

Publication Date: 04 AUG 2016

Efective Date: 15 SEP 2016

**AIRAC
AIP AMDT**

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| 09 15 SEP 2016 |
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AIRAC AIP AMENDMENT 09/16

I. Content

- ENR - frequencies of FIS areas;
- AD - LRFL - aerodrome completely withdrawn;
- LRPH - heliport completely withdrawn.

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

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

IV. Hand amendments:
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| AD 2.5-12 | 19 SEP 2013 | AD 2.7-33 | 21 JUL 2016 | AD 2.10-31 | 11 DEC 2014 |
| AD 2.5-13 | 04 FEB 2016 | AD 2.7-34 | 23 JUN 2016 | AD 2.10-51 | 05 MAR 2015 |
| AD 2.5-14 | 04 FEB 2016 | AD 2.7-35 | 23 JUN 2016 | AD 2.10-51a | 05 MAR 2015 |
| AD 2.5-20 | 17 SEP 2015 | AD 2.7-37 | 23 JUN 2016 | AD 2.10-52 | 05 MAR 2015 |
| AD 2.5-20a | 07 APR 2011 | AD 2.7-37a | 09 JAN 2014 | AD 2.10-52a | 05 MAR 2015 |
| AD 2.5-21 | 19 SEP 2013 | AD 2.7-52 | 04 FEB 2016 | AD 2.10-91 | 11 DEC 2014 |
| AD 2.5-22 | 14 NOV 2013 | AD 2.7-52a | 09 JAN 2014 | AD 2.10-91a | 16 OCT 2014 |
| AD 2.5-23 | 14 NOV 2013 | AD 2.8-1 | 23 JUN 2016 | AD 2.10-92 | 11 DEC 2014 |
| AD 2.5-24 | 09 JAN 2014 | AD 2.8-2 | 05 MAR 2015 | AD 2.10-92a | 16 OCT 2014 |
| AD 2.5-25 | 17 DEC 2009 | AD 2.8-3 | 21 JUL 2016 | AD 2.10-93 | 11 DEC 2014 |
| AD 2.5-26 | 19 NOV 2009 | AD 2.8-4 | 26 AUG 2010 | AD 2.10-93a | 16 OCT 2014 |
| AD 2.5-28 | 05 APR 2012 | AD 2.8-5 | 23 JUN 2016 | AD 2.10-94 | 11 DEC 2014 |
| AD 2.5-29 | 05 APR 2012 | AD 2.8-6 | 08 MAY 2008 | AD 2.10-94a | 16 OCT 2014 |
| AD 2.5-30 | 12 NOV 2015 | AD 2.8-7 | 26 MAY 2016 | AD 2.11-1 | 31 MAR 2016 |
| AD 2.5-31 | 12 NOV 2015 | AD 2.8-20 | 15 DEC 2011 | AD 2.11-2 | 31 MAR 2016 |
| AD 2.5-32 | 12 NOV 2015 | AD 2.8-20a | 15 DEC 2011 | AD 2.11-3 | 31 MAR 2016 |
| AD 2.5-33 | 12 NOV 2015 | AD 2.8-22 | 23 JUN 2016 | AD 2.11-4 | 26 MAY 2016 |
| AD 2.5-34 | 12 NOV 2015 | AD 2.8-25 | 26 AUG 2010 | AD 2.11-5 | 31 MAR 2016 |
| AD 2.5-34a | 25 JUN 2015 | AD 2.8-31 | 26 MAY 2016 | AD 2.11-20 | 31 MAR 2016 |
| AD 2.5-35 | 26 JUN 2014 | AD 2.8-32 | 26 MAY 2016 | AD 2.11-20a | 31 MAR 2016 |
| AD 2.5-35a | 26 JUN 2014 | AD 2.8-35 | 21 JUL 2016 | AD 2.11-22 | 31 MAR 2016 |
| AD 2.5-36 | 21 JUL 2016 | AD 2.8-36 | 21 JUL 2016 | AD 2.11-23 | 31 MAR 2016 |
| AD 2.5-36a | 07 FEB 2013 | AD 2.8-45 | 26 MAY 2016 | AD 2.11-25 | 31 MAR 2016 |
| AD 2.5-37 | 26 JUN 2014 | AD 2.8-45a | 26 MAY 2016 | AD 2.11-51 | 01 MAY 2014 |
| AD 2.5-37a | 26 JUN 2014 | AD 2.8-52 | 23 JUN 2016 | AD 2.11-51a | 25 AUG 2011 |
| AD 2.5-40 | 04 FEB 2016 | AD 2.8-52a | 23 JUN 2016 | AD 2.11-52 | 25 AUG 2011 |
| AD 2.5-45 | 04 FEB 2016 | AD 2.8-81 | 21 JUL 2016 | AD 2.11-52a | 25 AUG 2011 |
| AD 2.5-51 | 03 MAR 2016 | AD 2.8-81a | 26 MAY 2016 | AD 2.11-91 | 31 MAR 2016 |
| AD 2.5-51a | 05 APR 2012 | AD 2.8-82 | 23 JUN 2016 | AD 2.11-91a | 31 MAR 2016 |
| AD 2.5-53 | 02 MAY 2013 | AD 2.8-82a | 26 MAY 2016 | AD 2.11-92 | 31 MAR 2016 |
| AD 2.5-53a | 05 APR 2012 | AD 2.9-1 | 11 DEC 2014 | AD 2.11-92a | 31 MAR 2016 |
| AD 2.5-55 | 02 MAY 2013 | AD 2.9-2 | 04 FEB 2016 | AD 2.12-1 | 25 JUL 2013 |
| AD 2.5-55a | 07 FEB 2013 | AD 2.9-3 | 28 MAY 2015 | AD 2.12-2 | 22 AUG 2013 |
| AD 2.5-57 | 02 MAY 2013 | AD 2.9-4 | 04 FEB 2016 | AD 2.12-3 | 28 MAY 2015 |
| AD 2.5-57a | 05 APR 2012 | AD 2.9-5 | 23 JUL 2015 | AD 2.12-4 | 03 MAY 2012 |
| AD 2.5-91 | 03 MAR 2016 | AD 2.9-6 | 22 SEP 2011 | AD 2.12-5 | 26 MAY 2016 |
| AD 2.5-91a | 05 APR 2012 | AD 2.9-20 | 04 FEB 2016 | AD 2.12-6 | 22 AUG 2013 |
| AD 2.5-93 | 03 MAR 2016 | AD 2.9-22 | 04 FEB 2016 | AD 2.12-20 | 22 AUG 2013 |
| AD 2.5-93a | 05 APR 2012 | AD 2.9-25 | 13 MAR 2008 | AD 2.12-22 | 28 MAY 2015 |
| AD 2.5-95 | 02 MAY 2013 | AD 2.9-51 | 23 JUN 2016 | AD 2.12-25 | 16 DEC 2010 |
| AD 2.5-95a | 07 FEB 2013 | AD 2.9-51a | 23 JUN 2016 | AD 2.12-52 | 16 DEC 2010 |
| AD 2.5-97 | 02 MAY 2013 | AD 2.9-52 | 23 JUN 2016 | AD 2.12-52a | 16 DEC 2010 |
| AD 2.5-97a | 05 APR 2012 | AD 2.9-52a | 23 JUN 2016 | AD 2.12-81 | 16 DEC 2010 |
| AD 2.7-1 | 18 AUG 2016 | AD 2.9-81 | 23 JUN 2016 | AD 2.12-81a | 16 DEC 2010 |
| AD 2.7-2 | 17 SEP 2015 | AD 2.9-81a | 23 JUN 2016 | AD 2.12-82 | 16 DEC 2010 |
| AD 2.7-3 | 04 FEB 2016 | AD 2.9-82 | 23 JUN 2016 | AD 2.12-82a | 16 DEC 2010 |
| AD 2.7-4 | 25 JUN 2015 | AD 2.9-82a | 23 JUN 2016 | AD 2.13-1 | 23 JUN 2016 |
| AD 2.7-5 | 18 AUG 2016 | AD 2.9-83 | 23 JUN 2016 | AD 2.13-2 | 24 JUL 2014 |
| AD 2.7-6 | 25 JUN 2015 | AD 2.9-83a | 23 JUN 2016 | AD 2.13-3 | 28 MAY 2015 |
| AD 2.7-7 | 25 JUN 2015 | AD 2.10-1 | 31 MAR 2016 | AD 2.13-4 | 28 MAY 2015 |
| AD 2.7-8 | 30 APR 2015 | AD 2.10-2 | 28 MAY 2015 | AD 2.13-5 | 21 JUL 2016 |
| AD 2.7-9 | 13 NOV 2014 | AD 2.10-3 | 01 JAN 2015 | AD 2.13-6 | 05 MAY 2011 |
| AD 2.7-20 | 18 AUG 2016 | AD 2.10-4 | 28 MAY 2015 | AD 2.13-20 | 09 FEB 2012 |
| AD 2.7-20a | 18 AUG 2016 | AD 2.10-5 | 05 MAR 2015 | AD 2.13-20a | 09 FEB 2012 |
| AD 2.7-22 | 18 AUG 2016 | AD 2.10-6 | 11 DEC 2014 | AD 2.13-22 | 14 NOV 2013 |
| AD 2.7-23 | 18 AUG 2016 | AD 2.10-7 | 11 DEC 2014 | AD 2.13-22a | 03 APR 2014 |
| AD 2.7-25 | 26 MAY 2016 | AD 2.10-8 | 11 DEC 2014 | AD 2.13-25 | 30 JUN 2011 |
| AD 2.7-26 | 26 MAY 2016 | AD 2.10-20 | 11 DEC 2014 | AD 2.13-26 | 05 MAY 2011 |
| AD 2.7-29 | 13 NOV 2014 | AD 2.10-25 | 16 OCT 2014 | AD 2.13-51 | 18 AUG 2016 |
| AD 2.7-30 | 21 JUL 2016 | AD 2.10-28 | 11 DEC 2014 | AD 2.13-51a | 21 JUL 2016 |
| AD 2.7-31 | 23 JUN 2016 | AD 2.10-30 | 11 DEC 2014 | AD 2.13-91 | 23 JUL 2015 |

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|-------------|-------------|-------------|-------------|-------------|-------------|
| AD 2.13-91a | 02 JUN 2011 | AD 2.16-20a | 14 NOV 2013 | AD 2.23-1 | 18 AUG 2016 |
| AD 2.14-1 | 28 APR 2016 | AD 2.16-22 | 19 SEP 2013 | AD 2.23-2 | 04 FEB 2016 |
| AD 2.14-2 | 28 APR 2016 | AD 2.16-23 | 10 JAN 2013 | AD 2.23-3 | 23 JUL 2015 |
| AD 2.14-3 | 28 APR 2016 | AD 2.16-25 | 11 JUL 2002 | AD 2.23-4 | 04 FEB 2016 |
| AD 2.14-4 | 03 MAR 2016 | AD 2.16-28 | 05 FEB 2015 | AD 2.23-20 | 18 AUG 2016 |
| AD 2.14-5 | 23 JUN 2016 | AD 2.16-29 | 01 NOV 2001 | AD 2.23-40 | 18 AUG 2016 |
| AD 2.14-20 | 23 JUN 2016 | AD 2.16-30 | 12 NOV 2015 | AD 2.23-41 | 18 AUG 2016 |
| AD 2.14-22 | 28 APR 2016 | AD 2.16-31 | 12 NOV 2015 | AD 3 | |
| AD 2.14-25 | 12 NOV 2015 | AD 2.16-32 | 12 NOV 2015 | AD 3.2-1 | 15 DEC 2011 |
| AD 2.14-29 | 23 JUN 2016 | AD 2.16-33 | 12 NOV 2015 | AD 3.2-2 | 05 APR 2012 |
| AD 2.14-30 | 04 FEB 2016 | AD 2.16-34 | 12 NOV 2015 | AD 3.2-3 | 30 APR 2015 |
| AD 2.14-30a | 10 DEC 2015 | AD 2.16-35 | 12 NOV 2015 | AD 3.2-4 | 26 AUG 2010 |
| AD 2.14-31 | 04 FEB 2016 | AD 2.16-36 | 12 NOV 2015 | AD 3.2-20 | 15 DEC 2011 |
| AD 2.14-31a | 10 DEC 2015 | AD 2.16-37 | 12 NOV 2015 | AD 3.2-40 | 15 DEC 2011 |
| AD 2.14-52 | 23 JUN 2016 | AD 2.16-45 | 12 NOV 2015 | AD 3.3-1 | 04 JUN 2009 |
| AD 2.14-52a | 23 JUN 2016 | AD 2.16-51 | 12 NOV 2015 | AD 3.3-2 | 07 JUN 2007 |
| AD 2.14-71 | 03 MAR 2016 | AD 2.16-51a | 05 APR 2012 | AD 3.3-3 | 30 APR 2015 |
| AD 2.14-71a | 03 MAR 2016 | AD 2.16-53 | 12 NOV 2015 | AD 3.3-4 | 30 APR 2015 |
| AD 2.14-71b | 03 MAR 2016 | AD 2.16-53a | 05 APR 2012 | AD 3.3-20 | 25 JUN 2015 |
| AD 2.14-72 | 03 MAR 2016 | AD 2.16-91 | 12 NOV 2015 | AD 3.4-1 | 03 APR 2014 |
| AD 2.14-72a | 03 MAR 2016 | AD 2.16-91a | 14 NOV 2013 | AD 3.4-2 | 04 APR 2013 |
| AD 2.14-72b | 03 MAR 2016 | AD 2.16-93 | 12 NOV 2015 | AD 3.4-3 | 30 APR 2015 |
| AD 2.14-81 | 04 FEB 2016 | AD 2.16-93a | 05 APR 2012 | AD 3.4-4 | 09 JAN 2014 |
| AD 2.14-81a | 10 DEC 2015 | AD 2.17-1 | 20 AUG 2015 | AD 3.4-20 | 03 APR 2014 |
| AD 2.14-82 | 04 FEB 2016 | AD 2.17-2 | 21 OCT 2010 | AD 3.4-40 | 03 APR 2014 |
| AD 2.14-82a | 10 DEC 2015 | AD 2.17-3 | 28 MAY 2015 | AD 3.5-1 | 05 MAR 2015 |
| AD 2.15-1 | 10 DEC 2015 | AD 2.17-4 | 26 MAY 2016 | AD 3.5-2 | 05 MAR 2015 |
| AD 2.15-2 | 28 MAY 2015 | AD 2.17-5 | 30 APR 2015 | AD 3.5-3 | 05 MAR 2015 |
| AD 2.15-3 | 28 MAY 2015 | AD 2.17-20 | 01 JUL 2010 | AD 3.5-4 | 05 MAR 2015 |
| AD 2.15-4 | 28 MAY 2015 | AD 2.17-20a | 02 JUL 2010 | AD 3.5-20 | 05 MAR 2015 |
| AD 2.15-5 | 20 AUG 2015 | AD 2.17-22 | 21 OCT 2010 | | |
| AD 2.15-6 | 28 MAY 2015 | AD 2.17-25 | 29 JAN 1998 | | |
| AD 2.15-7 | 28 MAY 2015 | AD 2.17-51 | 17 NOV 2011 | | |
| AD 2.15-8 | 28 MAY 2015 | AD 2.17-51a | 17 NOV 2011 | | |
| AD 2.15-20 | 23 JUL 2015 | AD 2.17-81 | 17 NOV 2011 | | |
| AD 2.15-20a | 23 JUL 2015 | AD 2.17-81a | 17 NOV 2011 | | |
| AD 2.15-22 | 23 JUL 2015 | AD 2.18-1 | 20 AUG 2015 | | |
| AD 2.15-22a | 23 JUL 2015 | AD 2.18-2 | 20 OCT 2011 | | |
| AD 2.15-25 | 28 MAY 2015 | AD 2.18-3 | 27 AUG 2009 | | |
| AD 2.15-26 | 28 MAY 2015 | AD 2.18-4 | 30 APR 2015 | | |
| AD 2.15-29 | 07 APR 2011 | AD 2.18-20 | 27 AUG 2009 | | |
| AD 2.15-51 | 23 JUL 2015 | AD 2.18-40 | 27 AUG 2009 | | |
| AD 2.15-51a | 11 MAR 2010 | AD 2.19-1 | 10 DEC 2015 | | |
| AD 2.15-52 | 23 JUL 2015 | AD 2.19-2 | 30 APR 2015 | | |
| AD 2.15-52a | 11 MAR 2010 | AD 2.19-3 | 29 MAY 2014 | | |
| AD 2.15-91 | 23 JUL 2015 | AD 2.19-4 | 29 MAY 2014 | | |
| AD 2.15-91a | 11 MAR 2010 | AD 2.19-20 | 29 MAY 2014 | | |
| AD 2.15-92 | 23 JUL 2015 | AD 2.20-1 | 30 APR 2015 | | |
| AD 2.15-92a | 11 MAR 2010 | AD 2.20-2 | 05 FEB 2015 | | |
| AD 2.16-1 | 26 JUL 2012 | AD 2.20-3 | 05 FEB 2015 | | |
| AD 2.16-2 | 12 DEC 2013 | AD 2.20-4 | 05 FEB 2015 | | |
| AD 2.16-3 | 28 MAY 2015 | AD 2.20-20 | 26 AUG 2010 | | |
| AD 2.16-4 | 05 FEB 2015 | AD 2.20-21 | 30 JUN 2011 | | |
| AD 2.16-5 | 15 OCT 2015 | AD 2.20-40 | 05 APR 2012 | | |
| AD 2.16-6 | 14 NOV 2013 | AD 2.20-41 | 05 APR 2012 | | |
| AD 2.16-7 | 05 FEB 2015 | AD 2.21-1 | 05 APR 2012 | | |
| AD 2.16-8 | 05 FEB 2015 | AD 2.21-2 | 05 APR 2012 | | |
| AD 2.16-9 | 05 FEB 2015 | AD 2.21-3 | 05 APR 2012 | | |
| AD 2.16-10 | 05 APR 2012 | AD 2.21-4 | 30 APR 2015 | | |
| AD 2.16-11 | 23 JUN 2016 | AD 2.21-20 | 05 APR 2012 | | |
| AD 2.16-20 | 17 SEP 2015 | AD 2.21-40 | 09 JAN 2014 | | |

