
|-----------|-----------------|
| TWY A | PCN 46/R/B/W/T |
| TWY B | PCN 105/R/B/W/T |
| TWY C | PCN 94 R/B/W/T |
| TWY D | PCN 49/R/B/W/T |
| TWY E | PCN 115/R/B/W/T |
| TWY F | PCN 72/R/B/W/T |
| TWY G | PCN 114/R/B/W/T |
| TWY H | PCN 72/R/B/W/T |
| TWY J | PCN 102/R/B/W/T |
| TWY K | PCN 123/R/B/W/T |
| RWY 07-25 | PCN 114/R/B/W/T |

| | |
|----------------|-----------|
| TWY A, C, D, K | 18 M WIDE |
| TWY B, E, H, J | 23 M WIDE |
| TWY F, G | 25 M WIDE |

↑
VAR 5°E 2015
ANNUAL RATE
OF CHANGE 7.0'E

Changes: Chart revised.



| LEGEND | |
|---|--|
| APRON BOUNDARY | |
| AERODROME REFERENCE POINT | |
| PAVED AREA EDGE | |
| TAXIWAY / TAXILANE GUIDANCE LINES | |
| RUNWAY HOLDING POSITION | |
| INTERMEDIATE HOLDING POSITION | |
| APRON SAFETY LINES | |
| INTERMEDIATE HOLDING POSITION LIGHTS - STOP BAR | |
| RUNWAY GUARD LIGHTS | |
| BUILDING | |

AIRCRAFT PARKING / DOCKING CHART - ICAO

APRON 1 ELEV
1026 FT

CLUJ TOWER 118.705
CLUJ TOWER ALTN 134.400
CLUJ ATIS 125.525

CLUJ NAPOCA / Avram Iancu (LRCL)
APRON 1

| LEGEND | |
|---|----------|
| TO AIRCRAFT STAND | |
| FLOODLIGHT | |
| AIRCRAFT STAND | 1 |
| INS CHECK POINTS | |
| TAXI GUIDANCE LINES | (yellow) |
| BUILDING | |
| APRON SAFETY LINES | |
| APRON BOUNDARY | |
| NO PARKING AREA | |
| AIRCRAFT STAND MANOEUVRING GUIDANCE LIGHT | |
| TWY CENTRE LINE / EDGE LIGHTS | |

INS COORDINATES FOR AIRCRAFT STAND:

| | | |
|--------|---------------|----------------|
| INS 1 | 46°47'00.03"N | 023°41'07.21"E |
| INS 2 | 46°47'00.28"N | 023°41'08.92"E |
| INS 3 | 46°47'00.53"N | 023°41'10.62"E |
| INS 4 | 46°47'00.36"N | 023°41'15.17"E |
| INS 5 | 46°47'00.48"N | 023°41'17.52"E |
| INS 6 | 46°47'00.60"N | 023°41'19.87"E |
| INS 7 | 46°46'57.15"N | 023°41'08.02"E |
| INS 8 | 46°46'57.50"N | 023°41'10.44"E |
| INS 9 | 46°46'58.13"N | 023°41'13.94"E |
| INS 23 | 46°47'00.72"N | 023°41'22.22"E |