GEN 0.5 LIST OF HAND AMENDMENTS TO THE AIP

| AIP page(s) Affected | Amendment text | Introduced by AIP Amendment NO |
|---|--|-----------------------------------|
| 1 | 2 | 3 |
| AD 2.17-20 01 JUL 2010 | LRTC Aerodrome Chart, RWY bearing strength, correct and read "48/R/C/W/T" instead of "37/R/C/W/T". | AIRAC AIP AMDT 12/11 |
| AD 2.5-25 17 DEC 2009 AD 2.5-26 19 NOV 2009 | LROP, correct and read magnetic variation "5°E/2010" instead of indicated value. | AIRAC AIP AMDT 02/12 |
| AD 2.17-51/81 17 NOV 2011 | LRTC, DVOR/DME 'TLA', elevation of DME transmitting antenna, correct and read "300FT" instead of "400FT". | AIRAC AIP AMDT 02/13 |
| AD 2.1-81 05 APR 2012 | LRAR, Instrument Approach Chart, aerodrome elevation, correct and read "353 FT" instead of "352 FT". | AIRAC AIP AMDT 07/13 |
| AD 2.11-52 25 AUG 2011 | LROD, Instrument Approach Charts, delete the following obstacle: - obstacle type – 3 Cranes - elevation – 175M/575FT - markings/LGT – LGT - coordinates – 470232.32N 0215404.99E | AIRAC AIP AMDT 08/13 |
| AD 2.5-53/55/57/95/97 02 MAY 2013 | LROP, IACs , south MSA correct and read "2100 FT" instead of "1900 FT". | AIRAC AIP AMDT 10/13 |
| AIP ROMANIA | Correct and read: "CLUJ NAPOCA/Avram Iancu" instead of "CLUJ NAPOCA/Cluj Napoca". | AIRAC AIP AMDT 01/14 |
| AD 2.5-28/29 05 APR 2012 | Correct and read: "BUCURESTI/Henri Coandă" instead of "BUCUREȘTI/Otopeni". | AIRAC AIP AMDT 04/14 |
| AD 3.4-40 03 APR 2014 | Communication Facilities correct and read "BUCURESTI INFORMATION 129.4" instead of "BUCURESTI FIC 129.4" | AIRAC AIP AMDT 09/15 |
| AD 2.4-30/31/32/33 13 NOV 2014 AD 2.4-34/35/36/37 13 NOV 2014 AD 2.5-30 25 JUN 2015 AD 2.5-35/37 26 JUN 2014 | Restricted Areas managed by AMC correct and read as follows: LRTRA4 instead of LRR4, LRTRA26 instead of LRR26, LRTRA34 instead of LRR34, LRTRA38 instead of LRR38, LRTRA39 instead of LRR39, LRTRA58 instead of LRD58, LRTSA59 instead of LRD59, LRTSA61 instead of LRD61, LRTSA66 instead of LRD66, LRTSA67 instead of LRD67, LRTSA68 instead of LRD68, LRTSA69 instead of LRD69. | AIRAC AIP AMDT 11/15 |
| AD 2.5-53/55/57 02 MAY 2013 AD 2.5-95/97 02 MAY 2013 | Correct and read: LRTRA4 instead of LRR4, LRTSA61 instead of LRD61. | AIRAC AIP AMDT 11/15 |
| AD 2.10-51/52 05 MAR 2015 AD 2.10-91/92/93/94 11 DEC 2014 | Restricted Areas managed by AMC correct and read as follows: LRTRA10A instead of LRR10A, LRTRA11B instead of LRR11B, LRTRA2 instead of LRD64. | AIRAC AIP AMDT 11/15 |
| AD 2.15-20/20a 23 JUL 2015 AD 2.15-22/22a 23 JUL 2015 AD 2.15-25/26 28 MAY 2015 | Correct and read magnetic variation 5 degrees / 2015 instead of published value. | AIRAC AIP AMDT 11/15 |
| AD 2.15-51/52/91/92 23 JUL 2015 | Restricted Areas managed by AMC correct and read as follows: LRTRA71 instead of LRR71, LRTRA72 instead of LRR72, LRTRA81 instead of LRR81, LRTRA78 instead of LRD60. | AIRAC AIP AMDT 11/15 |
| AD 2.17-51/81 17 NOV 2011 | Correct and read: LRTRA40 instead of LRR40. | AIRAC AIP AMDT 11/15 |
| AD 2.1-45 12 NOV 2015 AD 2.16-45 12 NOV 2015 | Radar Minimum Altitude Chart - ICAO at LRAR, LRCK and LRTR aerodrome, correct and read name of the charts as follow: "ATC Surveillance Minimum Altitude Chart - ICAO". | AIRAC AIP AMDT 01/16 |
| AD 2.16-30/31/34/35/37 12 NOV 2015 | Quadrilateral 4600N – 4630N, 2230E – 2300E correct and read AMA 8100FT instead of 5000FT, quadrilateral 4630N – 4700N, 2200E – 2230E correct and read AMA 4700FT instead of 4100FT. | AIRAC AIP AMDT 03/16 |
| ENR 6-2 26 MAY 2016 | Communication Facilities box, delete Târgu Mureș TWR Freq.125.9, add new Freq 120.325 MHz, call sign Târgu Mureș TWR. | AIRAC AIP AMDT 06/16 |
| ENR 6-2 26 MAY 2016 | T74, segment GORUN – KENUX – BCU correct and read FL60 instead of 4000. | AIRAC AIP AMDT 06/16 |
| AD 2.12-52/81/82 16 DEC 2012 | On segment to TISAD, correct and read FL50 instead of FL40. | AIRAC AIP AMDT 06/16 |
| AD 2.8-20 15 DEC 2011 AD 2.8-25 26 AUG 2010 | Magnetic variation/Annual rate of change – updated to 6°E(2015)/6.2°E. | AIRAC AIP AMDT 06/16 |

| 1 | 2 | 3 |
|---|---|-------------------------|
| ENR 6-2 26 MAY 2016 | ARAD TMA label - delete vertical limits of FL175/2500 QNH. For Vertical limits of ARAD TMA see ENR 2.1-4. | AIRAC AIP AMDT 07/16 |
| ENR 6-2 26 MAY 2016 | BUCURESTI TMA label - delete vertical limits of FL175/2000 QNH. For Vertical limits of BUCURESTI TMA see ENR 2.1-5. | AIRAC AIP AMDT 07/16 |
| ENR 6-2 26 MAY 2016 | T90, segment COPSA - SIBIU NDB (SIB) correct and read minimum en-route altitude 5000FT AMSL instead of FL50. | AIRAC AIP AMDT 07/16 |
| ENR 6-2 26 MAY 2016 | T995, segment BLAJA - SIBIU NDB (SIB) correct and read minimum en-route altitude 5000FT AMSL instead of FL50. | AIRAC AIP AMDT 07/16 |
| ENR 6-2 26 MAY 2016 | Y559, segment BATIN - SIBIU NDB (SIB) correct and read minimum en-route altitude 6000FT AMSL instead of FL60. | AIRAC AIP AMDT 07/16 |
| ENR 6-2 26 MAY 2016 | Y574, segment INSIP - SIBIU NDB (SIB) correct and read minimum en-route altitude 5000FT AMSL instead of FL50. | AIRAC AIP AMDT 07/16 |
| AD 1.5-4 03 APR 2014 | Aerodrome/heliport certification status, correct and read: — column 1, Aerodrome name, row 2, LRBC: "BACĂU/George Enescu" instead of "BACĂU/Bacău"; — column 4, Remarks, row 2, LRBC: "Civ / Mil" instead of "Nil". | AIRAC AIP AMDT 08/16 |
| AD 2.7-25/26 26 MAY 2016 AD 2.7-30/33 21 JUL 2016 AD 2.7-31/34/35/37 23 JUN 2016 AD 2.7-52 04 FEB 2016 | LRCL, magnetic variation – Correct and read 5°E/2015 instead of 5°E/2010. | AIRAC AIP AMDT 08/16 |
| AD 2.17-20 01 JUL 2010 | LRTC, new RVR EQUIP, 1305M FM THR 34, on the right side. | AIRAC AIP AMDT 08/16 |
| AD 2.2-20/20a 23 JUN 2016 AD 2.2-22 30 APR 2015 AD 2.2-25/51a 02 MAY 2013 AD 2.2-36/37/51/91/93 26 MAY 2016 AD 2.2-91a/93a 01 MAY 2014 | LRBC, name of aerodrome correct and read George Enescu instead of Bacău. | AIRAC AIP AMDT 08/16 |
| ENR 6-2/ENR 6-2a 26 MAY 2016 | Communication Facility box. Delete "Bucuresti Information 129.4", add "For FIS Freq. See ENR 6-40". | AIRAC AIP AMDT 09/16 |
| ENR 6-1 26 MAY 2016 | Communication Facility box. Delete "Bucuresti Information 129.4". | AIRAC AIP AMDT 09/16 |

GEN 2.4 LOCATION INDICATORS

| 1. ENCODE | | 2. DECODE | |
|--|------------------|------------------|--|
| <i>Location</i> | <i>Indicator</i> | <i>Indicator</i> | <i>Location</i> |
| BUCUREȘTI (FIC/ACC/AIS/CAA/COM Centre) | LRBB | LRBB | BUCUREȘTI (FIC/ACC/AIS/CAA/COM Centre) |
| BUCUREȘTI/CENTRUL NAȚIONAL DE PROTECȚIE METEOROLOGICĂ A NAVIGAȚIEI AERIENE | LROM | LROM | BUCUREȘTI/CENTRUL NAȚIONAL DE PROTECȚIE METEOROLOGICĂ A NAVIGAȚIEI AERIENE |
| BUCUREȘTI/NATIONAL CENTRE OF AERONAUTICAL METEOROLOGY | LRAR | LRAR | BUCUREȘTI/NATIONAL CENTRE OF AERONAUTICAL METEOROLOGY |
| ARAD / Arad | LRBC | LRBC | ARAD / Arad |
| BACĂU / George Enescu | LRBM | LRBG | BACĂU / George Enescu |
| BAIA MARE / Baia Mare | LRBO | LRBH | BRAȘOV / Ghimbav |
| BOBOC (Mil) | LRCX | LRBK | BUCUREȘTI / Crystal Tower |
| BRAȘOV / Cobrex | LRBG | LRBM | MOARA VLĂSIEI / "Moara Vlăsiei"-Becker |
| BRAȘOV / Ghimbav | LRSP | LRBO | BAIA MARE / Baia Mare |
| BRAȘOV / Sânpetru | LRBS | LRBO | BOBOC (Mil) |
| BUCUREȘTI / Băneasa-Aurel Vlaicu | LRBH | LRBS | BUCUREȘTI / Băneasa-Aurel Vlaicu |
| BUCUREȘTI / Crystal Tower | LROP | LRCK | CONSTANȚA / Mihail Kogălniceanu- Constanța |
| BUCUREȘTI / Henri Coandă | LRCT | LRCL | CLUJ NAPOCA / Avram Iancu |
| CÂMPIA TURZII (Mil) | LRCL | LRCT | CÂMPIA TURZII (Mil) |
| CLUJ NAPOCA / Avram Iancu | LRCK | LRCV | CRAIOVA / Craiova |
| CONSTANȚA / Mihail Kogălniceanu- Constanța | LRCV | LRCX | BRAȘOV / Cobrex |
| CRAIOVA / Craiova | LRDS | LRDS | DEVESELU (Mil) |
| DEVESELU (Mil) | LRFT | LRFL | VATRA DORNEI / Floreni |
| FETEȘTI (Mil) | LRIC | LRFT | FETEȘTI (Mil) |
| IANCA (Mil) | LRIA | LRIA | IAȘI / Iași |
| IAȘI / Iași | LRCD | LRIC | IANCA (Mil) |
| MĂGURA / Sibiu | LRBK | LRCD | MĂGURA / Sibiu |
| MOARA VLĂSIEI / "Moara Vlăsiei"-Becker | LROD | LROD | ORADEA / Oradea |
| ORADEA / Oradea | LROP | LROP | BUCUREȘTI / Henri Coandă |
| PLOIEȘTI / Aero Taxi | LRPH | LRPH | PLOIEȘTI / Aero Taxi |
| PLOIEȘTI / Gheorghe Valentin Bibescu | LRPW | LRPW | PLOIEȘTI / Gheorghe Valentin Bibescu |
| SATU MARE / Satu Mare | LRSB | LRSB | SIBIU / Sibiu |
| SIBIU / Sibiu | LRSB | LRSB | SATU MARE / Satu Mare |
| SUCEAVA / Ștefan cel Mare-Suceava | LRSV | LRSV | BRAȘOV / Sânpetru |
| TÂRGU MUREȘ / Transilvania-Târgu Mureș | LRTM | LRSV | SUCEAVA / Ștefan cel Mare-Suceava |
| TIMIȘOARA / Traian Vuia | LRTC | LRTC | TULCEA / Delta Dunării |
| TITU (Mil) | LRTI | LRTI | TITU (Mil) |
| TULCEA / Delta Dunării | LRTZ | LRTM | TÂRGU MUREȘ / Transilvania-Târgu Mureș |
| TUZLA / Tuzla | LRTZ | LRTR | TIMIȘOARA / Traian Vuia |
| VATRA DORNEI / Floreni | LRFL | LRTZ | TUZLA / Tuzla |

GEN 2.7 SUNRISE / SUNSET TABLES**TABELE 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 22 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 2016 - JUNE 2017.

1.2 The times given for the beginning of civil morning twilight and end of civil evening twilight are calculated for an altitude of the Sun 6° below the horizon, as commonly used.

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 22 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 2016 - IUNIE 2017.

1.2 Orele date pentru ora civilă a crepusculului de dimineață și ora civilă a crepusculului de seară sunt calculate, de obicei, pentru o altitudine a Soarelui de 6° 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 | 0247 | 1830 | 1908 |
| 5 | 0212 | 0250 | 1828 | 1906 |
| 9 | 0216 | 0253 | 1826 | 1904 |
| 13 | 0220 | 0257 | 1824 | 1901 |
| 17 | 0224 | 0301 | 1821 | 1857 |
| 21 | 0229 | 0305 | 1817 | 1853 |
| 25 | 0234 | 0309 | 1813 | 1848 |
| 29 | 0239 | 0314 | 1808 | 1843 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0447 | 0518 | 1518 | 1549 |
| 6 | 0452 | 0524 | 1512 | 1544 |
| 10 | 0458 | 0530 | 1507 | 1539 |
| 14 | 0503 | 0535 | 1503 | 1535 |
| 18 | 0508 | 0541 | 1459 | 1532 |
| 22 | 0513 | 0546 | 1455 | 1529 |
| 26 | 0518 | 0551 | 1453 | 1526 |
| 30 | 0522 | 0556 | 1451 | 1524 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0440 | 0510 | 1623 | 1653 |
| 6 | 0433 | 0503 | 1628 | 1658 |
| 10 | 0425 | 0455 | 1634 | 1704 |
| 14 | 0418 | 0448 | 1639 | 1709 |
| 18 | 0410 | 0440 | 1645 | 1715 |
| 22 | 0402 | 0432 | 1650 | 1720 |
| 26 | 0354 | 0424 | 1656 | 1726 |
| 30 | 0346 | 0417 | 1701 | 1731 |

| | | | | |
|-------|------|------|------|------|
| AUG 2 | 0244 | 0319 | 1803 | 1837 |
| 6 | 0250 | 0324 | 1757 | 1831 |
| 10 | 0255 | 0329 | 1751 | 1824 |
| 14 | 0301 | 0334 | 1744 | 1817 |
| 18 | 0306 | 0339 | 1738 | 1810 |
| 22 | 0312 | 0344 | 1731 | 1802 |
| 26 | 0317 | 0349 | 1723 | 1755 |
| 30 | 0323 | 0354 | 1716 | 1747 |

| | | | | |
|-------|------|------|------|------|
| DEC 4 | 0527 | 0601 | 1449 | 1523 |
| 8 | 0531 | 0605 | 1449 | 1523 |
| 12 | 0534 | 0608 | 1449 | 1523 |
| 16 | 0537 | 0611 | 1450 | 1524 |
| 20 | 0539 | 0614 | 1451 | 1526 |
| 24 | 0541 | 0616 | 1453 | 1528 |
| 28 | 0542 | 0617 | 1456 | 1531 |

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|-------|------|------|------|------|
| APR 3 | 0338 | 0409 | 1706 | 1737 |
| 7 | 0331 | 0401 | 1712 | 1742 |
| 11 | 0323 | 0354 | 1717 | 1748 |
| 15 | 0315 | 0346 | 1722 | 1754 |
| 19 | 0308 | 0339 | 1727 | 1759 |
| 23 | 0300 | 0333 | 1733 | 1805 |
| 27 | 0253 | 0326 | 1738 | 1811 |

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|-------|------|------|------|------|
| SEP 3 | 0328 | 0359 | 1708 | 1739 |
| 7 | 0333 | 0404 | 1701 | 1731 |
| 11 | 0338 | 0409 | 1653 | 1723 |
| 15 | 0344 | 0414 | 1645 | 1715 |
| 19 | 0349 | 0419 | 1637 | 1707 |
| 23 | 0354 | 0424 | 1629 | 1699 |
| 27 | 0359 | 0429 | 1621 | 1691 |

| | | | | |
|-------|------|------|------|------|
| JAN 1 | 0543 | 0617 | 1500 | 1534 |
| 5 | 0542 | 0617 | 1504 | 1538 |
| 9 | 0542 | 0615 | 1508 | 1542 |
| 13 | 0540 | 0614 | 1513 | 1547 |
| 17 | 0538 | 0611 | 1518 | 1552 |
| 21 | 0535 | 0608 | 1524 | 1557 |
| 25 | 0532 | 0604 | 1530 | 1602 |
| 29 | 0528 | 0600 | 1536 | 1608 |

| | | | | |
|-------|------|------|------|------|
| MAY 1 | 0246 | 0320 | 1743 | 1817 |
| 5 | 0240 | 0314 | 1748 | 1822 |
| 9 | 0234 | 0308 | 1754 | 1828 |
| 13 | 0228 | 0303 | 1758 | 1833 |
| 17 | 0223 | 0258 | 1803 | 1839 |
| 21 | 0218 | 0254 | 1808 | 1844 |
| 25 | 0214 | 0251 | 1812 | 1849 |
| 29 | 0211 | 0248 | 1816 | 1853 |

| | | | | |
|-------|------|------|------|------|
| OCT 1 | 0404 | 0434 | 1614 | 1643 |
| 5 | 0410 | 0439 | 1606 | 1636 |
| 9 | 0415 | 0445 | 1558 | 1628 |
| 13 | 0420 | 0450 | 1551 | 1621 |
| 17 | 0425 | 0455 | 1544 | 1614 |
| 21 | 0431 | 0501 | 1537 | 1607 |
| 25 | 0436 | 0507 | 1530 | 1601 |
| 29 | 0441 | 0512 | 1524 | 1555 |

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|-------|------|------|------|------|
| FEB 2 | 0523 | 0555 | 1542 | 1613 |
| 6 | 0518 | 0550 | 1547 | 1619 |
| 10 | 0513 | 0544 | 1553 | 1625 |
| 14 | 0507 | 0538 | 1559 | 1630 |
| 18 | 0501 | 0531 | 1605 | 1636 |
| 22 | 0454 | 0524 | 1611 | 1641 |
| 26 | 0447 | 0517 | 1617 | 1647 |

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|-------|------|------|------|------|
| JUN 2 | 0208 | 0245 | 1820 | 1857 |
| 6 | 0206 | 0244 | 1823 | 1901 |
| 10 | 0204 | 0243 | 1825 | 1904 |
| 14 | 0204 | 0242 | 1828 | 1906 |
| 18 | 0204 | 0242 | 1829 | 1908 |
| 22 | 0205 | 0243 | 1830 | 1909 |
| 26 | 0206 | 0245 | 1830 | 1909 |
| 30 | 0208 | 0247 | 1830 | 1908 |

BACAU / George Enescu - LRBC
463119N 0265437E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0145 | 0223 | 1808 | 1847 |
| 5 | 0148 | 0226 | 1807 | 1846 |
| 9 | 0151 | 0229 | 1805 | 1843 |
| 13 | 0155 | 0233 | 1803 | 1840 |
| 17 | 0200 | 0237 | 1759 | 1836 |
| 21 | 0205 | 0241 | 1756 | 1832 |
| 25 | 0210 | 0246 | 1751 | 1827 |
| 29 | 0215 | 0250 | 1746 | 1822 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0425 | 0456 | 1455 | 1526 |
| 6 | 0430 | 0502 | 1449 | 1521 |
| 10 | 0436 | 0508 | 1444 | 1516 |
| 14 | 0441 | 0514 | 1439 | 1512 |
| 18 | 0446 | 0519 | 1435 | 1508 |
| 22 | 0451 | 0525 | 1432 | 1505 |
| 26 | 0456 | 0530 | 1429 | 1503 |
| 30 | 0501 | 0535 | 1427 | 1501 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0418 | 0448 | 1600 | 1630 |
| 6 | 0410 | 0440 | 1605 | 1635 |
| 10 | 0403 | 0433 | 1611 | 1641 |
| 14 | 0355 | 0425 | 1617 | 1647 |
| 18 | 0347 | 0417 | 1622 | 1652 |
| 22 | 0339 | 0409 | 1628 | 1658 |
| 26 | 0331 | 0402 | 1633 | 1703 |
| 30 | 0323 | 0354 | 1639 | 1709 |

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|-------|------|------|------|------|
| AUG 2 | 0220 | 0255 | 1741 | 1816 |
| 6 | 0226 | 0300 | 1735 | 1809 |
| 10 | 0232 | 0305 | 1729 | 1803 |
| 14 | 0237 | 0310 | 1723 | 1756 |
| 18 | 0243 | 0315 | 1716 | 1748 |
| 22 | 0248 | 0320 | 1709 | 1741 |
| 26 | 0254 | 0325 | 1701 | 1733 |
| 30 | 0259 | 0331 | 1654 | 1725 |

| | | | | |
|-------|------|------|------|------|
| DEC 4 | 0505 | 0539 | 1425 | 1500 |
| 8 | 0509 | 0544 | 1425 | 1459 |
| 12 | 0512 | 0547 | 1425 | 1500 |
| 16 | 0515 | 0550 | 1426 | 1500 |
| 20 | 0518 | 0553 | 1427 | 1502 |
| 24 | 0519 | 0554 | 1429 | 1504 |
| 28 | 0521 | 0555 | 1432 | 1507 |

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|-------|------|------|------|------|
| APR 3 | 0315 | 0346 | 1644 | 1715 |
| 7 | 0307 | 0338 | 1649 | 1720 |
| 11 | 0300 | 0331 | 1655 | 1726 |
| 15 | 0252 | 0323 | 1700 | 1732 |
| 19 | 0244 | 0316 | 1706 | 1738 |
| 23 | 0237 | 0309 | 1711 | 1743 |
| 27 | 0230 | 0303 | 1716 | 1749 |

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|-------|------|------|------|------|
| SEP 3 | 0305 | 0336 | 1646 | 1717 |
| 7 | 0310 | 0341 | 1638 | 1709 |
| 11 | 0315 | 0346 | 1631 | 1701 |
| 15 | 0321 | 0351 | 1623 | 1693 |
| 19 | 0326 | 0356 | 1615 | 1685 |
| 23 | 0331 | 0401 | 1607 | 1677 |
| 27 | 0336 | 0406 | 1599 | 1669 |

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|-------|------|------|------|------|
| JAN 1 | 0521 | 0556 | 1436 | 1510 |
| 5 | 0521 | 0555 | 1440 | 1514 |
| 9 | 0520 | 0554 | 1444 | 1519 |
| 13 | 0518 | 0552 | 1449 | 1523 |
| 17 | 0516 | 0550 | 1455 | 1528 |
| 21 | 0513 | 0546 | 1500 | 1533 |
| 25 | 0510 | 0543 | 1506 | 1539 |
| 29 | 0506 | 0538 | 1512 | 1544 |

| | | | | |
|-------|------|------|------|------|
| MAY 1 | 0223 | 0256 | 1722 | 1755 |
| 5 | 0216 | 0250 | 1727 | 1801 |
| 9 | 0210 | 0245 | 1732 | 1807 |
| 13 | 0204 | 0239 | 1737 | 1812 |
| 17 | 0159 | 0235 | 1742 | 1818 |
| 21 | 0154 | 0231 | 1746 | 1823 |
| 25 | 0150 | 0227 | 1751 | 1828 |
| 29 | 0146 | 0224 | 1755 | 1832 |

| | | | | |
|-------|------|------|------|------|
| OCT 1 | 0342 | 0412 | 1551 | 1621 |
| 5 | 0347 | 0417 | 1543 | 1613 |
| 9 | 0352 | 0422 | 1535 | 1606 |
| 13 | 0358 | 0428 | 1528 | 1558 |
| 17 | 0403 | 0433 | 1521 | 1551 |
| 21 | 0408 | 0439 | 1514 | 1544 |
| 25 | 0414 | 0445 | 1507 | 1538 |
| 29 | 0419 | 0450 | 1501 | 1532 |

| | | | | |
|-------|------|------|------|------|
| FEB 2 | 0501 | 0533 | 1518 | 1550 |
| 6 | 0456 | 0528 | 1524 | 1556 |
| 10 | 0451 | 0522 | 1530 | 1601 |
| 14 | 0445 | 0516 | 1536 | 1607 |
| 18 | 0439 | 0509 | 1542 | 1613 |
| 22 | 0432 | 0502 | 1548 | 1619 |
| 26 | 0425 | 0455 | 1554 | 1624 |

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|-------|------|------|------|------|
| JUN 2 | 0143 | 0222 | 1758 | 1837 |
| 6 | 0141 | 0220 | 1802 | 1840 |
| 10 | 0140 | 0219 | 1804 | 1843 |
| 14 | 0139 | 0218 | 1806 | 1845 |
| 18 | 0139 | 0218 | 1808 | 1847 |
| 22 | 0140 | 0219 | 1809 | 1848 |
| 26 | 0142 | 0221 | 1809 | 1848 |
| 30 | 0144 | 0223 | 1809 | 1848 |



NAVODARI / Midia-Constanta - LRM
441944N 0283925E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL | 1 | 0149 | 0225 | 1753 |
| | 5 | 0152 | 0228 | 1752 |
| | 9 | 0155 | 0231 | 1750 |
| | 13 | 0159 | 0234 | 1748 |
| | 17 | 0203 | 0238 | 1745 |
| | 21 | 0207 | 0241 | 1741 |
| | 25 | 0212 | 0246 | 1737 |
| | 29 | 0217 | 0250 | 1733 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV | 2 | 0414 | 0444 | 1452 |
| | 6 | 0419 | 0450 | 1447 |
| | 10 | 0424 | 0455 | 1443 |
| | 14 | 0429 | 0501 | 1438 |
| | 18 | 0434 | 0506 | 1435 |
| | 22 | 0439 | 0511 | 1432 |
| | 26 | 0444 | 0516 | 1429 |
| | 30 | 0448 | 0520 | 1427 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR | 2 | 0410 | 0439 | 1555 |
| | 6 | 0403 | 0432 | 1600 |
| | 10 | 0356 | 0425 | 1605 |
| | 14 | 0349 | 0418 | 1610 |
| | 18 | 0341 | 0410 | 1615 |
| | 22 | 0334 | 0403 | 1620 |
| | 26 | 0327 | 0356 | 1625 |
| | 30 | 0319 | 0348 | 1630 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG | 2 | 0221 | 0254 | 1728 |
| | 6 | 0226 | 0259 | 1723 |
| | 10 | 0231 | 0303 | 1717 |
| | 14 | 0237 | 0308 | 1711 |
| | 18 | 0242 | 0313 | 1704 |
| | 22 | 0247 | 0317 | 1658 |
| | 26 | 0252 | 0322 | 1651 |
| | 30 | 0257 | 0326 | 1644 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC | 4 | 0452 | 0525 | 1426 |
| | 8 | 0456 | 0529 | 1426 |
| | 12 | 0459 | 0532 | 1426 |
| | 16 | 0502 | 0535 | 1427 |
| | 20 | 0504 | 0537 | 1428 |
| | 24 | 0506 | 0539 | 1431 |
| | 28 | 0507 | 0540 | 1433 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR | 3 | 0312 | 0341 | 1635 |
| | 7 | 0304 | 0334 | 1640 |
| | 11 | 0257 | 0327 | 1645 |
| | 15 | 0250 | 0320 | 1650 |
| | 19 | 0243 | 0313 | 1655 |
| | 23 | 0236 | 0307 | 1700 |
| | 27 | 0229 | 0300 | 1704 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP | 3 | 0301 | 0331 | 1637 |
| | 7 | 0306 | 0336 | 1630 |
| | 11 | 0311 | 0340 | 1622 |
| | 15 | 0316 | 0345 | 1615 |
| | 19 | 0321 | 0350 | 1607 |
| | 23 | 0325 | 0354 | 1600 |
| | 27 | 0330 | 0359 | 1552 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN | 1 | 0508 | 0541 | 1437 |
| | 5 | 0508 | 0540 | 1441 |
| | 9 | 0507 | 0540 | 1445 |
| | 13 | 0506 | 0538 | 1450 |
| | 17 | 0504 | 0536 | 1455 |
| | 21 | 0501 | 0533 | 1500 |
| | 25 | 0458 | 0529 | 1505 |
| | 29 | 0454 | 0525 | 1511 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY | 1 | 0223 | 0255 | 1709 |
| | 5 | 0217 | 0249 | 1714 |
| | 9 | 0211 | 0244 | 1719 |
| | 13 | 0206 | 0239 | 1723 |
| | 17 | 0201 | 0235 | 1728 |
| | 21 | 0157 | 0231 | 1732 |
| | 25 | 0153 | 0228 | 1736 |
| | 29 | 0150 | 0225 | 1740 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT | 1 | 0335 | 0404 | 1545 |
| | 5 | 0340 | 0409 | 1538 |
| | 9 | 0344 | 0413 | 1530 |
| | 13 | 0349 | 0418 | 1523 |
| | 17 | 0354 | 0423 | 1517 |
| | 21 | 0359 | 0429 | 1510 |
| | 25 | 0404 | 0434 | 1504 |
| | 29 | 0409 | 0439 | 1458 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB | 2 | 0450 | 0521 | 1516 |
| | 6 | 0446 | 0516 | 1522 |
| | 10 | 0441 | 0511 | 1528 |
| | 14 | 0435 | 0505 | 1533 |
| | 18 | 0429 | 0459 | 1539 |
| | 22 | 0423 | 0452 | 1544 |
| | 26 | 0417 | 0446 | 1549 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN | 2 | 0147 | 0223 | 1743 |
| | 6 | 0145 | 0221 | 1746 |
| | 10 | 0144 | 0220 | 1749 |
| | 14 | 0144 | 0220 | 1751 |
| | 18 | 0144 | 0220 | 1752 |
| | 22 | 0145 | 0221 | 1753 |
| | 26 | 0146 | 0223 | 1753 |
| | 30 | 0148 | 0224 | 1753 |

ORADEA / Oradea - LROD
470131N 0215409E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL | 1 | 0202 | 0241 | 1831 |
| | 5 | 0205 | 0244 | 1829 |
| | 9 | 0209 | 0247 | 1827 |
| | 13 | 0213 | 0251 | 1825 |
| | 17 | 0217 | 0255 | 1821 |
| | 21 | 0222 | 0259 | 1817 |
| | 25 | 0228 | 0304 | 1813 |
| | 29 | 0233 | 0309 | 1808 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV | 2 | 0446 | 0517 | 1513 |
| | 6 | 0451 | 0523 | 1508 |
| | 10 | 0457 | 0529 | 1503 |
| | 14 | 0502 | 0535 | 1458 |
| | 18 | 0507 | 0541 | 1454 |
| | 22 | 0513 | 0546 | 1450 |
| | 26 | 0518 | 0552 | 1447 |
| | 30 | 0522 | 0557 | 1445 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR | 2 | 0438 | 0508 | 1619 |
| | 6 | 0431 | 0501 | 1625 |
| | 10 | 0423 | 0453 | 1631 |
| | 14 | 0415 | 0445 | 1637 |
| | 18 | 0407 | 0437 | 1642 |
| | 22 | 0359 | 0429 | 1648 |
| | 26 | 0351 | 0421 | 1653 |
| | 30 | 0343 | 0413 | 1659 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG | 2 | 0239 | 0314 | 1803 |
| | 6 | 0244 | 0319 | 1757 |
| | 10 | 0250 | 0324 | 1750 |
| | 14 | 0256 | 0329 | 1744 |
| | 18 | 0301 | 0334 | 1737 |
| | 22 | 0307 | 0339 | 1730 |
| | 26 | 0313 | 0345 | 1722 |
| | 30 | 0318 | 0350 | 1715 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC | 4 | 0527 | 0601 | 1444 |
| | 8 | 0531 | 0606 | 1443 |
| | 12 | 0534 | 0609 | 1443 |
| | 16 | 0537 | 0612 | 1444 |
| | 20 | 0539 | 0615 | 1445 |
| | 24 | 0541 | 0616 | 1447 |
| | 28 | 0542 | 0617 | 1450 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR | 3 | 0335 | 0405 | 1704 |
| | 7 | 0326 | 0358 | 1710 |
| | 11 | 0318 | 0350 | 1715 |
| | 15 | 0311 | 0343 | 1721 |
| | 19 | 0303 | 0335 | 1727 |
| | 23 | 0255 | 0328 | 1732 |
| | 27 | 0248 | 0321 | 1737 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP | 3 | 0324 | 0355 | 1707 |
| | 7 | 0329 | 0400 | 1659 |
| | 11 | 0335 | 0405 | 1651 |
| | 15 | 0340 | 0411 | 1643 |
| | 19 | 0346 | 0416 | 1635 |
| | 23 | 0351 | 0421 | 1627 |
| | 27 | 0356 | 0427 | 1619 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN | 1 | 0543 | 0618 | 1454 |
| | 5 | 0542 | 0617 | 1458 |
| | 9 | 0541 | 0616 | 1503 |
| | 13 | 0540 | 0614 | 1508 |
| | 17 | 0537 | 0611 | 1513 |
| | 21 | 0535 | 0608 | 1519 |
| | 25 | 0531 | 0604 | 1525 |
| | 29 | 0527 | 0600 | 1531 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY | 1 | 0241 | 0315 | 1743 |
| | 5 | 0234 | 0309 | 1748 |
| | 9 | 0228 | 0303 | 1754 |
| | 13 | 0222 | 0258 | 1759 |
| | 17 | 0217 | 0253 | 1804 |
| | 21 | 0212 | 0249 | 1808 |
| | 25 | 0207 | 0245 | 1813 |
| | 29 | 0204 | 0242 | 1817 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT | 1 | 0402 | 0432 | 1611 |
| | 5 | 0407 | 0437 | 1603 |
| | 9 | 0412 | 0443 | 1555 |
| | 13 | 0418 | 0448 | 1547 |
| | 17 | 0423 | 0454 | 1540 |
| | 21 | 0429 | 0500 | 1533 |
| | 25 | 0434 | 0506 | 1526 |
| | 29 | 0440 | 0512 | 1520 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB | 2 | 0522 | 0555 | 1537 |
| | 6 | 0517 | 0549 | 1543 |
| | 10 | 0511 | 0543 | 1549 |
| | 14 | 0505 | 0537 | 1555 |
| | 18 | 0459 | 0530 | 1601 |
| | 22 | 0452 | 0523 | 1607 |
| | 26 | 0445 | 0516 | 1613 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN | 2 | 0201 | 0240 | 1820 |
| | 6 | 0159 | 0238 | 1824 |
| | 10 | 0157 | 0237 | 1826 |
| | 14 | 0156 | 0236 | 1829 |
| | 18 | 0156 | 0236 | 1830 |
| | 22 | 0157 | 0237 | 1831 |
| | 26 | 0159 | 0239 | 1831 |
| | 30 | 0201 | 0241 | 1831 |



PITESTI / Geamana - LRPT
444903N 0245352E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0201 | 0238 | 1810 | 1846 |
| 5 | 0204 | 0241 | 1808 | 1845 |
| 9 | 0208 | 0244 | 1807 | 1843 |
| 13 | 0212 | 0247 | 1804 | 1840 |
| 17 | 0216 | 0251 | 1801 | 1837 |
| 21 | 0220 | 0255 | 1758 | 1833 |
| 25 | 0225 | 0259 | 1754 | 1828 |
| 29 | 0230 | 0303 | 1749 | 1823 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0430 | 0501 | 1506 | 1537 |
| 6 | 0435 | 0506 | 1501 | 1532 |
| 10 | 0440 | 0511 | 1456 | 1528 |
| 14 | 0445 | 0517 | 1452 | 1524 |
| 18 | 0450 | 0522 | 1448 | 1520 |
| 22 | 0455 | 0527 | 1445 | 1517 |
| 26 | 0500 | 0532 | 1443 | 1515 |
| 30 | 0504 | 0537 | 1441 | 1514 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0425 | 0454 | 1609 | 1639 |
| 6 | 0418 | 0447 | 1615 | 1644 |
| 10 | 0411 | 0440 | 1620 | 1649 |
| 14 | 0404 | 0433 | 1625 | 1654 |
| 18 | 0356 | 0425 | 1630 | 1659 |
| 22 | 0349 | 0418 | 1635 | 1704 |
| 26 | 0341 | 0410 | 1640 | 1710 |
| 30 | 0334 | 0403 | 1645 | 1715 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG 2 | 0235 | 0308 | 1744 | 1817 |
| 6 | 0240 | 0313 | 1739 | 1812 |
| 10 | 0245 | 0317 | 1733 | 1805 |
| 14 | 0250 | 0322 | 1727 | 1759 |
| 18 | 0255 | 0327 | 1720 | 1752 |
| 22 | 0301 | 0331 | 1714 | 1745 |
| 26 | 0306 | 0336 | 1707 | 1737 |
| 30 | 0311 | 0341 | 1700 | 1730 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC 4 | 0508 | 0541 | 1440 | 1513 |
| 8 | 0512 | 0545 | 1439 | 1512 |
| 12 | 0515 | 0549 | 1439 | 1513 |
| 16 | 0518 | 0552 | 1440 | 1514 |
| 20 | 0521 | 0554 | 1442 | 1515 |
| 24 | 0522 | 0556 | 1444 | 1517 |
| 28 | 0524 | 0557 | 1447 | 1520 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR 3 | 0326 | 0356 | 1650 | 1720 |
| 7 | 0318 | 0348 | 1655 | 1725 |
| 11 | 0311 | 0341 | 1700 | 1731 |
| 15 | 0304 | 0334 | 1705 | 1736 |
| 19 | 0256 | 0327 | 1711 | 1741 |
| 23 | 0249 | 0321 | 1716 | 1747 |
| 27 | 0243 | 0314 | 1720 | 1752 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP 3 | 0316 | 0346 | 1652 | 1722 |
| 7 | 0321 | 0350 | 1645 | 1715 |
| 11 | 0326 | 0355 | 1637 | 1707 |
| 15 | 0330 | 0400 | 1630 | 1659 |
| 19 | 0335 | 0404 | 1622 | 1651 |
| 23 | 0340 | 0409 | 1615 | 1644 |
| 27 | 0345 | 0414 | 1607 | 1636 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN 1 | 0524 | 0557 | 1450 | 1523 |
| 5 | 0524 | 0557 | 1454 | 1527 |
| 9 | 0523 | 0556 | 1458 | 1531 |
| 13 | 0522 | 0555 | 1503 | 1536 |
| 17 | 0520 | 0552 | 1508 | 1540 |
| 21 | 0517 | 0549 | 1514 | 1545 |
| 25 | 0514 | 0546 | 1519 | 1551 |
| 29 | 0510 | 0542 | 1525 | 1556 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY 1 | 0236 | 0308 | 1725 | 1758 |
| 5 | 0230 | 0303 | 1730 | 1803 |
| 9 | 0224 | 0258 | 1735 | 1808 |
| 13 | 0219 | 0253 | 1740 | 1814 |
| 17 | 0214 | 0248 | 1744 | 1819 |
| 21 | 0210 | 0244 | 1749 | 1824 |
| 25 | 0206 | 0241 | 1753 | 1828 |
| 29 | 0203 | 0238 | 1756 | 1832 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT 1 | 0350 | 0419 | 1600 | 1629 |
| 5 | 0355 | 0424 | 1552 | 1621 |
| 9 | 0400 | 0429 | 1545 | 1614 |
| 13 | 0405 | 0434 | 1538 | 1607 |
| 17 | 0410 | 0439 | 1531 | 1601 |
| 21 | 0415 | 0444 | 1524 | 1554 |
| 25 | 0420 | 0450 | 1518 | 1548 |
| 29 | 0425 | 0455 | 1512 | 1542 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB 2 | 0506 | 0537 | 1530 | 1601 |
| 6 | 0501 | 0532 | 1536 | 1607 |
| 10 | 0456 | 0527 | 1542 | 1612 |
| 14 | 0451 | 0521 | 1547 | 1617 |
| 18 | 0445 | 0515 | 1553 | 1623 |
| 22 | 0439 | 0508 | 1558 | 1628 |
| 26 | 0432 | 0501 | 1604 | 1633 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN 2 | 0200 | 0236 | 1800 | 1836 |
| 6 | 0158 | 0235 | 1803 | 1839 |
| 10 | 0157 | 0234 | 1805 | 1842 |
| 14 | 0156 | 0233 | 1807 | 1845 |
| 18 | 0156 | 0233 | 1809 | 1846 |
| 22 | 0157 | 0234 | 1810 | 1847 |
| 26 | 0159 | 0236 | 1810 | 1847 |
| 30 | 0201 | 0238 | 1810 | 1847 |