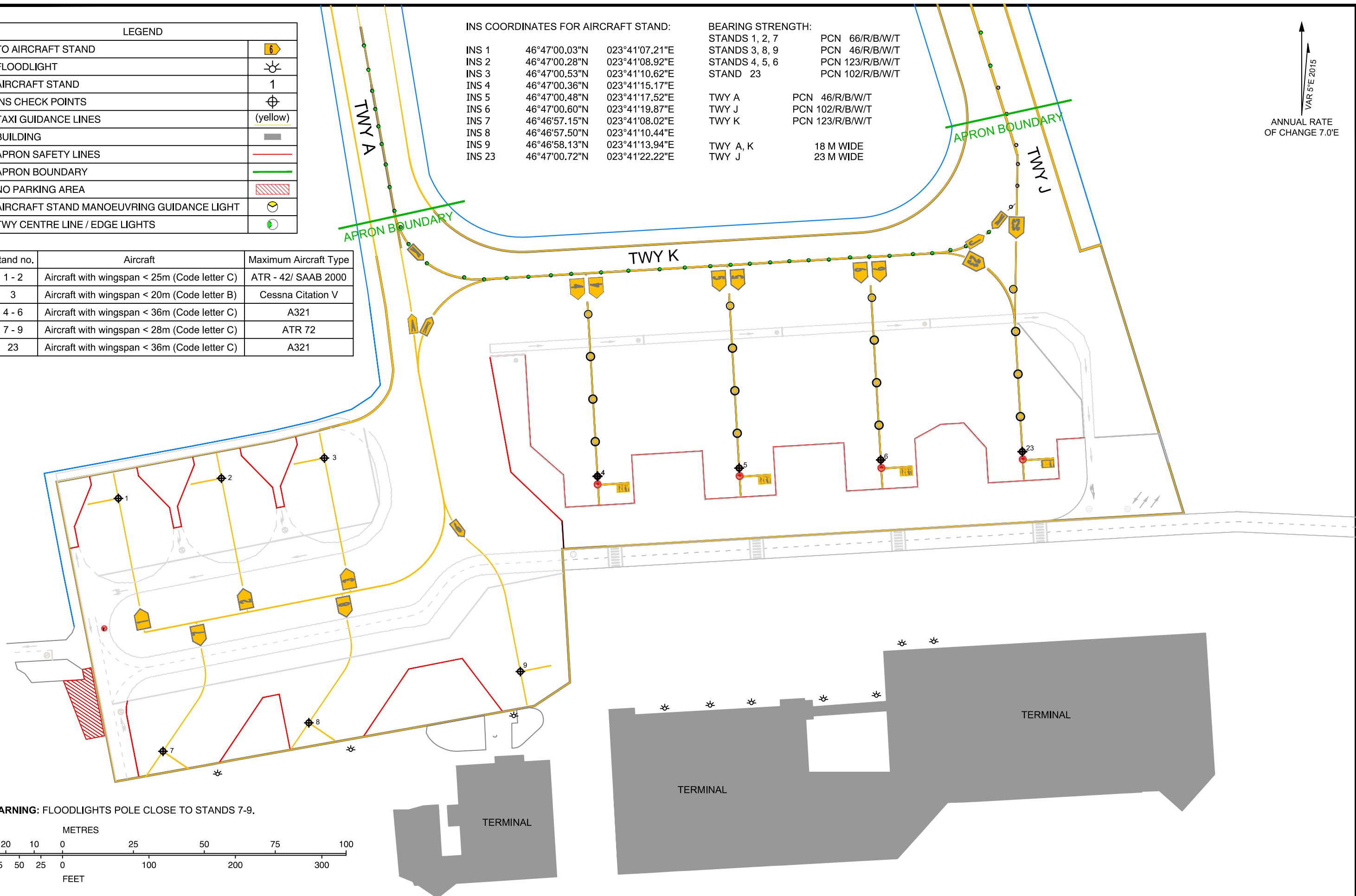
BEARING STRENGTH:

| | |
|----------------|-----------------|
| STANDS 1, 2, 7 | PCN 66/R/B/W/T |
| STANDS 3, 8, 9 | PCN 46/R/B/W/T |
| STANDS 4, 5, 6 | PCN 123/R/B/W/T |
| STAND 23 | PCN 102/R/B/W/T |
| TWY A | PCN 46/R/B/W/T |
| TWY J | PCN 102/R/B/W/T |
| TWY K | PCN 123/R/B/W/T |
| TWY A, K | 18 M WIDE |
| TWY J | 23 M WIDE |

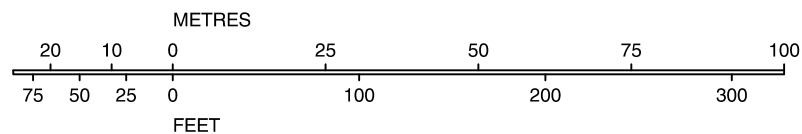
↑
VAR 5°E 2015
ANNUAL RATE
OF CHANGE 7.0'E

| Stand no. | Aircraft | Maximum Aircraft Type |
|-----------|--|-----------------------|
| 1 - 2 | Aircraft with wingspan < 25m (Code letter C) | ATR - 42/ SAAB 2000 |
| 3 | Aircraft with wingspan < 20m (Code letter B) | Cessna Citation V |
| 4 - 6 | Aircraft with wingspan < 36m (Code letter C) | A321 |
| 7 - 9 | Aircraft with wingspan < 28m (Code letter C) | ATR 72 |
| 23 | Aircraft with wingspan < 36m (Code letter C) | A321 |

Changes: Chart revised.