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

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0157 | 0234 | 1806 | 1843 |
| 5 | 0200 | 0236 | 1805 | 1841 |
| 9 | 0203 | 0239 | 1803 | 1839 |
| 13 | 0207 | 0243 | 1800 | 1836 |
| 17 | 0211 | 0246 | 1757 | 1833 |
| 21 | 0215 | 0250 | 1754 | 1829 |
| 25 | 0220 | 0255 | 1750 | 1824 |
| 29 | 0225 | 0259 | 1745 | 1819 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0426 | 0457 | 1502 | 1532 |
| 6 | 0431 | 0502 | 1457 | 1528 |
| 10 | 0436 | 0507 | 1452 | 1523 |
| 14 | 0441 | 0513 | 1448 | 1519 |
| 18 | 0446 | 0518 | 1444 | 1516 |
| 22 | 0451 | 0523 | 1441 | 1513 |
| 26 | 0456 | 0528 | 1438 | 1511 |
| 30 | 0500 | 0533 | 1436 | 1509 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0421 | 0450 | 1605 | 1634 |
| 6 | 0414 | 0443 | 1610 | 1639 |
| 10 | 0407 | 0436 | 1616 | 1645 |
| 14 | 0359 | 0429 | 1621 | 1650 |
| 18 | 0352 | 0421 | 1626 | 1655 |
| 22 | 0344 | 0414 | 1631 | 1700 |
| 26 | 0337 | 0406 | 1636 | 1705 |
| 30 | 0329 | 0359 | 1641 | 1711 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG 2 | 0230 | 0303 | 1740 | 1814 |
| 6 | 0235 | 0308 | 1735 | 1808 |
| 10 | 0240 | 0313 | 1729 | 1801 |
| 14 | 0246 | 0317 | 1723 | 1755 |
| 18 | 0251 | 0322 | 1716 | 1748 |
| 22 | 0256 | 0327 | 1710 | 1741 |
| 26 | 0301 | 0332 | 1703 | 1733 |
| 30 | 0306 | 0336 | 1656 | 1726 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC 4 | 0504 | 0538 | 1435 | 1508 |
| 8 | 0508 | 0541 | 1434 | 1508 |
| 12 | 0511 | 0545 | 1435 | 1508 |
| 16 | 0514 | 0548 | 1435 | 1509 |
| 20 | 0517 | 0550 | 1437 | 1511 |
| 24 | 0518 | 0552 | 1439 | 1513 |
| 28 | 0520 | 0553 | 1442 | 1516 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR 3 | 0322 | 0351 | 1646 | 1716 |
| 7 | 0314 | 0344 | 1651 | 1721 |
| 11 | 0306 | 0337 | 1656 | 1727 |
| 15 | 0259 | 0330 | 1701 | 1732 |
| 19 | 0252 | 0323 | 1706 | 1737 |
| 23 | 0245 | 0316 | 1711 | 1743 |
| 27 | 0238 | 0310 | 1716 | 1748 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP 3 | 0311 | 0341 | 1648 | 1718 |
| 7 | 0316 | 0346 | 1641 | 1710 |
| 11 | 0321 | 0351 | 1633 | 1703 |
| 15 | 0326 | 0355 | 1626 | 1655 |
| 19 | 0331 | 0400 | 1618 | 1647 |
| 23 | 0336 | 0405 | 1610 | 1640 |
| 27 | 0341 | 0410 | 1603 | 1632 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN 1 | 0520 | 0554 | 1445 | 1519 |
| 5 | 0520 | 0553 | 1449 | 1523 |
| 9 | 0519 | 0552 | 1454 | 1527 |
| 13 | 0518 | 0551 | 1459 | 1531 |
| 17 | 0516 | 0548 | 1504 | 1536 |
| 21 | 0513 | 0545 | 1509 | 1541 |
| 25 | 0510 | 0542 | 1514 | 1546 |
| 29 | 0506 | 0538 | 1520 | 1551 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY 1 | 0232 | 0304 | 1721 | 1754 |
| 5 | 0225 | 0258 | 1726 | 1759 |
| 9 | 0220 | 0253 | 1731 | 1805 |
| 13 | 0214 | 0248 | 1736 | 1810 |
| 17 | 0209 | 0244 | 1740 | 1815 |
| 21 | 0205 | 0240 | 1745 | 1820 |
| 25 | 0201 | 0236 | 1749 | 1824 |
| 29 | 0158 | 0234 | 1753 | 1829 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT 1 | 0346 | 0415 | 1555 | 1624 |
| 5 | 0351 | 0420 | 1548 | 1617 |
| 9 | 0355 | 0425 | 1541 | 1610 |
| 13 | 0400 | 0430 | 1534 | 1603 |
| 17 | 0405 | 0435 | 1527 | 1556 |
| 21 | 0411 | 0440 | 1520 | 1550 |
| 25 | 0416 | 0446 | 1514 | 1544 |
| 29 | 0421 | 0451 | 1508 | 1538 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB 2 | 0502 | 0533 | 1526 | 1557 |
| 6 | 0457 | 0528 | 1531 | 1602 |
| 10 | 0452 | 0523 | 1537 | 1607 |
| 14 | 0447 | 0517 | 1543 | 1613 |
| 18 | 0441 | 0511 | 1548 | 1618 |
| 22 | 0434 | 0504 | 1554 | 1624 |
| 26 | 0428 | 0457 | 1600 | 1629 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN 2 | 0155 | 0231 | 1756 | 1832 |
| 6 | 0153 | 0230 | 1759 | 1836 |
| 10 | 0152 | 0229 | 1802 | 1839 |
| 14 | 0151 | 0229 | 1804 | 1841 |
| 18 | 0151 | 0229 | 1805 | 1842 |
| 22 | 0152 | 0230 | 1806 | 1843 |
| 26 | 0154 | 0231 | 1806 | 1843 |
| 30 | 0156 | 0233 | 1806 | 1843 |



SATU MARE / Satu Mare - LRSM
474212N 0225308E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL | 1 | 0154 | 0234 | 1830 |
| | 5 | 0157 | 0237 | 1828 |
| | 9 | 0201 | 0241 | 1826 |
| | 13 | 0205 | 0244 | 1823 |
| | 17 | 0210 | 0248 | 1820 |
| | 21 | 0215 | 0253 | 1816 |
| | 25 | 0221 | 0258 | 1811 |
| | 29 | 0226 | 0303 | 1806 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV | 2 | 0443 | 0515 | 1508 |
| | 6 | 0448 | 0521 | 1502 |
| | 10 | 0454 | 0527 | 1457 |
| | 14 | 0500 | 0533 | 1452 |
| | 18 | 0505 | 0539 | 1448 |
| | 22 | 0510 | 0545 | 1444 |
| | 26 | 0516 | 0550 | 1441 |
| | 30 | 0520 | 0555 | 1439 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR | 2 | 0434 | 0505 | 1615 |
| | 6 | 0427 | 0457 | 1621 |
| | 10 | 0419 | 0449 | 1627 |
| | 14 | 0411 | 0441 | 1632 |
| | 18 | 0403 | 0433 | 1638 |
| | 22 | 0354 | 0425 | 1644 |
| | 26 | 0346 | 0417 | 1650 |
| | 30 | 0338 | 0409 | 1655 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG | 2 | 0232 | 0308 | 1801 |
| | 6 | 0238 | 0313 | 1755 |
| | 10 | 0244 | 0318 | 1748 |
| | 14 | 0250 | 0323 | 1741 |
| | 18 | 0255 | 0329 | 1734 |
| | 22 | 0301 | 0334 | 1727 |
| | 26 | 0307 | 0340 | 1719 |
| | 30 | 0313 | 0345 | 1712 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC | 4 | 0525 | 0600 | 1437 |
| | 8 | 0529 | 0604 | 1436 |
| | 12 | 0532 | 0608 | 1436 |
| | 16 | 0535 | 0611 | 1437 |
| | 20 | 0538 | 0614 | 1438 |
| | 24 | 0539 | 0615 | 1441 |
| | 28 | 0540 | 0616 | 1444 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR | 3 | 0330 | 0401 | 1701 |
| | 7 | 0321 | 0353 | 1707 |
| | 11 | 0313 | 0345 | 1713 |
| | 15 | 0305 | 0337 | 1718 |
| | 19 | 0257 | 0330 | 1724 |
| | 23 | 0249 | 0323 | 1730 |
| | 27 | 0242 | 0316 | 1735 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP | 3 | 0319 | 0350 | 1704 |
| | 7 | 0324 | 0356 | 1656 |
| | 11 | 0330 | 0401 | 1647 |
| | 15 | 0336 | 0406 | 1639 |
| | 19 | 0341 | 0412 | 1631 |
| | 23 | 0347 | 0417 | 1623 |
| | 27 | 0352 | 0423 | 1615 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN | 1 | 0541 | 0616 | 1447 |
| | 5 | 0540 | 0616 | 1451 |
| | 9 | 0539 | 0615 | 1456 |
| | 13 | 0538 | 0612 | 1501 |
| | 17 | 0535 | 0610 | 1507 |
| | 21 | 0532 | 0606 | 1513 |
| | 25 | 0529 | 0602 | 1519 |
| | 29 | 0524 | 0558 | 1525 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY | 1 | 0235 | 0309 | 1741 |
| | 5 | 0228 | 0303 | 1746 |
| | 9 | 0221 | 0257 | 1752 |
| | 13 | 0215 | 0252 | 1757 |
| | 17 | 0210 | 0247 | 1802 |
| | 21 | 0205 | 0242 | 1807 |
| | 25 | 0200 | 0239 | 1811 |
| | 29 | 0156 | 0235 | 1816 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT | 1 | 0358 | 0428 | 1606 |
| | 5 | 0403 | 0434 | 1558 |
| | 9 | 0409 | 0440 | 1550 |
| | 13 | 0414 | 0445 | 1543 |
| | 17 | 0420 | 0451 | 1535 |
| | 21 | 0426 | 0457 | 1528 |
| | 25 | 0431 | 0503 | 1521 |
| | 29 | 0437 | 0509 | 1514 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB | 2 | 0520 | 0552 | 1531 |
| | 6 | 0514 | 0547 | 1537 |
| | 10 | 0509 | 0541 | 1544 |
| | 14 | 0502 | 0534 | 1550 |
| | 18 | 0456 | 0527 | 1556 |
| | 22 | 0449 | 0520 | 1603 |
| | 26 | 0442 | 0513 | 1609 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN | 2 | 0153 | 0233 | 1819 |
| | 6 | 0151 | 0231 | 1823 |
| | 10 | 0149 | 0230 | 1825 |
| | 14 | 0148 | 0229 | 1828 |
| | 18 | 0148 | 0229 | 1829 |
| | 22 | 0149 | 0230 | 1830 |
| | 26 | 0151 | 0232 | 1830 |
| | 30 | 0153 | 0234 | 1830 |

SIBIU / Sibiu - LRSB
454709N 0240508E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL | 1 | 0200 | 0238 | 1817 |
| | 5 | 0203 | 0240 | 1815 |
| | 9 | 0206 | 0243 | 1814 |
| | 13 | 0210 | 0247 | 1811 |
| | 17 | 0215 | 0251 | 1808 |
| | 21 | 0219 | 0255 | 1804 |
| | 25 | 0224 | 0259 | 1800 |
| | 29 | 0229 | 0304 | 1755 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV | 2 | 0435 | 0506 | 1508 |
| | 6 | 0440 | 0512 | 1502 |
| | 10 | 0445 | 0517 | 1457 |
| | 14 | 0451 | 0523 | 1453 |
| | 18 | 0456 | 0528 | 1449 |
| | 22 | 0501 | 0534 | 1445 |
| | 26 | 0506 | 0539 | 1443 |
| | 30 | 0510 | 0544 | 1441 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR | 2 | 0429 | 0459 | 1612 |
| | 6 | 0422 | 0451 | 1617 |
| | 10 | 0414 | 0444 | 1623 |
| | 14 | 0407 | 0436 | 1628 |
| | 18 | 0359 | 0429 | 1633 |
| | 22 | 0351 | 0421 | 1639 |
| | 26 | 0343 | 0413 | 1644 |
| | 30 | 0336 | 0406 | 1649 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG | 2 | 0235 | 0309 | 1750 |
| | 6 | 0240 | 0313 | 1745 |
| | 10 | 0245 | 0318 | 1739 |
| | 14 | 0251 | 0323 | 1732 |
| | 18 | 0256 | 0328 | 1726 |
| | 22 | 0301 | 0333 | 1719 |
| | 26 | 0307 | 0338 | 1712 |
| | 30 | 0312 | 0343 | 1704 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC | 4 | 0514 | 0548 | 1439 |
| | 8 | 0518 | 0552 | 1439 |
| | 12 | 0521 | 0556 | 1439 |
| | 16 | 0524 | 0559 | 1440 |
| | 20 | 0527 | 0601 | 1441 |
| | 24 | 0528 | 0603 | 1444 |
| | 28 | 0530 | 0604 | 1446 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR | 3 | 0328 | 0358 | 1655 |
| | 7 | 0320 | 0350 | 1700 |
| | 11 | 0312 | 0343 | 1705 |
| | 15 | 0305 | 0336 | 1710 |
| | 19 | 0257 | 0329 | 1715 |
| | 23 | 0250 | 0322 | 1721 |
| | 27 | 0243 | 0316 | 1726 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP | 3 | 0317 | 0348 | 1657 |
| | 7 | 0322 | 0353 | 1649 |
| | 11 | 0328 | 0358 | 1641 |
| | 15 | 0333 | 0403 | 1634 |
| | 19 | 0338 | 0408 | 1626 |
| | 23 | 0343 | 0413 | 1618 |
| | 27 | 0348 | 0418 | 1610 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN | 1 | 0530 | 0604 | 1450 |
| | 5 | 0530 | 0604 | 1454 |
| | 9 | 0529 | 0603 | 1458 |
| | 13 | 0528 | 0601 | 1503 |
| | 17 | 0526 | 0559 | 1508 |
| | 21 | 0523 | 0555 | 1514 |
| | 25 | 0519 | 0552 | 1520 |
| | 29 | 0516 | 0547 | 1525 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY | 1 | 0236 | 0309 | 1731 |
| | 5 | 0230 | 0304 | 1736 |
| | 9 | 0224 | 0258 | 1741 |
| | 13 | 0218 | 0253 | 1746 |
| | 17 | 0213 | 0248 | 1751 |
| | 21 | 0209 | 0244 | 1755 |
| | 25 | 0205 | 0241 | 1759 |
| | 29 | 0201 | 0238 | 1803 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT | 1 | 0353 | 0423 | 1602 |
| | 5 | 0358 | 0428 | 1555 |
| | 9 | 0403 | 0433 | 1547 |
| | 13 | 0408 | 0438 | 1540 |
| | 17 | 0414 | 0444 | 1533 |
| | 21 | 0419 | 0449 | 1526 |
| | 25 | 0424 | 0455 | 1520 |
| | 29 | 0429 | 0500 | 1513 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB | 2 | 0511 | 0543 | 1531 |
| | 6 | 0506 | 0537 | 1537 |
| | 10 | 0501 | 0532 | 1543 |
| | 14 | 0455 | 0526 | 1549 |
| | 18 | 0449 | 0519 | 1555 |
| | 22 | 0443 | 0513 | 1600 |
| | 26 | 0436 | 0506 | 1606 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN | 2 | 0158 | 0236 | 1807 |
| | 6 | 0156 | 0234 | 1810 |
| | 10 | 0155 | 0233 | 1813 |
| | 14 | 0154 | 0233 | 1815 |
| | 18 | 0155 | 0233 | 1816 |
| | 22 | 0155 | 0234 | 1817 |
| | 26 | 0157 | 0235 | 1817 |
| | 30 | 0159 | 0237 | 1817 |



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

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0140 | 0221 | 1816 | 1856 |
| 5 | 0144 | 0223 | 1814 | 1854 |
| 9 | 0147 | 0227 | 1812 | 1852 |
| 13 | 0152 | 0231 | 1809 | 1848 |
| 17 | 0156 | 0235 | 1806 | 1844 |
| 21 | 0201 | 0239 | 1802 | 1840 |
| 25 | 0207 | 0244 | 1757 | 1834 |
| 29 | 0212 | 0249 | 1752 | 1829 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0429 | 0501 | 1454 | 1526 |
| 6 | 0435 | 0507 | 1448 | 1521 |
| 10 | 0440 | 0513 | 1443 | 1516 |
| 14 | 0446 | 0519 | 1438 | 1512 |
| 18 | 0451 | 0525 | 1434 | 1508 |
| 22 | 0457 | 0531 | 1430 | 1504 |
| 26 | 0502 | 0536 | 1427 | 1502 |
| 30 | 0506 | 0541 | 1425 | 1500 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0421 | 0451 | 1601 | 1632 |
| 6 | 0413 | 0444 | 1607 | 1638 |
| 10 | 0405 | 0436 | 1613 | 1643 |
| 14 | 0357 | 0428 | 1619 | 1649 |
| 18 | 0349 | 0419 | 1624 | 1655 |
| 22 | 0341 | 0411 | 1630 | 1701 |
| 26 | 0332 | 0403 | 1636 | 1707 |
| 30 | 0324 | 0355 | 1642 | 1713 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG 2 | 0218 | 0254 | 1747 | 1822 |
| 6 | 0224 | 0259 | 1741 | 1816 |
| 10 | 0230 | 0304 | 1734 | 1809 |
| 14 | 0236 | 0310 | 1728 | 1801 |
| 18 | 0242 | 0315 | 1721 | 1754 |
| 22 | 0248 | 0320 | 1713 | 1746 |
| 26 | 0253 | 0326 | 1706 | 1738 |
| 30 | 0259 | 0331 | 1658 | 1730 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC 4 | 0511 | 0546 | 1423 | 1459 |
| 8 | 0515 | 0550 | 1422 | 1458 |
| 12 | 0518 | 0554 | 1422 | 1458 |
| 16 | 0521 | 0557 | 1423 | 1459 |
| 20 | 0524 | 0600 | 1425 | 1501 |
| 24 | 0525 | 0601 | 1427 | 1503 |
| 28 | 0526 | 0602 | 1430 | 1506 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR 3 | 0316 | 0347 | 1647 | 1719 |
| 7 | 0307 | 0339 | 1653 | 1725 |
| 11 | 0259 | 0331 | 1659 | 1731 |
| 15 | 0251 | 0324 | 1704 | 1737 |
| 19 | 0243 | 0316 | 1710 | 1743 |
| 23 | 0236 | 0309 | 1716 | 1749 |
| 27 | 0228 | 0302 | 1721 | 1755 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP 3 | 0305 | 0336 | 1650 | 1721 |
| 7 | 0310 | 0342 | 1642 | 1713 |
| 11 | 0316 | 0347 | 1634 | 1705 |
| 15 | 0322 | 0353 | 1625 | 1656 |
| 19 | 0327 | 0358 | 1617 | 1648 |
| 23 | 0333 | 0403 | 1609 | 1640 |
| 27 | 0338 | 0409 | 1601 | 1631 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN 1 | 0527 | 0602 | 1433 | 1509 |
| 5 | 0526 | 0602 | 1438 | 1513 |
| 9 | 0525 | 0601 | 1442 | 1517 |
| 13 | 0524 | 0559 | 1447 | 1522 |
| 17 | 0521 | 0556 | 1453 | 1527 |
| 21 | 0518 | 0552 | 1459 | 1533 |
| 25 | 0515 | 0548 | 1505 | 1538 |
| 29 | 0510 | 0544 | 1511 | 1544 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY 1 | 0221 | 0255 | 1727 | 1801 |
| 5 | 0214 | 0249 | 1732 | 1807 |
| 9 | 0208 | 0243 | 1738 | 1814 |
| 13 | 0201 | 0238 | 1743 | 1819 |
| 17 | 0156 | 0233 | 1748 | 1825 |
| 21 | 0151 | 0229 | 1753 | 1831 |
| 25 | 0146 | 0225 | 1757 | 1836 |
| 29 | 0143 | 0222 | 1802 | 1841 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT 1 | 0344 | 0414 | 1553 | 1623 |
| 5 | 0349 | 0420 | 1544 | 1615 |
| 9 | 0355 | 0426 | 1537 | 1607 |
| 13 | 0400 | 0431 | 1529 | 1600 |
| 17 | 0406 | 0437 | 1521 | 1552 |
| 21 | 0412 | 0443 | 1514 | 1545 |
| 25 | 0417 | 0449 | 1507 | 1539 |
| 29 | 0423 | 0455 | 1500 | 1532 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB 2 | 0506 | 0538 | 1517 | 1550 |
| 6 | 0500 | 0533 | 1524 | 1556 |
| 10 | 0455 | 0527 | 1530 | 1602 |
| 14 | 0449 | 0520 | 1536 | 1608 |
| 18 | 0442 | 0513 | 1542 | 1614 |
| 22 | 0435 | 0506 | 1549 | 1620 |
| 26 | 0428 | 0459 | 1555 | 1626 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN 2 | 0139 | 0219 | 1805 | 1845 |
| 6 | 0137 | 0217 | 1809 | 1849 |
| 10 | 0135 | 0216 | 1812 | 1852 |
| 14 | 0135 | 0215 | 1814 | 1854 |
| 18 | 0135 | 0215 | 1815 | 1856 |
| 22 | 0136 | 0216 | 1816 | 1857 |
| 26 | 0137 | 0218 | 1816 | 1857 |
| 30 | 0139 | 0220 | 1816 | 1856 |

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

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUL 1 | 0155 | 0234 | 1818 | 1857 |
| 5 | 0158 | 0236 | 1817 | 1855 |
| 9 | 0202 | 0240 | 1815 | 1853 |
| 13 | 0206 | 0243 | 1812 | 1850 |
| 17 | 0210 | 0247 | 1809 | 1846 |
| 21 | 0215 | 0251 | 1805 | 1842 |
| 25 | 0220 | 0256 | 1801 | 1837 |
| 29 | 0225 | 0300 | 1756 | 1831 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| NOV 2 | 0435 | 0506 | 1505 | 1536 |
| 6 | 0440 | 0512 | 1459 | 1531 |
| 10 | 0445 | 0518 | 1454 | 1526 |
| 14 | 0451 | 0523 | 1449 | 1522 |
| 18 | 0456 | 0529 | 1445 | 1518 |
| 22 | 0501 | 0535 | 1442 | 1515 |
| 26 | 0506 | 0540 | 1439 | 1513 |
| 30 | 0511 | 0545 | 1437 | 1511 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAR 2 | 0428 | 0458 | 1610 | 1640 |
| 6 | 0420 | 0450 | 1615 | 1645 |
| 10 | 0413 | 0443 | 1621 | 1651 |
| 14 | 0405 | 0435 | 1627 | 1657 |
| 18 | 0357 | 0427 | 1632 | 1702 |
| 22 | 0349 | 0419 | 1638 | 1708 |
| 26 | 0341 | 0412 | 1643 | 1713 |
| 30 | 0333 | 0404 | 1648 | 1719 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| AUG 2 | 0231 | 0305 | 1751 | 1825 |
| 6 | 0236 | 0310 | 1745 | 1819 |
| 10 | 0242 | 0315 | 1739 | 1812 |
| 14 | 0247 | 0320 | 1732 | 1805 |
| 18 | 0253 | 0325 | 1726 | 1758 |
| 22 | 0258 | 0330 | 1719 | 1751 |
| 26 | 0304 | 0336 | 1711 | 1743 |
| 30 | 0309 | 0341 | 1704 | 1735 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| DEC 4 | 0515 | 0549 | 1436 | 1510 |
| 8 | 0519 | 0553 | 1435 | 1509 |
| 12 | 0522 | 0557 | 1435 | 1510 |
| 16 | 0525 | 0600 | 1436 | 1511 |
| 20 | 0528 | 0602 | 1437 | 1512 |
| 24 | 0529 | 0604 | 1440 | 1514 |
| 28 | 0530 | 0605 | 1442 | 1517 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| APR 3 | 0325 | 0356 | 1654 | 1724 |
| 7 | 0317 | 0348 | 1659 | 1730 |
| 11 | 0310 | 0341 | 1705 | 1736 |
| 15 | 0302 | 0333 | 1710 | 1742 |
| 19 | 0254 | 0326 | 1715 | 1747 |
| 23 | 0247 | 0319 | 1721 | 1753 |
| 27 | 0240 | 0313 | 1726 | 1759 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| SEP 3 | 0315 | 0346 | 1656 | 1727 |
| 7 | 0320 | 0351 | 1648 | 1719 |
| 11 | 0325 | 0356 | 1640 | 1711 |
| 15 | 0331 | 0401 | 1633 | 1703 |
| 19 | 0336 | 0406 | 1625 | 1655 |
| 23 | 0341 | 0411 | 1617 | 1647 |
| 27 | 0346 | 0416 | 1609 | 1639 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JAN 1 | 0531 | 0605 | 1446 | 1521 |
| 5 | 0531 | 0605 | 1450 | 1524 |
| 9 | 0530 | 0604 | 1455 | 1529 |
| 13 | 0528 | 0602 | 1500 | 1533 |
| 17 | 0526 | 0559 | 1505 | 1538 |
| 21 | 0523 | 0556 | 1510 | 1544 |
| 25 | 0520 | 0552 | 1516 | 1549 |
| 29 | 0516 | 0548 | 1522 | 1554 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| MAY 1 | 0233 | 0306 | 1731 | 1805 |
| 5 | 0226 | 0300 | 1737 | 1811 |
| 9 | 0220 | 0255 | 1742 | 1816 |
| 13 | 0214 | 0250 | 1747 | 1822 |
| 17 | 0209 | 0245 | 1752 | 1827 |
| 21 | 0204 | 0241 | 1756 | 1833 |
| 25 | 0200 | 0237 | 1801 | 1838 |
| 29 | 0157 | 0234 | 1805 | 1842 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| OCT 1 | 0352 | 0422 | 1601 | 1631 |
| 5 | 0357 | 0427 | 1553 | 1623 |
| 9 | 0402 | 0432 | 1545 | 1616 |
| 13 | 0408 | 0438 | 1538 | 1608 |
| 17 | 0413 | 0443 | 1531 | 1601 |
| 21 | 0418 | 0449 | 1524 | 1554 |
| 25 | 0424 | 0455 | 1517 | 1548 |
| 29 | 0429 | 0500 | 1511 | 1542 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| FEB 2 | 0511 | 0543 | 1528 | 1600 |
| 6 | 0506 | 0538 | 1534 | 1606 |
| 10 | 0501 | 0532 | 1540 | 1611 |
| 14 | 0455 | 0526 | 1546 | 1617 |
| 18 | 0448 | 0519 | 1552 | 1623 |
| 22 | 0442 | 0512 | 1558 | 1629 |
| 26 | 0435 | 0505 | 1604 | 1634 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO |
|---------------|--------------|------|------|------------|
| JUN 2 | 0154 | 0232 | 1808 | 1846 |
| 6 | 0152 | 0230 | 1811 | 1850 |
| 10 | 0150 | 0229 | 1814 | 1853 |
| 14 | 0149 | 0228 | 1816 | 1855 |
| 18 | 0149 | 0229 | 1818 | 1857 |
| 22 | 0150 | 0229 | 1819 | 1858 |
| 26 | 0152 | 0231 | 1819 | 1858 |
| 30 | 0154 | 0233 | 1818 | 1857 |



TIMISOARA / Traian Vuia - LRTR
454835N 0212016E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| JUL | 1 | 0211 | 0249 | 1828 | 1906 |
| | 5 | 0214 | 0251 | 1827 | 1904 |
| | 9 | 0217 | 0254 | 1825 | 1902 |
| | 13 | 0221 | 0258 | 1822 | 1859 |
| | 17 | 0225 | 0302 | 1819 | 1855 |
| | 21 | 0230 | 0306 | 1815 | 1851 |
| | 25 | 0235 | 0310 | 1811 | 1846 |
| | 29 | 0240 | 0315 | 1806 | 1841 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| NOV | 2 | 0446 | 0517 | 1518 | 1550 |
| | 6 | 0451 | 0523 | 1513 | 1544 |
| | 10 | 0456 | 0528 | 1508 | 1540 |
| | 14 | 0502 | 0534 | 1504 | 1536 |
| | 18 | 0507 | 0539 | 1500 | 1532 |
| | 22 | 0512 | 0545 | 1456 | 1529 |
| | 26 | 0517 | 0550 | 1454 | 1527 |
| | 30 | 0521 | 0555 | 1452 | 1525 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| MAR | 2 | 0440 | 0510 | 1623 | 1652 |
| | 6 | 0433 | 0502 | 1628 | 1658 |
| | 10 | 0425 | 0455 | 1634 | 1703 |
| | 14 | 0418 | 0447 | 1639 | 1709 |
| | 18 | 0410 | 0440 | 1644 | 1714 |
| | 22 | 0402 | 0432 | 1650 | 1719 |
| | 26 | 0354 | 0424 | 1655 | 1725 |
| | 30 | 0347 | 0416 | 1700 | 1730 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| AUG | 2 | 0245 | 0319 | 1801 | 1835 |
| | 6 | 0251 | 0324 | 1756 | 1829 |
| | 10 | 0256 | 0329 | 1750 | 1823 |
| | 14 | 0302 | 0334 | 1743 | 1816 |
| | 18 | 0307 | 0339 | 1737 | 1809 |
| | 22 | 0312 | 0344 | 1730 | 1801 |
| | 26 | 0318 | 0349 | 1723 | 1754 |
| | 30 | 0323 | 0354 | 1715 | 1746 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| DEC | 4 | 0525 | 0559 | 1450 | 1524 |
| | 8 | 0529 | 0603 | 1450 | 1524 |
| | 12 | 0533 | 0607 | 1450 | 1524 |
| | 16 | 0535 | 0610 | 1451 | 1525 |
| | 20 | 0538 | 0612 | 1452 | 1527 |
| | 24 | 0540 | 0614 | 1454 | 1529 |
| | 28 | 0541 | 0615 | 1457 | 1532 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| APR | 3 | 0339 | 0409 | 1706 | 1736 |
| | 7 | 0331 | 0401 | 1711 | 1741 |
| | 11 | 0323 | 0354 | 1716 | 1747 |
| | 15 | 0316 | 0347 | 1721 | 1752 |
| | 19 | 0308 | 0340 | 1727 | 1758 |
| | 23 | 0301 | 0333 | 1732 | 1804 |
| | 27 | 0254 | 0326 | 1737 | 1809 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| SEP | 3 | 0328 | 0359 | 1708 | 1738 |
| | 7 | 0333 | 0404 | 1700 | 1730 |
| | 11 | 0339 | 0409 | 1652 | 1722 |
| | 15 | 0344 | 0414 | 1645 | 1714 |
| | 19 | 0349 | 0419 | 1637 | 1706 |
| | 23 | 0354 | 0424 | 1629 | 1659 |
| | 27 | 0359 | 0429 | 1621 | 1651 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| JAN | 1 | 0541 | 0615 | 1501 | 1535 |
| | 5 | 0541 | 0615 | 1505 | 1539 |
| | 9 | 0540 | 0614 | 1509 | 1543 |
| | 13 | 0539 | 0612 | 1514 | 1547 |
| | 17 | 0537 | 0610 | 1519 | 1552 |
| | 21 | 0534 | 0606 | 1525 | 1557 |
| | 25 | 0531 | 0603 | 1530 | 1603 |
| | 29 | 0527 | 0559 | 1536 | 1608 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| MAY | 1 | 0247 | 0320 | 1742 | 1815 |
| | 5 | 0241 | 0314 | 1747 | 1821 |
| | 9 | 0235 | 0309 | 1752 | 1826 |
| | 13 | 0229 | 0304 | 1757 | 1832 |
| | 17 | 0224 | 0259 | 1802 | 1837 |
| | 21 | 0220 | 0255 | 1806 | 1842 |
| | 25 | 0216 | 0252 | 1810 | 1847 |
| | 29 | 0212 | 0249 | 1814 | 1851 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| OCT | 1 | 0404 | 0434 | 1613 | 1643 |
| | 5 | 0409 | 0439 | 1606 | 1635 |
| | 9 | 0414 | 0444 | 1558 | 1628 |
| | 13 | 0419 | 0449 | 1551 | 1621 |
| | 17 | 0425 | 0455 | 1544 | 1614 |
| | 21 | 0430 | 0500 | 1537 | 1607 |
| | 25 | 0435 | 0506 | 1531 | 1601 |
| | 29 | 0441 | 0511 | 1524 | 1555 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| FEB | 2 | 0522 | 0554 | 1542 | 1614 |
| | 6 | 0517 | 0548 | 1548 | 1619 |
| | 10 | 0512 | 0543 | 1554 | 1625 |
| | 14 | 0506 | 0537 | 1600 | 1630 |
| | 18 | 0500 | 0530 | 1606 | 1636 |
| | 22 | 0454 | 0524 | 1611 | 1641 |
| | 26 | 0447 | 0517 | 1617 | 1647 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| JUN | 2 | 0209 | 0247 | 1818 | 1855 |
| | 6 | 0207 | 0245 | 1821 | 1859 |
| | 10 | 0206 | 0244 | 1824 | 1902 |
| | 14 | 0205 | 0243 | 1826 | 1904 |
| | 18 | 0205 | 0244 | 1827 | 1906 |
| | 22 | 0206 | 0244 | 1828 | 1906 |
| | 26 | 0208 | 0246 | 1828 | 1907 |
| | 30 | 0210 | 0248 | 1828 | 1906 |

TULCEA / Delta Dunarii - LRTC
450346N 0284252E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| JUL | 1 | 0145 | 0222 | 1755 | 1832 |
| | 5 | 0148 | 0225 | 1754 | 1831 |
| | 9 | 0151 | 0228 | 1752 | 1829 |
| | 13 | 0155 | 0231 | 1750 | 1826 |
| | 17 | 0159 | 0235 | 1747 | 1822 |
| | 21 | 0204 | 0239 | 1743 | 1818 |
| | 25 | 0209 | 0243 | 1739 | 1814 |
| | 29 | 0214 | 0247 | 1735 | 1809 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| NOV | 2 | 0415 | 0446 | 1451 | 1521 |
| | 6 | 0420 | 0451 | 1445 | 1516 |
| | 10 | 0425 | 0457 | 1440 | 1512 |
| | 14 | 0431 | 0502 | 1436 | 1508 |
| | 18 | 0436 | 0508 | 1432 | 1504 |
| | 22 | 0440 | 0513 | 1429 | 1502 |
| | 26 | 0445 | 0518 | 1427 | 1459 |
| | 30 | 0450 | 0523 | 1425 | 1458 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| MAR | 2 | 0410 | 0439 | 1554 | 1623 |
| | 6 | 0403 | 0432 | 1559 | 1628 |
| | 10 | 0356 | 0425 | 1605 | 1634 |
| | 14 | 0348 | 0418 | 1610 | 1639 |
| | 18 | 0341 | 0410 | 1615 | 1644 |
| | 22 | 0333 | 0403 | 1620 | 1649 |
| | 26 | 0326 | 0355 | 1625 | 1655 |
| | 30 | 0318 | 0348 | 1630 | 1700 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| AUG | 2 | 0219 | 0252 | 1730 | 1803 |
| | 6 | 0224 | 0257 | 1724 | 1757 |
| | 10 | 0229 | 0301 | 1718 | 1751 |
| | 14 | 0234 | 0306 | 1712 | 1744 |
| | 18 | 0239 | 0311 | 1706 | 1737 |
| | 22 | 0245 | 0316 | 1659 | 1730 |
| | 26 | 0250 | 0320 | 1652 | 1723 |
| | 30 | 0255 | 0325 | 1645 | 1715 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| DEC | 4 | 0454 | 0527 | 1423 | 1457 |
| | 8 | 0458 | 0531 | 1423 | 1456 |
| | 12 | 0501 | 0534 | 1423 | 1457 |
| | 16 | 0504 | 0537 | 1424 | 1458 |
| | 20 | 0506 | 0540 | 1425 | 1459 |
| | 24 | 0508 | 0542 | 1428 | 1501 |
| | 28 | 0509 | 0543 | 1431 | 1504 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| APR | 3 | 0310 | 0340 | 1635 | 1705 |
| | 7 | 0303 | 0333 | 1640 | 1710 |
| | 11 | 0255 | 0326 | 1646 | 1716 |
| | 15 | 0248 | 0318 | 1651 | 1721 |
| | 19 | 0241 | 0312 | 1656 | 1727 |
| | 23 | 0234 | 0305 | 1701 | 1732 |
| | 27 | 0227 | 0259 | 1706 | 1738 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| SEP | 3 | 0300 | 0330 | 1637 | 1707 |
| | 7 | 0305 | 0335 | 1630 | 1700 |
| | 11 | 0310 | 0340 | 1622 | 1652 |
| | 15 | 0315 | 0344 | 1615 | 1644 |
| | 19 | 0320 | 0349 | 1607 | 1636 |
| | 23 | 0325 | 0354 | 1559 | 1629 |
| | 27 | 0330 | 0359 | 1552 | 1621 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| JAN | 1 | 0510 | 0543 | 1434 | 1507 |
| | 5 | 0509 | 0543 | 1438 | 1511 |
| | 9 | 0509 | 0542 | 1442 | 1515 |
| | 13 | 0507 | 0540 | 1447 | 1520 |
| | 17 | 0505 | 0538 | 1452 | 1525 |
| | 21 | 0503 | 0535 | 1458 | 1530 |
| | 25 | 0459 | 0531 | 1503 | 1535 |
| | 29 | 0456 | 0527 | 1509 | 1540 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| MAY | 1 | 0220 | 0253 | 1711 | 1743 |
| | 5 | 0214 | 0247 | 1716 | 1749 |
| | 9 | 0208 | 0242 | 1721 | 1754 |
| | 13 | 0203 | 0237 | 1725 | 1759 |
| | 17 | 0158 | 0232 | 1730 | 1804 |
| | 21 | 0153 | 0228 | 1734 | 1809 |
| | 25 | 0149 | 0225 | 1738 | 1814 |
| | 29 | 0146 | 0222 | 1742 | 1818 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| OCT | 1 | 0335 | 0404 | 1544 | 1613 |
| | 5 | 0340 | 0409 | 1537 | 1606 |
| | 9 | 0344 | 0414 | 1530 | 1559 |
| | 13 | 0349 | 0419 | 1522 | 1552 |
| | 17 | 0355 | 0424 | 1515 | 1545 |
| | 21 | 0400 | 0429 | 1509 | 1539 |
| | 25 | 0405 | 0435 | 1502 | 1532 |
| | 29 | 0410 | 0440 | 1456 | 1527 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| FEB | 2 | 0451 | 0522 | 1514 | 1545 |
| | 6 | 0447 | 0517 | 1520 | 1551 |
| | 10 | 0441 | 0512 | 1526 | 1556 |
| | 14 | 0436 | 0506 | 1532 | 1602 |
| | 18 | 0430 | 0500 | 1537 | 1607 |
| | 22 | 0424 | 0453 | 1543 | 1613 |
| | 26 | 0417 | 0446 | 1548 | 1618 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| JUN | 2 | 0143 | 0220 | 1746 | 1822 |
| | 6 | 0141 | 0218 | 1749 | 1825 |
| | 10 | 0140 | 0217 | 1751 | 1828 |
| | 14 | 0140 | 0217 | 1753 | 1830 |
| | 18 | 0140 | 0217 | 1755 | 1832 |
| | 22 | 0141 | 0218 | 1756 | 1833 |
| | 26 | 0142 | 0219 | 1756 | 183 |