WARNING: FLOODLIGHTS POLE CLOSE TO STANDS 7-9.

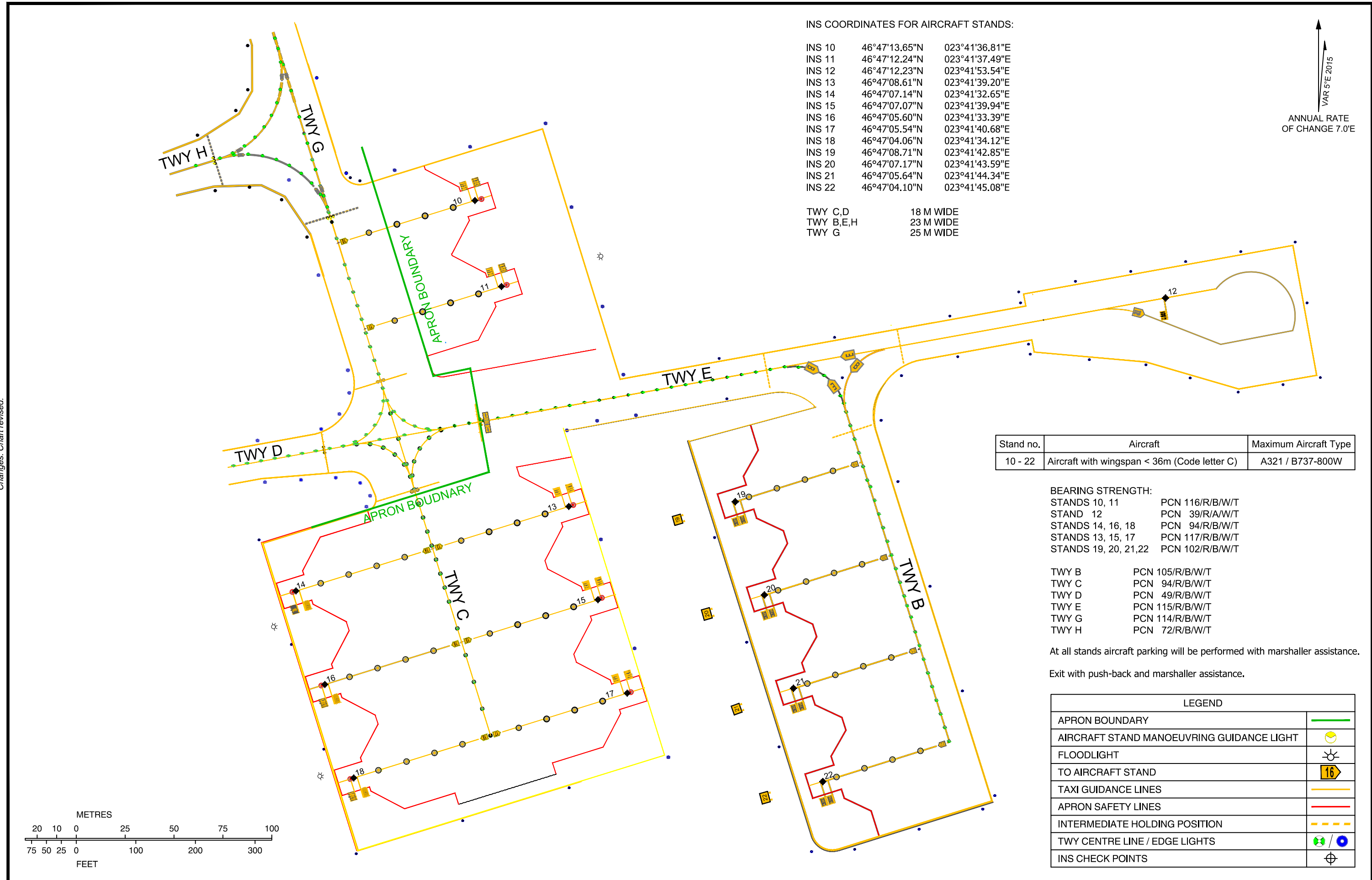


AIRCRAFT PARKING / DOCKING CHART - ICAO

APRON 2 ELEV
1026 FT

| | |
|-----------------|---------|
| CLUJ TOWER | 118.705 |
| CLUJ TOWER ALTN | 134.400 |
| CLUJ ATIS | 125.525 |

CLUJ NAPOCA / Avram Iancu (LRCL)
APRON 2



INS COORDINATES FOR AIRCRAFT STANDS:

| | | |
|--------|---------------|----------------|
| INS 10 | 46°47'13.65"N | 023°41'36.81"E |
| INS 11 | 46°47'12.24"N | 023°41'37.49"E |
| INS 12 | 46°47'12.23"N | 023°41'53.54"E |
| INS 13 | 46°47'08.61"N | 023°41'39.20"E |
| INS 14 | 46°47'07.14"N | 023°41'32.65"E |
| INS 15 | 46°47'07.07"N | 023°41'39.94"E |
| INS 16 | 46°47'05.60"N | 023°41'33.39"E |
| INS 17 | 46°47'05.54"N | 023°41'40.68"E |
| INS 18 | 46°47'04.06"N | 023°41'34.12"E |
| INS 19 | 46°47'08.71"N | 023°41'42.85"E |
| INS 20 | 46°47'07.17"N | 023°41'43.59"E |
| INS 21 | 46°47'05.64"N | 023°41'44.34"E |
| INS 22 | 46°47'04.10"N | 023°41'45.08"E |

| | |
|-----------|-----------|
| TWY C,D | 18 M WIDE |
| TWY B,E,H | 23 M WIDE |