TUZLA / Tuzla - LRTZ
435903N 0283635E

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| JUL | 1 | 0151 | 0227 | 1752 | 1828 |
| | 5 | 0153 | 0229 | 1751 | 1826 |
| | 9 | 0157 | 0232 | 1749 | 1824 |
| | 13 | 0200 | 0235 | 1747 | 1822 |
| | 17 | 0204 | 0239 | 1744 | 1818 |
| | 21 | 0209 | 0243 | 1740 | 1814 |
| | 25 | 0213 | 0247 | 1736 | 1810 |
| | 29 | 0218 | 0251 | 1732 | 1805 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| NOV | 2 | 0414 | 0444 | 1453 | 1523 |
| | 6 | 0419 | 0449 | 1448 | 1519 |
| | 10 | 0424 | 0455 | 1444 | 1514 |
| | 14 | 0429 | 0500 | 1439 | 1510 |
| | 18 | 0434 | 0505 | 1436 | 1507 |
| | 22 | 0438 | 0510 | 1433 | 1504 |
| | 26 | 0443 | 0515 | 1430 | 1502 |
| | 30 | 0447 | 0519 | 1429 | 1501 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| MAR | 2 | 0410 | 0439 | 1555 | 1624 |
| | 6 | 0403 | 0432 | 1600 | 1629 |
| | 10 | 0356 | 0425 | 1605 | 1634 |
| | 14 | 0349 | 0418 | 1610 | 1639 |
| | 18 | 0342 | 0410 | 1615 | 1644 |
| | 22 | 0334 | 0403 | 1620 | 1649 |
| | 26 | 0327 | 0356 | 1625 | 1654 |
| | 30 | 0320 | 0349 | 1630 | 1659 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| AUG | 2 | 0223 | 0255 | 1727 | 1800 |
| | 6 | 0228 | 0300 | 1722 | 1754 |
| | 10 | 0233 | 0304 | 1716 | 1748 |
| | 14 | 0238 | 0309 | 1710 | 1741 |
| | 18 | 0243 | 0313 | 1704 | 1735 |
| | 22 | 0248 | 0318 | 1657 | 1728 |
| | 26 | 0252 | 0323 | 1651 | 1721 |
| | 30 | 0257 | 0327 | 1644 | 1713 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| DEC | 4 | 0451 | 0524 | 1428 | 1500 |
| | 8 | 0455 | 0528 | 1427 | 1500 |
| | 12 | 0458 | 0531 | 1427 | 1500 |
| | 16 | 0501 | 0534 | 1428 | 1501 |
| | 20 | 0503 | 0536 | 1430 | 1503 |
| | 24 | 0505 | 0538 | 1432 | 1505 |
| | 28 | 0506 | 0539 | 1435 | 1508 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| APR | 3 | 0312 | 0341 | 1635 | 1704 |
| | 7 | 0305 | 0334 | 1640 | 1709 |
| | 11 | 0258 | 0327 | 1645 | 1714 |
| | 15 | 0250 | 0321 | 1649 | 1719 |
| | 19 | 0243 | 0314 | 1654 | 1725 |
| | 23 | 0237 | 0308 | 1659 | 1730 |
| | 27 | 0230 | 0301 | 1704 | 1735 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| SEP | 3 | 0302 | 0332 | 1637 | 1706 |
| | 7 | 0307 | 0336 | 1629 | 1659 |
| | 11 | 0312 | 0341 | 1622 | 1651 |
| | 15 | 0316 | 0345 | 1615 | 1644 |
| | 19 | 0321 | 0350 | 1607 | 1636 |
| | 23 | 0326 | 0354 | 1600 | 1629 |
| | 27 | 0330 | 0359 | 1552 | 1621 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| JAN | 1 | 0507 | 0540 | 1438 | 1511 |
| | 5 | 0507 | 0539 | 1442 | 1515 |
| | 9 | 0506 | 0539 | 1446 | 1519 |
| | 13 | 0505 | 0537 | 1451 | 1523 |
| | 17 | 0503 | 0535 | 1456 | 1528 |
| | 21 | 0501 | 0532 | 1501 | 1532 |
| | 25 | 0458 | 0529 | 1506 | 1537 |
| | 29 | 0454 | 0525 | 1512 | 1543 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| MAY | 1 | 0224 | 0256 | 1709 | 1740 |
| | 5 | 0218 | 0250 | 1713 | 1746 |
| | 9 | 0212 | 0245 | 1718 | 1751 |
| | 13 | 0207 | 0240 | 1723 | 1756 |
| | 17 | 0202 | 0236 | 1727 | 1801 |
| | 21 | 0158 | 0232 | 1731 | 1805 |
| | 25 | 0155 | 0229 | 1735 | 1810 |
| | 29 | 0151 | 0226 | 1739 | 1814 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| OCT | 1 | 0335 | 0404 | 1545 | 1614 |
| | 5 | 0340 | 0409 | 1538 | 1607 |
| | 9 | 0345 | 0413 | 1531 | 1600 |
| | 13 | 0349 | 0418 | 1524 | 1553 |
| | 17 | 0354 | 0423 | 1517 | 1546 |
| | 21 | 0359 | 0428 | 1511 | 1540 |
| | 25 | 0404 | 0433 | 1505 | 1534 |
| | 29 | 0409 | 0439 | 1459 | 1529 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| FEB | 2 | 0450 | 0520 | 1517 | 1548 |
| | 6 | 0445 | 0515 | 1523 | 1553 |
| | 10 | 0440 | 0510 | 1528 | 1558 |
| | 14 | 0435 | 0505 | 1534 | 1603 |
| | 18 | 0429 | 0459 | 1539 | 1609 |
| | 22 | 0423 | 0452 | 1545 | 1614 |
| | 26 | 0417 | 0446 | 1550 | 1619 |

| MONTH/ DAY | TWIL FROM | SR | SS | TWIL TO | |
|---------------|--------------|------|------|------------|------|
| JUN | 2 | 0149 | 0224 | 1742 | 1817 |
| | 6 | 0147 | 0223 | 1745 | 1821 |
| | 10 | 0146 | 0222 | 1747 | 1823 |
| | 14 | 0145 | 0222 | 1749 | 1826 |
| | 18 | 0146 | 0222 | 1751 | 1827 |
| | 22 | 0146 | 0223 | 1752 | 1828 |
| | 26 | 0148 | 0224 | 1752 | 1828 |
| | 30 | 0150 | 0226 | 1752 | 1828 |

5. List of aeronautical charts available

Lista hărților aeronautice produse

Those charts series marked by an asterisk form part of the AIP.

| Title of series | Scale | Name and/or number | Price (EUR) |
|--|-----------|--|-------------|
| 1 | 2 | 3 | 4 |
| Instrument Approach Chart - ICAO* (IAC) | 1:500 000 | ARAD/Arad LRAR ILS 27 A/B LRAR ILS 27 C/D LRAR VOR 09 LRAR VOR 27 A/B LRAR VOR 27 C/D BACĂU/George Enescu LRBC ILS 34 LRBC NDB 34 LRBC NDB 16 BAIA MARE/Baia Mare LRBM ILS Y 10 A/B LRBM ILS Z 10 A/B LRBM ILS Y 10 C LRBM ILS Z 10 C LRBM NDB 10 A/B LRBM NDB 10 C BUCUREȘTI/Băneasa-Aurel Vlaicu LRBS ILS 07 A/B LRBS ILS 07 C/D LRBS ILS 25 A/B LRBS ILS 25 C/D LRBS NDB 07 A/B LRBS NDB 07 C/D LRBS NDB 25 A/B LRBS NDB 25 C/D BUCUREȘTI/Henri Coandă LROP ILS 08R LROP ILS 08L LROP ILS 26R LROP ILS 26L LROP NDB 08R LROP NDB 08L LROP NDB 26R LROP NDB 26L CLUJ-NAPOCA/Avram Iancu LRCL ILS 25 CONSTANȚA/Mihail Kogălniceanu - Constanța LRCK ILS 36 LRCK VOR 18 LRCK VOR 36 CRAIOVA/Craiova LRCV ILS 27 A/B LRCV ILS 27 C/D LRCV VOR 09 LRCV VOR 27 A/B LRCV VOR 27 C/D IAȘI/Iași LRIA ILS 14 A/B LRIA ILS 14 C/D LRIA NDB 14 A/B LRIA NDB 14 C/D LRIA NDB 32 A/B LRIA NDB 32 C/D ORADEA/Oradea LROD ILS 19 A/B LROD ILS 19 C/D LROD NDB 19 A/B LROD NDB 19 C/D SATU-MARE/Satu-Mare LRSM ILS 19 LRSM VOR 01 LRSM VOR 19 SIBIU/Sibiu LRSB ILS 27 LRSB NDB 27 | |

| 1 | 2 | 3 | 4 |
|--|--|--|---|
| Instrument Approach Chart - ICAO* (IAC) | 1:500 000 | SUCEAVA/Ștefan Cel Mare-Suceava LRSV ILS 34 LRSV VOR 16 LRSV VOR 34 LRSV RNAV (GNSS) 16 LRSV RNAV (GNSS) 34 TÂRGU MUREȘ/Transilvania-Târgu Mureș LRTM ILS 07 A/B LRTM ILS 07 C/D LRTM NDB 07 A/B LRTM NDB 07 C/D TIMIȘOARA/Tarian Vuia LRTM ILS 11 LRTR ILS 29 LRTR NDB 29 LRTR NDB 11 TULCEA/Delta Dunării LRTC ILS 34 LRTC VOR 34 | |
| Aerodrome Chart - ICAO* (AC) | 1:15.000 1:20.000 1:15.000 1:5.000 1:25.000 1:25.000 1:15.000 1:20.000 1:25.000 1:20.000 1:20.000 1:5.000 1:5.000 1:25.000 1:5.000 1:18.000 1:20.000 1:15.000 1:25.000 1:20.000 1:7.000 1:3.000 | ARAD/Arad BACĂU/George Enescu BAIA MARE/Baia Mare BRAȘOV/Sânpetru BUCUREȘTI/Băneasa-Aurel Vlaicu BUCUREȘTI/Henri Coandă CLUJ NAPOCA/Avram Iancu CONSTANȚA/Mihail Kogălniceanu-Constanța CRAIOVA/Craiova IAȘI/Iași ORADEA/Oradea PITEȘTI/Geamăna PLOIEȘTI/Gheorghe Valentin Bibescu-Ploiești SATU-MARE/Satu-Mare SIBIU/Măgura-Sibiu SIBIU/Sibiu SUCEAVA/Ștefan cel Mare-Suceava TÂRGU MUREȘ/Transilvania-Târgu Mureș TIMIȘOARA/Traian Vuia TULCEA/Delta Dunării TUZLA/Tuzla VATRA DORNEI/Floreni | |
| Heliport Chart - ICAO* (HC) | 1:2.000 1:2.500 1:1.000 1:1.000 1:1.000 1:500 | BRAȘOV/Cobrex GHIMBAV/IAR Brașov NĂVODARI/Midia-Constanța PLOIEȘTI/Aero-Taxi TUZLA/Tuzla BUCUREȘTI/Crystal Tower | |
| Aircraft Parking/Docking Chart - ICAO* | | ARAD/Arad - APRON 1/APRON 2 BACĂU/George Enescu BAIA MARE/Baia Mare BUCUREȘTI/Băneasa-Aurel Vlaicu BUCUREȘTI/Henri Coandă - APRON 1 BUCUREȘTI/Henri Coandă - APRON 2 BUCUREȘTI/Henri Coandă - APRON 3 CLUJ NAPOCA/Avram Iancu - APRON 1 CLUJ NAPOCA/Avram Iancu - APRON 4 CONSTANȚA/Mihail Kogălniceanu-Constanța CRAIOVA/Craiova SATU MARE/Satu Mare SIBIU/Sibiu SUCEAVA/Ștefan cel Mare-Suceava TÂRGU MUREȘ/Transilvania-Târgu Mureș - APRON 1 TÂRGU MUREȘ/Transilvania-Târgu Mureș - APRON 2 TIMIȘOARA/Traian Vuia-APRON TIMIȘOARA/Traian Vuia-APRON WEST TULCEA/Delta Dunării | |

| 1 | 2 | 3 | 4 |
|--|--|--|------------------------|
| Aerodrome Obstacle Chart - ICAO* TYPE A (AOC) | 1:15.000 | ARAD/Arad | AOC - A 27 |
| | 1:15.000 | ARAD/Arad | AOC - A 09 |
| | 1:20.000 | BACĂU/George Enescu | AOC - A 16/34 |
| | 1:20.000 | BAIA MARE/Baia Mare | AOC - A 10/28 |
| | 1:15.000 | BUCUREȘTI/Băneasa-Aurel Vlaicu | AOC - A 07 |
| | 1:15.000 | BUCUREȘTI/Băneasa-Aurel Vlaicu | AOC - A 25 |
| | 1:19.000 | BUCUREȘTI/Henri Coandă | AOC - A 08R/26L |
| | 1:20.000 | BUCUREȘTI/Henri Coandă | AOC - A 08L/26R |
| | 1:20.000 | CLUJ NAPOCA/Avram Iancu | AOC - A 07 |
| | 1:20.000 | CLUJ NAPOCA/Avram Iancu | AOC - A 25 |
| | 1:20.000 | CONSTANȚA/Mihail Kogălniceanu-Constanța | AOC - A 36/18 |
| | 1:20.000 | CRAIOVA/Craiova | AOC - A 09/27 |
| | 1:20.000 | IAȘI/Iași | AOC - A 14/32 |
| | 1:20.000 | ORADEA/Oradea | AOC - A 01/19 |
| | 1:25.000 | SATU MARE/Satu Mare | AOC - A 01/19 |
| | 1:15.000 | SIBIU/Sibiu | AOC - A 09 |
| | 1:15.000 | SIBIU/Sibiu | AOC - A 27 |
| | 1:20.000 | SUCEAVA/Ștefan cel Mare-Suceava | AOC - A 16/34 |
| | 1:20.000 | TÂRGU MUREȘ/Transilvania - Târgu Mureș | AOC - A 07 |
| | 1:20.000 | TÂRGU MUREȘ/Transilvania - Târgu Mureș | AOC - A 25 |
| 1:20.000 | TIMIȘOARA/Traian Vuia | AOC - A 11/29 | |
| 1:20.000 | TULCEA/Delta Dunării | AOC - A 16/34 | |
| Aerodrome Ground Movement Chart - ICAO* | 1:25.000 | BUCUREȘTI/Henri Coandă | |
| Visual Approach Chart - ICAO* (VAC) | 1:15.000 | BRAȘOV/Sânpetru | |
| | 1:60.000 | BUCUREȘTI/Băneasa-Aurel Vlaicu | |
| | 1:200.000 | BUCUREȘTI/Henri Coandă | |
| | 1:25.000 | BUCUREȘTI/Crystal Tower | |
| | | GHIMBAV/IAR Brașov | |
| | 1:10.000 | MĂGURA/Sibiu | |
| | 1:40.000 | PITEȘTI/Geamăna | |
| | 1:50.000 | PITEȘTI/Geamăna | |
| | | TUZLA/Tuzla | |
| | 1:50.000 | LRTZ RWY 04/22 | |
| 1:50.000 | LRTZ RWY 17/35 | | |
| 1:25.000 | VATRA DORNEI/Floreni | | |
| Precision Approach Terrain Chart - ICAO* (PATC) | 1:2.500 | ARAD/Arad | |
| | | LRAR PATC RWY 27 | |
| | 1:2.500 | BUCUREȘTI/Băneasa-Aurel Vlaicu | |
| | | LRBS PATC RWY 07 | |
| | 1:2.500 | BUCUREȘTI/Henri Coandă | |
| | | LROP PATC RWY 08R | |
| | | LROP PATC RWY 08L | |
| | | CLUJ NAPOCA/Avram Iancu | |
| | | LRCL PATC RWY 25 | |
| | | IAȘI/Iași | |
| | LRIA PATC RWY 14 | | |
| | SUCEAVA/Ștefan cel Mare-Suceava | | |
| | LRSV PATC RWY 34 | | |
| | TIMIȘOARA/Traian Vuia | | |
| 1:2.500 | LRTR PATC RWY 11 | | |
| 1:2.500 | LRTR PATC RWY 29 | | |
| RNAV Departure Chart* | 1:500.000 | ARAD/Arad | |
| | 1:500.000 | LRAR RWY 09 | |
| | 1:500.000 | LRAR RWY 27 | |
| | | BUCUREȘTI/Băneasa-Aurel Vlaicu | |
| | 1:500.000 | LRBS RWY 07 | |
| | 1:500.000 | LRBS RWY 25 | |
| | | BUCUREȘTI/Henri Coandă | |
| | 1:500.000 | LROP RWY 08L/R | |
| | 1:500.000 | LROP RWY 26L/R | |
| | | CLUJ NAPOCA/Avram Iancu | |
| | 1:500.000 | LRCL RWY 07 | |
| | 1:500.000 | LRCL RWY 25 | |
| | | TIMIȘOARA/Traian Vuia | |
| 1:500.000 | LRTR RWY 11 | | |
| 1:500.000 | LRTR RWY 29 | | |

| 1 | 2 | 3 | 4 |
|---|-------------|--|----|
| RNAV Arrival Chart* | 1:500.000 | ARAD/Arad LRAR RWY 09 LRAR RWY 27 BUCUREȘTI/Băneasa-Aurel Vlaicu LRBS RWY 07 LRBS RWY 25 BUCUREȘTI/Henri Coandă LROP RWY 08L/R LROP RWY 26L/R CLUJ NAPOCA/Avram Iancu LRCL RWY 25 TIMIȘOARA/Traian Vuia LRTR RWY 11 LRTR RWY 29 | |
| Standard Departure Chart - Instrument - ICAO* (SID) | 1:500.000 | ARAD/Arad LRAR RWY 09 LRAR RWY 27 BUCUREȘTI/Băneasa-Aurel Vlaicu LRBS RWY 07 LRBS RWY 25 BUCUREȘTI/Henri Coandă LROP RWYs 08L/R LROP RWYs 26L/R CLUJ-NAPOCA/Avram Iancu LRCL RWY 07/25 CONSTANȚA/Mihail Kogălniceanu - Constanța LRCK RWY 18 CONSTANȚA/Mihail Kogălniceanu - Constanța LRCK RWY 36 IAȘI/Iași LRIA RWY 14 LRIA RWY 32 SUCEAVA/Ștefan Cel Mare-Suceava LRSV RWY 16 LRSV RWY 34 TIMIȘOARA/Traian Vuia-Timișoara LRTR RWY 11 LRTR RWY 29 | |
| Standard Arrival Chart - Instrument - ICAO* (STAR) | 1:500.000 | ARAD/Arad LRAR RWY 09 LRAR RWY 27 BACĂU/George Enescu LRBC RWY 34 LRBC RWY 16 BUCUREȘTI/Băneasa-Aurel Vlaicu LRBS RWY 07 LRBS RWY 25 BUCUREȘTI/Henri Coandă LROP RWYs 08L/R LROP RWYs 26L/R CLUJ-NAPOCA/Avram Iancu LRCL RWY 25 CONSTANȚA/Mihail Kogălniceanu - Constanța LRCK RWY 18 CONSTANȚA/Mihail Kogălniceanu - Constanța LRCK RWY 36 TIMIȘOARA/Traian Vuia - Timișoara LRTR RWY 11 LRTR RWY 29 | |
| ATC Surveillance Minimum Altitude Chart - ICAO* | | ARAD/Arad BUCUREȘTI/Băneasa-Aurel Vlaicu BUCUREȘTI/Henri Coandă CONSTANȚA/Mihail Kogălniceanu - Constanța TIMIȘOARA/Traian Vuia - Timișoara | |
| En-route Charts * / Area Charts * - ICAO | 1:1.200.000 | ENROUTE CHART – UPPER AIRSPACE | 10 |
| | 1:1.200.000 | ALTN ATS Routes over the Black Sea Area - Upper Airspace ENROUTE CHART – LOWER AIRSPACE ALTN ATS Routes over the Black Sea Area - Lower Airspace Free Route Airspace ARAD TMA Lateral and vertical limits Flight Information Service (FIS) Areas | 10 |
| Index Charts * | | Prohibited, Restricted and Dangerous Areas (P, R, D) Upper Airspace Temporary Reserved Areas (TRA) Upper Airspace Prohibited, Restricted and Dangerous Areas (P, R, D) Lower Airspace Temporary Reserved/Segregated Areas (TRA/TSA) Lower Airspace | |
| VFR Chart - ICAO 1:500.000 ** | 1:500.000 | LR1 Transilvania LR2 Muntenia LR3 Moldova | |

GEN 3.3 AIR TRAFFIC SERVICES

1. Responsible service

The Romanian Air Traffic Services Administration is the responsible authority for the provision of air traffic services within the area indicated under 2, below

Romanian Air Traffic Services Administration - ROMATSA
10, Ion Ionescu de la Brad blvd.
1-Bucharest, 013813, ROMANIA
AFS : LRBBRTYD
PTT : 11493 METBUH R
TEL : +40-(0)21-2083100
FAX : +40-(0)21-2302442

The services are provided in accordance with the provisions contained in the following ICAO documents:

Annex 2 - *Rules of the Air*

Annex 11 - *Air Traffic Services*

Doc 4444 - *Procedures for Air Navigation Services - Air Traffic Management (PANS-ATM)*

Doc 8168 - *Procedures for Air Navigation Services - Aircraft Operations (PANS-OPS)*

Doc 7030 - *Regional Supplementary Procedures*

Differences to these provisions are detailed in subsection GEN 1.7.

2. Area of responsibility

2.1 Air traffic services are provided for the entire territory of BUCUREȘTI FIR.

2.2 Pursuant to the Agreement on the establishment of the DANUBE Functional Airspace Block Republic of Bulgaria and Romania jointly designated Bulgarian Air Traffic Services Authority – BULATSA (see AIP Republic of Bulgaria) and Romanian Traffic Services Administration – ROMATSA to provide air traffic services across the national borders.

As a result of this designation in some parts of BUCUREȘTI FIR air traffic services are provided by BULATSA. Details on cross-border service provision are provided in ENR 2.2.

3. Types of services

The following types of services are provided:

- Air traffic control services:
 - Area Control Service - Radar;
 - Approach Control Service - Radar/Procedural;
 - Aerodrome Control Service;
- Flight Information Service (FIS):
 - Aerodrome Terminal Information Service (ATIS), at certain aerodromes;
- Alerting Service (ALRS).

For flights operating in class G airspace in accordance with a flight plan or otherwise known to the relevant air traffic services units, FIS and ALRS are provided on the "București Information" frequencies (see ENR 2.1-1), depending on the radio coverage (see ENR 6-40). In class A and C airspace, FIS and ALRS are provided by the ATC units in their area of responsibility, on the allocated frequencies.

FIS areas corresponding to ATC sectors:

Muntenia and Oltenia - KOMAN + NERDI + LOMOS + ARGES
Banat - MOPUG + BUDOP
Ardeal - NAPOC
Moldova - BACAU
Dobrogea - DINSI

4. Co-ordination between the operator and ATS

Co-ordination between the operator and air traffic services is effected in accordance with paragraph 2.15 of ICAO Annex 11 and 2.1.1.4 and 2.1.1.5 of Part VIII of the *Procedures for Air Navigation - Services Air Traffic Management* (Doc 4444, PANS-ATM).

GEN 3.3 SERVICIILE DE TRAFIC AERIAN

1. Serviciu responsabil

Administrația Română a Serviciilor de Trafic Aerian este autoritatea desemnată care asigură serviciile de trafic aerian în zona specificată în paragraful 2, mai jos.

Administrația Română a Serviciilor de Trafic Aerian - ROMATSA
Blvd. Ion Ionescu de la Brad nr. 10
Cod 013813, BUCUREȘTI, ROMÂNIA
AFS : LRBBRTYD
PTT : 11493 METBUH R
TEL : +40-(0)21-2083100
FAX : +40-(0)21-2302442

Serviciile sunt asigurate în conformitate cu specificațiile prevăzute în următoarele documente ICAO:

Anexa 2 - *Regulile Aerului*

Anexa 11 - *Serviciile de Trafic Aerian*

Doc 4444 - *Proceduri pentru serviciile de navigație aeriană - Managementul Traficului Aerian (PANS-ATM)*

Doc 8168 - *Proceduri pentru serviciile de navigație aeriană - Operarea Aeronavelor - (PANS-OPS)*

Doc 7030 - *Proceduri Suplimentare Regionale*

Diferențele față de aceste specificații sunt detaliate în subsecțiunea GEN 1.7.

2. Zona de responsabilitate

2.1 Serviciile de trafic aerian sunt asigurate pentru spațiul aerian al FIR BUCUREȘTI.

2.2. În conformitate cu Acordul privind instituirea Blocului de Spațiu Aerian DANUBE Republica Bulgaria și România au desemnat în comun Autoritatea Bulgară a Serviciilor de Trafic Aerian - BULATSA (vezi AIP Republica Bulgaria) și Administrația Română a Serviciilor de Trafic Aerian - ROMATSA să furnizeze servicii de trafic aerian peste granițele naționale. Ca rezultat al acestei desemnări în unele porțiuni din FIR BUCUREȘTI serviciile de trafic aerian sunt furnizate de BULATSA. Detalii despre serviciile cross-border sunt furnizate în ENR 2.2.

3. Tipuri de servicii

Sunt asigurate următoarele servicii de trafic aerian:

- Servicii de control al traficului aerian (ATC):
 - Serviciul de Control Regional - Radar;
 - Serviciul de Control de Apropiere - Radar/Non-Radar;
 - Serviciul de Control de Aerodrom.
- Serviciul de Informare a Zborurilor (FIS):
 - Serviciul de Informare Terminală Automată (ATIS), la anumite aerodromuri.
- Serviciul de Alarmare (ALRS).

Pentru zborurile care operează în spațiul aerian de clasă G în baza unui plan de zbor sau care sunt cunoscute în alt mod de către unitățile de servicii de trafic aerian competente, FIS și ALRS sunt furnizate pe frecvențele "București Information" (a se vedea ENR 2.1-1), în funcție de acoperirea radio (a se vedea harta ENR 6-40). În spațiul de clasă A și C, FIS și ALRS sunt furnizate de unitățile ATC în zona lor de responsabilitate, pe frecvențele alocate.

Zonele de furnizare FIS corespunzătoare sectoarelor ATC:

Muntenia și Oltenia - KOMAN + NERDI + LOMOS + ARGES
Banat - MOPUG + BUDOP
Ardeal - NAPOC
Moldova - BACAU
Dobrogea - DINSI

4. Coordonarea între operator și ATS

Coordonarea între operator și organele care asigură serviciile de trafic aerian se face în conformitate cu Capitolul 2.15 din Anexa 11 ICAO și Capitolele 2.1.1.4 and 2.1.1.5 ale Partii VIII din *Proceduri pentru Serviciile de Navigație Aeriană - Managementul Traficului Aerian* (Doc 4444, PANS-ATM).



5. Minimum flight altitude

The minimum flight altitudes on the ATS routes, as presented in section ENR 3, have been determined so as to ensure at least 300m (984ft) vertical clearance above the highest obstacle in the area concerned. In mountainous areas the minimum vertical clearance shall be increased, depending on variation in terrain elevation:

- a) 600m (1969ft) for areas with a variation in terrain elevation greater than 1500m (5000ft);
- b) 450m (1476ft) for areas with a variation in terrain elevation between 900m (3000ft) and 1500m (5000ft).

Mountainous area is represented by an area of changing terrain profile where the changes of terrain elevation exceed 900m (3000ft) within a distance of 10NM (18.5km).

Note - The navigation performance accuracy necessary for operation on air routes within BUCUREȘTI FIR is expressed as an RNP type. RNP type is a containment value expressed as a distance in NM from the intended position within which flights would be for at least 95 per cent of the total flying time. For operation on the air routes in BUCUREȘTI FIR, the required navigation performance is RNP 5.



5. Altitudinea minimă de zbor

Altitudinea minimă de zbor pe rutele ATS, prezentată în secțiunea ENR 3, a fost stabilită astfel încât să asigure o înălțime minimă de siguranță de cel puțin 300m (984ft) față de cel mai înalt obstacol din aria considerată. În zonele muntoase înălțimea minimă de siguranță va fi crescută, în funcție de variația cotei terenului :

- a. 600m (1969ft) pentru ariile cu o variație a cotei terenului mai mare de 1500m (5000ft) ;
- b. 450m (1476ft) pentru ariile cu o variație a cotei terenului cuprinsă între 900m (3000ft) și 1500m (5000ft).

Zonele muntoase sunt reprezentate de zonele în care profilul terenului este variabil și în care variațiile cotei terenului depășesc 900m (3000ft) pe o distanță de 10NM (18.5km).

Notă - Precizia performanței de navigație necesară pentru operarea pe rutele aeriene în FIR BUCUREȘTI este exprimată prin tipul RNP. Tipul RNP este o valoare de încadrare în lățimea căii aeriene, exprimată ca o distanță în NM față de poziția prevăzută în care se desfășoară cel puțin 95 % din timpul de zbor total. Pentru operarea pe rutele aeriene din FIR BUCUREȘTI, valoarea RNP este 5 (cinci).



6. ATS units address list

| <i>Unit name</i> | <i>Postal address</i> | <i>Telefon No.</i> | <i>Telefax No.</i> | <i>Telex No.</i> | <i>AFS address</i> |
|------------------|---|---|----------------------------------|------------------|--------------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| BUCUREȘTI ACC | D.R. BUCUREȘTI Str. Ion Ionescu de la Brad, nr. 10, Cod 013813, București, România | +40-21-2083150 | +40-21-2083261 | | LRBBZQZX |
| ARAD APP | D.S.N.A.R. Arad Str. Henri Coandă nr.29 Cod 310429, Arad, România | +40-257-270215 | +40-257-250051 | | LRARZAZX |
| BUCUREȘTI APP | D.R. BUCUREȘTI Str. Ion Ionescu de la Brad, nr. 10, Cod 013813, București, România | +40-21-2083120 | +40-21-2083265 | | LROPZAZX |
| CONSTANȚA APP | D.S.N.A.R. Constanța Aeroportul Constanța Constanța, România | +40-241-742359, +40-241-258011 ext. 114 | +40-241-742359 | | LRCKZAZX |
| ARAD TWR | D.S.N.A.R. Arad Aeroportul Arad, Calea Aeroportului nr.4, Arad, România | +40-257-255706 ext. 157 | | | LRARZTZX |
| BACĂU TWR | D.S.N.A. Bacău Str.Aeroportului nr.1 Cod 600324 Bacău, România | +40-234-575432 +40-722-309157 | +40-234-575432 | | LRBCZTZX |
| BAIA MARE TWR | D.S.N.A Baia Mare O.P. 2, C.P. 208 Cod 4800 Baia Mare, România | +40-262-293811 | +40-262-293811 | | LRBMZTZX |
| BĂNEASA TWR | D.S.N.A. București Compania Națională Aeroporturi București, Șos. București- Ploiești nr. 40, Sector 1 București, România | +40-21-2323961 +40-21-2032104 +40-21-2324016 ext.108 | | | LRBSZTZX |
| CONSTANȚA TWR | D.S.N.A.R. Constanța Aeroportul Constanța, Str. Tudor Vladimirescu, Mihail Kogălniceanu, România | +40-241-258012 ext. 188 +40-241-258872 | | | LRCKZTZX |
| CLUJ TWR | D.S.N.A. Cluj Str.Traian Vuia nr.149 Cod 400397 Cluj Napoca, România | +40-264-416635 +40-264-416702 ext. 229 | +40-264-416635 | | LRCLZTZX |
| CRAIOVA TWR | D.S.N.A. Craiova Șos. Craiova-București, Km 7, 1100 Craiova, Romania | +40-251-415180 | +40-251-410631 | | LRCVZTZX |
| IAȘI TWR | D.S.N.A. Iași OP 1, CP.238, Cod 700750 Iași, România | +40-232-271520 +40-232-271550 | +40-232-271520 +40-232-271550 | | LRIAZTZX |
| ORADEA TWR | D.S.N.A. Oradea Str. Calea Aradului, km. 6 Cod 410223 Oradea, România | +40-259-427366 | +40-259-412113 | | LRODZTZX |
| OTOPENI TWR | D.S.N.A. București Compania Națională Aeroporturi București, Calea Bucureștilor nr. 224E, Județul Ilfov, Otopeni, România | +40-21-6792241 +40-21-3120114 +40-21-2041108 | +40-21-3114312 | | LROPZTZX |
| SIBIU TWR | D.S.N.A. Sibiu Aeroportul Sibiu Șos. Alba Iulia, nr.73 Cod 550052 Sibiu, România | +40-269-228088 | +40-269-229555 | | LRSBZTZX |
| SATU MARE TWR | D.S.N.A. Satu Mare Șos. Satu Mare-Zalău, km 9.5 O.P. 7, C.P. 10 Cod 3900 Satu Mare, România | +40-261-770053 | +40-261-770053 | | LRSMZTZX |
| SUCEAVA TWR | D.S.N.A. Suceava CP 128, OP 1 Cod 720330 Suceava, România | +40-230-535602 | +40-230-535602 | | LRSVZTZX |
| MUREȘ TWR | D.S.N.A. Târgu Mureș Cod 547612 Județul Mureș, România | +40-265-328260 | +40-265-328260 | | LRTMZTZX |
| TIMIȘOARA TWR | D.S.N.A. Timișoara Aeroportul Internațional Traian Vuia, OP 1,CP.290, Cod 1900, Timișoara, România | +40-256-295911 | | | LRTRZTZX |
| TULCEA TWR | D.S.N.A. Tulcea Șos. Tulcea-Constanța km 15 OP 55, CP 14, Cod 820300 Tulcea, România | +40-240-511581 | +40-240-511581 | | LRTCZTZX |

SIBIU / Sibiu (LRSB)**1. Landing Charge**

UNIT RATE: 6.30 EURO / tone

2. Lighting charge

UNIT RATE: 1.50 EURO / tone / each movement using the lighting system

3. Parking charge

UNIT RATE: 0.05 EURO / tone / hour

4. Passengers service

UNIT RATE: 2.50 EURO / passenger

SECURITY CHARGE: 1.00 EURO / passenger

TRANSIT OR TRANSFER: 1.00 EURO / passenger

5. Other charges

Nil

6. Exemptions

I) The airport users that consider they should be exempted from VAT, should provide to the airport administration 24 hours before the start of the flight the following documents:

- VAT number in accordance with company's Certificate of Registration as a tax payer for VAT;
- a copy of the Air Operator Certificate (AOC).

II) Parking charge: The parking charge is not applied for the first 3 hours after landing.

7. Reductions

7.1 The rebates applied to the landing charge are determined by the number of landings performed by one air operator in one month, as follow

| Number of landings / month | Landing charge rebate (%) |
|----------------------------|---------------------------|
| 4 – 16 | 5 |
| 17 – 24 | 10 |
| 25 – 32 | 15 |
| 33 – 40 | 20 |
| 41 – 48 | 25 |
| 49 – 56 | 30 |
| 57 – 64 | 35 |
| 65 – 72 | 40 |
| 73 - 80 | 45 |
| 81 - | 50 |

Note: Rebates are granted according to an agreement concluded between airport administration and air operator.

8. Methods of payment

8.1 The payment of the charges in the above items 1 - 5 is levied in LEI for Romanian air operators and in EUR for foreign air operators.

8.2 The payment of airport charges, for aircraft carrying out non-scheduled flights, will be effected in cash or by card (VISA or EUROCARD/MASTERCARD) to the airport handling operator / ATC.

8.3 Charges do not include the legal VAT rate.

SIBIU / Sibiu (LRSB)

1. Tariful de aterizare

NIVELUL UNITAR AL TARIFULUI: 6.30 EURO / tonă

2. Tariful de iluminare

NIVELUL UNITAR AL TARIFULUI: 1.50 EURO / tonă / fiecare mișcare cu utilizare de balizaj

3. Tariful de staționare

NIVELUL UNITAR AL TARIFULUI: 0.05 EURO / tonă / oră

4. Servicii pentru pasageri

NIVELUL UNITAR AL TARIFULUI: 2.50 EURO / pasager

TARIF DE SECURITATE: 1.00 EURO / pasager

TRANZIT SAU TRANSFER: 1.00 EURO / pasager

5. Alte tarife

Nil

6. Scutiri

I) Utilizatorii aeroportului care consideră că trebuie să fie scutiți de TVA trebuie să prezinte la administrația aeroportului cu 24 de ore înainte de începerea zborului, următoarele documente:

- codul de înregistrare fiscală (CIF) conform certificatului de înregistrare în scopuri de TVA ;
- AOC.

II) Tarif de staționare: pentru primele 3 ore după aterizare nu se aplică tariful de staționare.

7. Reduceri

7.1 În funcție de numărul de aterizări efectuate de către un operator aerian în decurs de o lună se aplică reduceri la tariful de aterizare / decolare, astfel:

| Nr. de aterizări / lună | Reducere tarif aterizare / decolare (%) |
|-------------------------|---|
| 4 – 16 | 5 |
| 17 – 24 | 10 |
| 25 – 32 | 15 |
| 33 – 40 | 20 |
| 41 – 48 | 25 |
| 49 – 56 | 30 |
| 57 – 64 | 35 |
| 65 – 72 | 40 |
| 73 - 80 | 45 |
| 81 - | 50 |

Notă: Reducerile se acordă în baza unui contract încheiat între administrația aeroportului și operatorul aerian.

8. Metoda de plată

8.1 Tarifele de la punctele 1-5 de mai sus se achită la aeroport în lei pentru operatorii aerieni români (cu sediul social în România) și în EUR pentru operatorii aerieni străini.

8.2 Plata tarifelor pentru utilizatorii, care efectuează zboruri neregulate (ocasionale), se va face în numerar sau cu card (marca VISA sau EUROCARD/MASTERCARD) la aeroport – operator handling / CTA.