| TWY G | 25 M WIDE |

| Stand no. | Aircraft | Maximum Aircraft Type |
|-----------|--|-----------------------|
| 10 - 22 | Aircraft with wingspan < 36m (Code letter C) | A321 / B737-800W |

BEARING STRENGTH:
 STANDS 10, 11 PCN 116/R/B/W/T
 STAND 12 PCN 39/R/A/W/T
 STANDS 14, 16, 18 PCN 94/R/B/W/T
 STANDS 13, 15, 17 PCN 117/R/B/W/T
 STANDS 19, 20, 21, 22 PCN 102/R/B/W/T

| | |
|-------|-----------------|
| TWY B | PCN 105/R/B/W/T |
| TWY C | PCN 94/R/B/W/T |
| TWY D | PCN 49/R/B/W/T |
| TWY E | PCN 115/R/B/W/T |
| TWY G | PCN 114/R/B/W/T |
| TWY H | PCN 72/R/B/W/T |

At all stands aircraft parking will be performed with marshaller assistance.
 Exit with push-back and marshaller assistance.

| LEGEND | |
|---|--|
| APRON BOUNDARY | |
| AIRCRAFT STAND MANOEUVRING GUIDANCE LIGHT | |
| FLOODLIGHT | |
| TO AIRCRAFT STAND | |
| TAXI GUIDANCE LINES | |
| APRON SAFETY LINES | |
| INTERMEDIATE HOLDING POSITION | |
| TWY CENTRE LINE / EDGE LIGHTS | |
| INS CHECK POINTS | |

Changes: Chart revised.

AERODROME ELEV. 200 FT

TULCEA / Delta Dunării Tulcea (LRTC)

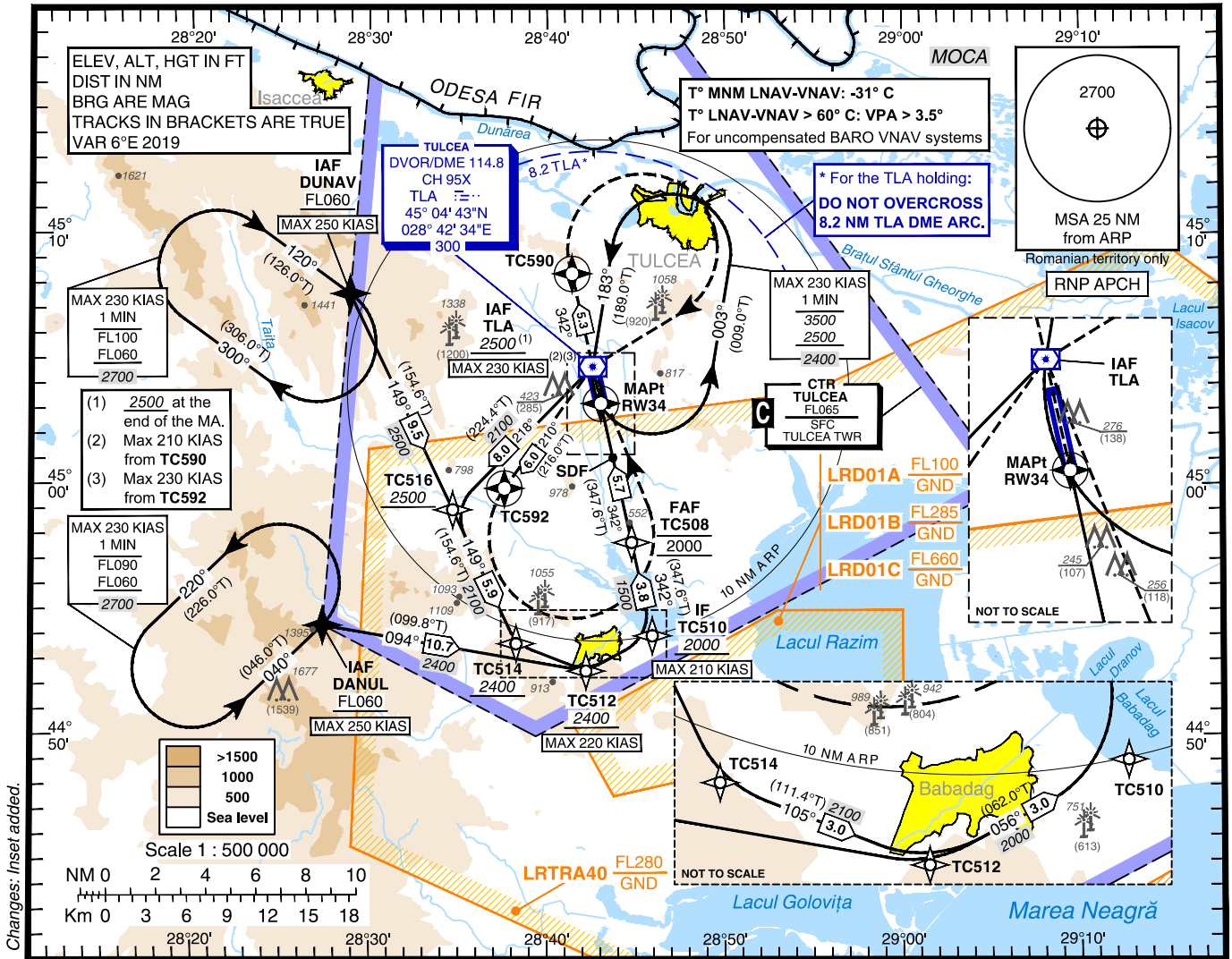
INSTRUMENT APPROACH HEIGHTS RELATED TO DTHR RWY 34 - ELEV 138 FT

CHART - ICAO

TULCEA TOWER 119.755
TULCEA TWR ALTN 120.300

EGNOS
CH 92034
E34A

RNP
RWY 34



Changes: Inset added.

Transition Altitude 4000

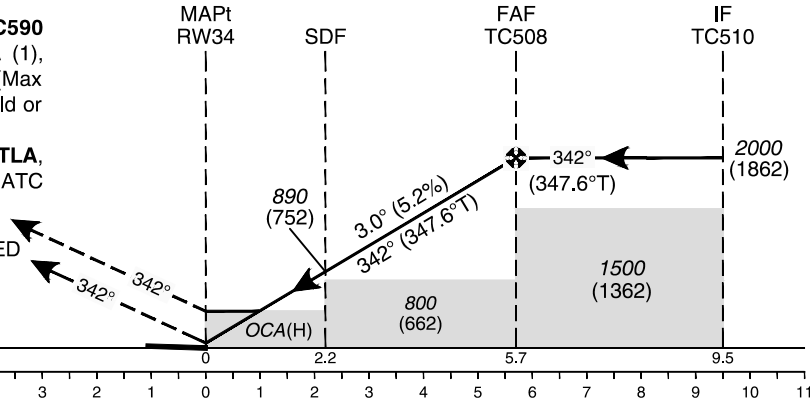
MISSED APPROACH

Climb to **TC590** on course **342°M**. At **TC590** turn **right** (Max **210 KIAS**) direct to **TLA** (1), then to **TC592**, then turn **left** direct to **TLA** (Max **230 KIAS**) climbing to **2500** (2362) and hold or follow ATC instructions.
(1) If **2500** (2362) is already reached at **TLA**, enter the holding and hold or follow ATC instructions.

SBAS CAT I OPERATIONS NOT APPROVED

RDH 54FT

DTHR ELEV 138FT
NM to/from THR RWY34



| OCA(H) | | A | B | C | D |
|--------------|-----------|-----------|-----------|-----------|-----------|
| LPV | | 390 (252) | 410 (272) | 410 (272) | 420 (282) |
| LNAV / VNAV | MACG 2.5% | 400 (262) | 410 (272) | 430 (292) | 460 (322) |
| | MACG 3.0% | 380 (242) | 390 (252) | 400 (262) | 410 (272) |
| LNAV | | 510 (372) | | | |
| LNAV w/o SDF | | 800 (662) | | | |
| Circling | | 720 | 1120 | 1460 | 1460 |

| GS | KT | 70 | 90 | 100 | 120 | 140 | 160 |
|-----------------------|--------|------|------|------|------|------|------|
| FAF-MAPt 5.7 NM | min:s | 4:52 | 3:47 | 3:24 | 2:50 | 2:26 | 2:08 |
| Rate of descent 5.24% | ft/min | 371 | 478 | 531 | 637 | 743 | 849 |

Timing not authorized for defining the MAPt.

| Dist to DTHR | NM | 1 | 2 | 3 | 4 | 5 |
|-------------------|----|-----------|-----------|-------------|-------------|-------------|
| Altitude (Height) | FT | 510 (372) | 830 (692) | 1150 (1012) | 1470 (1332) | 1780 (1642) |

For data tabulation see verso

TULCEA / Delta Dunării Tulcea (LRTC)
RNP RWY 34

AERONAUTICAL DATA TABULATION

| LNAV, LNAV/VNAV and LPV approach to RW34 | |
|--|------------------------------|
| Fix / Waypoint Name | Coordinates |
| DANUL (IAF) | 44°54'24.1"N 028°27'22.6"E |
| DUNAV (IAF) | 45°07'37.8"N 028°28'55.2"E |
| TLA (IAF) | 45°04'43.3"N 028°42'34.2"E |
| TC508 (FAF) | 44°57'42.3"N 028°44'45.4"E |
| TC510 (IF) | 44°53'59.0"N 028°45'54.8"E |
| TC512 | 44°52'34.5"N 028°42'11.3"E |
| TC514 | 44°53'40.1"N 028°38'15.5"E |
| TC516 | 44°59'00.6"N 028°34'41.7"E |
| TC590 | 45°08'25.9"N 028°41'24.7"E |
| TC592 | 44°59'52.0"N 028°37'36.0"E |
| (SDF) | 45°01'04.7"N 028°43'42.4"E |
| RW34 (MAPT) | 45°03'14.96"N 028°43'01.80"E |

RADIO COMMUNICATION FAILURE

- a) If RNP RWY 34 instrument approach procedure was assigned or received by ATC, set transponder 7600, proceed according assigned or designated RNP RWY 34 instrument approach procedure. Descending shall be executed in accordance with vertical restrictions specified on chart.
- b) If RNP RWY 34 instrument approach procedure was not assigned or received by ATC, for arrivals via IAF DANUL / DUNAV: set transponder 7600, proceed according to FPL to IAF DANUL / DUNAV / TLA VOR and hold at least 6 minutes, then continue the RNP RWY 34 approach. Descending shall be executed in accordance with vertical restrictions specified on chart.