8.3 Tarifele nu includ cota legală de TVA.

ENR 3. ATS ROUTES

| | | |
|---------|-------------------------------------|-----------|
| ENR 3.1 | Lower ATS routes | ENR 3.1-1 |
| ENR 3.2 | Upper ATS routes | ENR 3.2-1 |
| ENR 3.3 | Area Navigation (RNAV) routes | ENR 3.3-1 |
| ENR 3.4 | Helicopter routes | ENR 3.4-1 |
| ENR 3.5 | Other routes | ENR 3.5-1 |
| ENR 3.6 | En-route holding | ENR 3.6-1 |

ENR 4. RADIO NAVIGATION AIDS/SYSTEMS

| | | |
|---------|--|-----------|
| ENR 4.1 | Radio navigation aids - en-route | ENR 4.1-1 |
| ENR 4.2 | Special navigation systems | ENR 4.2-1 |
| ENR 4.3 | Global navigation satellite system (GNSS) | ENR 4.3-1 |
| ENR 4.4 | Name-code designators for significant points | ENR 4.4-1 |
| ENR 4.5 | Aeronautical ground lights - en-route | ENR 4.5-1 |

ENR 5. NAVIGATION WARNINGS

| | | |
|---------|---|-----------|
| ENR 5.1 | Prohibited, restricted and danger areas | ENR 5.1-1 |
| ENR 5.2 | Military exercise and training areas | ENR 5.2-1 |
| ENR 5.3 | Other activities of dangerous nature | ENR 5.3-1 |
| ENR 5.4 | Air navigation obstacles - en-route | ENR 5.4-1 |
| ENR 5.5 | Aerial sporting and recreational activities | ENR 5.5-1 |
| ENR 5.6 | Bird migration and areas with sensitive fauna | ENR 5.6-1 |

ENR 6. EN-ROUTE CHARTS

| | | |
|-----------|---|-----------|
| ENR 6.1 | En-Route Chart - Upper Airspace | ENR 6-1 |
| ENR 6.1a | ALTN ATS Routes over the Black Sea - Upper Airspace | ENR 6-1a |
| ENR 6.2 | En-Route Chart - Lower Airspace | ENR 6-2 |
| ENR 6.2a | ALTN ATS Routes over the Black Sea - Lower Airspace | ENR 6-2a |
| ENR 6.10 | Prohibited, Restricted and Dangerous Areas (P, R, D) Upper Airspace - Index Chart | ENR 6-10 |
| ENR 6.11 | Temporary Reserved Areas (TRA) Upper Airspace - Index Chart | ENR 6-11 |
| ENR 6.20 | Prohibited, Restricted and Dangerous Areas (P, R, D) Lower Airspace - Index Chart | ENR 6-20 |
| ENR 6.21 | Temporary Reserved/Segregated Areas (TRA/TSA) Lower Airspace - Index Chart | ENR 6-21 |
| ENR 6.40 | Flight Information Service (FIS) Areas | ENR 6-40 |
| ENR 6.51 | ARAD TMA Lateral and vertical limits | ENR 6-51 |
| ENR 6.100 | Free Route Airspace Chart | ENR 6-100 |

ENR 3. RUTE ATS

| | | |
|---------|---|-----------|
| ENR 3.1 | Rute ATS în spațiul aerian inferior | ENR 3.1-1 |
| ENR 3.2 | Rute ATS în spațiul aerian superior | ENR 3.2-1 |
| ENR 3.3 | Rute RNAV | ENR 3.3-1 |
| ENR 3.4 | Rute pentru elicoptere | ENR 3.4-1 |
| ENR 3.5 | Alte rute | ENR 3.5-1 |
| ENR 3.6 | Proceduri de așteptare pe rută..... | ENR 3.6-1 |

ENR 4. MIJLOACE/SISTEME DE RADIONAVIGAȚIE

| | | |
|---------|--|-----------|
| ENR 4.1 | Mijloace de radionavigație de rută..... | ENR 4.1-1 |
| ENR 4.2 | Mijloace de radionavigație pe aerodromuri | ENR 4.2-1 |
| ENR 4.3 | Sistemul satelitar de navigație aeriană (GNSS)..... | ENR 4.3-1 |
| ENR 4.4 | Identificatorii punctelor de raport | ENR 4.4-1 |
| ENR 4.5 | Sisteme luminoase aeronautice la sol pentru navigația pe rută..... | ENR 4.5-1 |

ENR 5. AVERTISMENTE PENTRU NAVIGAȚIE

| | | |
|---------|---|-----------|
| ENR 5.1 | Zone interzise, restricționate și periculoase | ENR 5.1-1 |
| ENR 5.2 | Zone pentru exerciții militare și antrenament | ENR 5.2-1 |
| ENR 5.3 | Alte activități cu caracter periculos | ENR 5.3-1 |
| ENR 5.4 | Obstacole pentru navigația aeriană pe rută | ENR 5.4-1 |
| ENR 5.5 | Zone pentru activități aeriene sportive și recreaționale..... | ENR 5.5-1 |
| ENR 5.6 | Migrația păsărilor și zone cu faună sensibilă..... | ENR 5.6-1 |

ENR 6. HĂRȚI DE RUTĂ

| | | |
|-----------|---|-----------|
| ENR 6.1 | Hartă de Rută - Spațiul Superior | ENR 6-1 |
| ENR 6.1a | Rute ATS alternative deasupra Mării Negre - Spațiul Superior | ENR 6-1a |
| ENR 6.2 | Hartă de Rută - Spațiul Inferior..... | ENR 6-2 |
| ENR 6.2a | Rute ATS alternative deasupra Mării Negre - Spațiul Inferior | ENR 6-2a |
| ENR 6.10 | Harta cu zonele interzise, restricționate și periculoase (P, R, D) Spațiul Superior - hartă index .. | ENR 6-10 |
| ENR 6.11 | Harta cu zonele rezervate temporar (TRA) Spațiul Superior - hartă index | ENR 6-11 |
| ENR 6.20 | Harta cu zonele interzise, restricționate și periculoase (P, R, D) Spațiul Inferior - hartă index.... | ENR 6-20 |
| ENR 6.21 | Harta cu zonele rezervate/segregate temporar (TRA/TSA) Spațiul Inferior - hartă index | ENR 6-21 |
| ENR 6.40 | Zonele de furnizare FIS | ENR 6-40 |
| ENR 6.51 | TMA ARAD Limite laterale și verticale | ENR 6-51 |
| ENR 6.100 | Hartă Free Route Airspace..... | ENR 6-100 |

ENR 2. AIR TRAFFIC SERVICES AIRSPACE

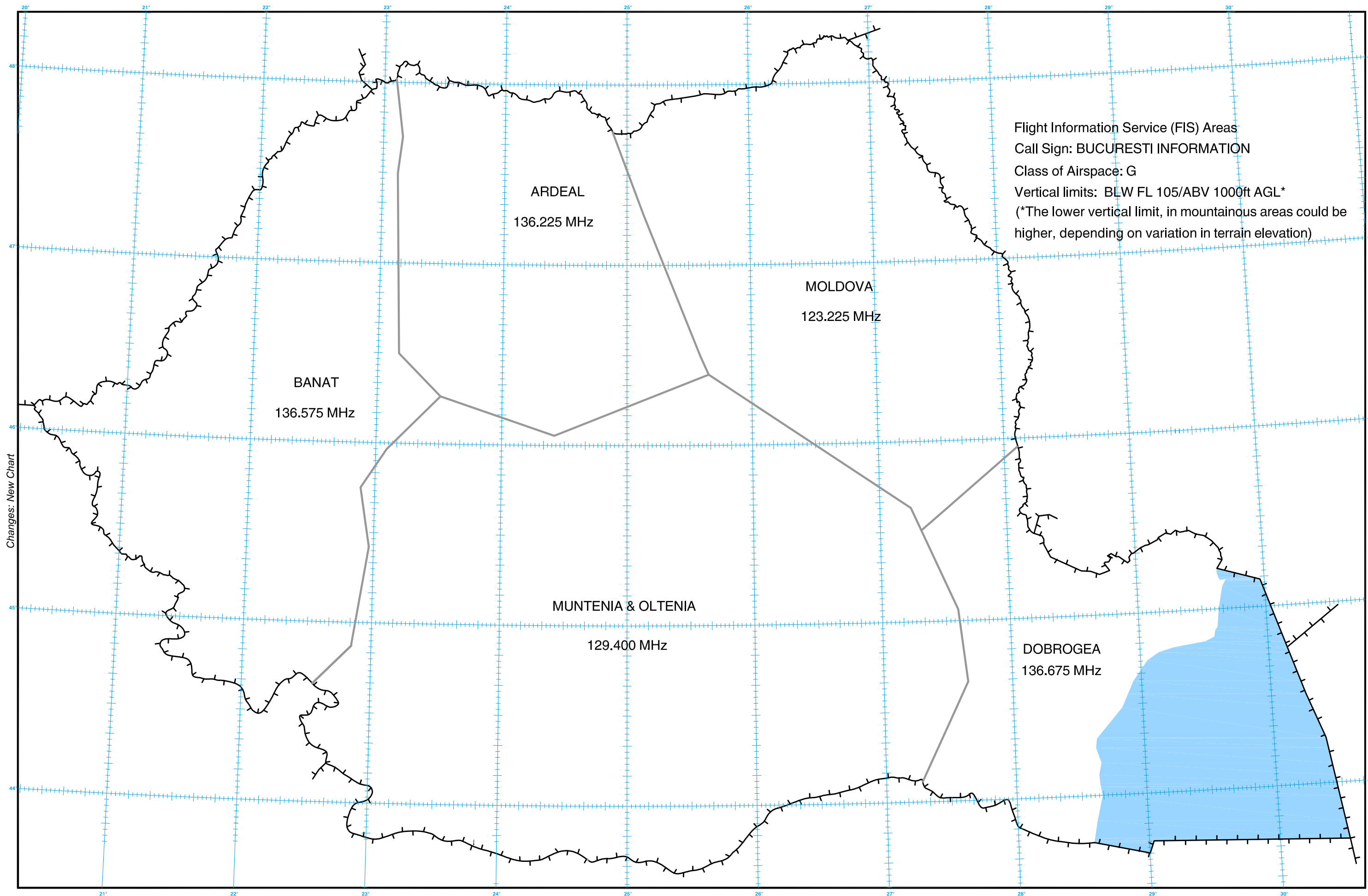
ENR 2.1 FIR, CTA, TMA

| Name Lateral limits Vertical Limits Class of airspace | Unit providing service | Call sign Languages Area and conditions of use Hours of service | Frequency/Purpose | Remarks |
|---|---|--|--|---|
| 1 | 2 | 3 | 4 | 5 |
| <p align="center">BUCUREȘTI FIR</p> <p>451300N 0294000E - 450900N 0295800E - 443000N 0301600E - 441500N 0302400E - 434100N 0303200E - 434400N 0290200E - 434000N 0290000E - 434500N 0283600E - then border of SOFIA FIR, BEOGRAD FIR, BUDAPEST FIR, LVIV FIR, CHISINAU FIR, ODESA FIR up to the point of coordinates: 451300N 0294000E</p> <p align="center"><u>FL 660</u> GND</p> <p>Class of airspace: - C ABV, but not including FL 105, ATS routes, CTRs, TMA - A TMA - G outside other regulated airspace</p> | <p align="center">BUCUREȘTI ACC</p> | <p align="center">București Information RO, ENG H24</p> | <p>129.400 MHz - frequency for Muntenia and Oltenia FIS area</p> <p>136.575 MHz - frequency for Banat FIS area</p> <p>136.225 MHz - frequency for Ardeal FIS area</p> <p>123.225 MHz - frequency for Moldova FIS area</p> <p>136.675 MHz - frequency for Dobrogea FIS area</p> <p>121.500 MHz - Emergency FREQ</p> | <p>The airspace layer between FL 290 - FL 410 (both included) of BUCUREȘTI FIR is part of EUR RVSM airspace.</p> <p>Frequencies are not protected above FL 450.</p> <p>FIS areas are depicted at ENR 6-40</p> <p>See GEN 3.3-1 for BUCUREȘTI INFORMATION FREQs.</p> |

| Sectors within BUCUREȘTI CTA | | | | |
|--|---|---|--|--|
| 1 | 2 | 3 | 4 | 5 |
| <p align="center">Sector MOPUG</p> <p>462500N 0211740E - 461244N 0213145E - 454355N 0222956E - 453240N 0225607E - 452457N 0225755E - 445202N 0225051E - 443910N 0223310E - then border of BEOGRAD FIR, BUDAPEST FIR up to the point of coordinates 462500N 0211740E</p> <p align="center"><u>FL 660</u> Lower limit of ATS routes</p> <p>Class of airspace: - C ABV, but not including FL 105, ATS routes, CTRs, TMA - G outside other regulated airspace</p> | <p align="center">BUCUREȘTI ACC</p> | <p align="center">București Radar București Control RO, ENG H24</p> | <p>125.765 MHz - TOP (ABV FL 345) 121.375 MHz - MIDDLE (BLW FL 345)</p> <p>124.350 MHz - ALTN FREQ</p> <p>121.500 MHz - Emergency FREQ</p> | <p>Frequencies are not protected above FL 450.</p> |
| <p align="center">Sector BUDOP</p> <p>480100N 0230600E - 474140N 0230939E - 472929N 0230730E - 462935N 0231008E - 461533N 0233031E - 455737N 0230517E - 454442N 0225318E - 453240N 0225607E - 454355N 0222956E - 461244N 0213145E - 462500N 0211740E - then border of BUDAPEST FIR, LVIV FIR up to the point of coordinates: 480100N 0230600E</p> <p align="center"><u>FL 660</u> Lower limit of ATS routes</p> <p>Class of airspace: - C ABV, but not including FL 105, ATS routes, CTRs, TMA - G outside other regulated airspace</p> | | | <p>134.460 MHz - TOP (ABV FL 345) 124.100 MHz - MIDDLE (BLW FL 345)</p> <p>132.750 MHz - ALTN FREQ</p> <p>121.500 MHz - Emergency FREQ</p> | <p>Frequencies are not protected above FL 450.</p> |

| 1 | 2 | 3 | 4 | 5 |
|---|---------------|--|--|--|
| <p>Sector NAPOC</p> <p>480100N 0230600E then border of LVIV FIR up to the point of coordinates 474400N 0245259E - 471609N 0250821E - 462912N 0253532E - 462314N 0253920E - 460256N 0242514E - 461533N 0233031E - 462935N 0231008E - 472929N 0230730E - 474140N 0230939E - 480100N 0230600E</p> <p>FL 660 Lower limit of ATS routes</p> <p>Class of airspace: - C ABV, but not including FL 105, ATS routes, CTRs - G outside other regulated airspace</p> | | | <p>127.075 MHz 120.925 MHz – ALTN FREQ</p> <p>121.500 MHz - Emergency FREQ</p> | <p>Frequencies are not protected above FL 450.</p> |
| <p>Sector LOMOS</p> <p>452457N 0225755E - 445212N 0250955E - 443737N 0250858E - 442038N 0251212E - 441155N 0242223E - 435747N 0243219E - 435236N 0243420E - 434153N 0244148E - then border of SOFIA FIR, BEOGRAD FIR up to the point of coordinates 443910N 0223310E - 445202N 0225051E - 452457N 0225755E</p> <p>FL 660 Lower limit of ATS routes</p> <p>Class of airspace: - C ABV, but not including FL 105, ATS routes, CTRs - G outside other regulated airspace</p> | | | <p>132.865 MHz - TOP (ABV FL 345) 122.025 MHz - MIDDLE (BLW FL 345)</p> <p>124.975 MHz - ALTN FREQ 126.725 MHz - ALTN FREQ 123.900 MHz - ALTN FREQ</p> <p>121.500 MHz - Emergency FREQ</p> | <p>Frequencies are not protected above FL 450.</p> |
| <p>Sector KOMAN 1</p> <p>445418N 0254515E - 442627N0260924E - 440350N 0263945E - then border of SOFIA FIR up to the point of coordinates 434153N 0244148E - 435236N 0243420E - 435747N 0243219E - 441155N 0242223E - 442038N 0251212E - 443737N 0250858E - 445212N 0250955E - 445418N 0254515E</p> <p>FL 245 Lower limit of ATS routes</p> <p>Class of airspace: - C ABV, but not including FL 105, ATS routes, CTRs - A TMA - G outside other regulated airspace</p> | BUCUREȘTI ACC | București Radar București Control RO, ENG H24 | <p>129.750 MHz - MIDDLE</p> <p>126.725 MHz - ALTN FREQ 123.900 MHz - ALTN FREQ</p> <p>121.500 MHz - Emergency FREQ</p> | |
| <p>Sector KOMAN 2</p> <p>445418N 0254515E - 442627N0260924E - 440350N 0263945E - then border of SOFIA FIR up to the point of coordinates 435213N 0255833E - 435647N 0254432E - 435846N 0252818E - 435824N 0250009E - 434153N 0244148E - 435236N 0243420E - 435747N 0243219E - 441155N 0242223E - 442038N 0251212E - 443737N 0250858E - 445212N 0250955E - 445418N 0254515E</p> <p>FL 660 FL 245</p> <p>Class of airspace: - C ABV, but not including FL 105, ATS routes, CTRs - A TMA - G outside other regulated airspace</p> | | | <p>134.380 MHz - TOP (ABV FL 345) 129.750 MHz - MIDDLE (BLW FL 345)</p> <p>126.725 MHz - ALTN FREQ 123.900 MHz - ALTN FREQ</p> <p>121.500 MHz - Emergency FREQ</p> | <p>Frequencies are not protected above FL 450.</p> |

Flight Information Service (FIS) Areas



Changes: New Chart

| | | | |
|------|---------|---|-----------|
| LRSP | AD 2.1 | Aerodrome location indicator and name | AD 2.21-1 |
| LRSP | AD 2.2 | Aerodrome geographical and administrative data | AD 2.21-1 |
| LRSP | AD 2.3 | Operational hours | AD 2.21-1 |
| LRSP | AD 2.4 | Handling services and facilities | AD 2.21-1 |
| LRSP | AD 2.5 | Passenger facilities | AD 2.21-1 |
| LRSP | AD 2.6 | Rescue and fire fighting services | AD 2.21-1 |
| LRSP | AD 2.7 | Seasonal availability clearing | AD 2.21-2 |
| LRSP | AD 2.8 | Aprons, taxiways and check locations data | AD 2.21-2 |
| LRSP | AD 2.9 | Surface movement guidance and control system and markings | AD 2.21-2 |
| LRSP | AD 2.10 | Aerodrome obstacles | AD 2.21-2 |
| LRSP | AD 2.11 | Meteorological information provided | AD 2.21-2 |
| LRSP | AD 2.12 | Runway physical characteristics | AD 2.21-3 |
| LRSP | AD 2.13 | Declared distances | AD 2.21-3 |
| LRSP | AD 2.14 | Approach and runway lighting | AD 2.21-3 |
| LRSP | AD 2.15 | Other lighting, secondary power supply | AD 2.21-3 |
| LRSP | AD 2.16 | Helicopter landing area | AD 2.21-3 |
| LRSP | AD 2.17 | ATS airspace | AD 2.21-4 |
| LRSP | AD 2.18 | ATS communications facilities | AD 2.21-4 |
| LRSP | AD 2.19 | Radio navigation and landing aids | AD 2.21-4 |
| LRSP | AD 2.20 | Local traffic regulations | AD 2.21-4 |
| LRSP | AD 2.21 | Noise abatement procedures | AD 2.21-4 |
| LRSP | AD 2.22 | Flight procedures | AD 2.21-4 |
| LRSP | AD 2.23 | Additional information | AD 2.21-4 |
| LRSP | AD 2.24 | Charts related to an aerodrome | AD 2.21-4 |

| | | | |
|-----------------|--------------------|--|----------------------|
| LRFL | AD 2.1 | Aerodrome location indicator and name | AD 2.22-1 |
| LRFL | AD 2.2 | Aerodrome geographical and administrative data | AD 2.22-1 |
| LRFL | AD 2.3 | Operational hours | AD 2.22-1 |
| LRFL | AD 2.4 | Handling services and facilities | AD 2.22-1 |
| LRFL | AD 2.5 | Passenger facilities | AD 2.22-1 |
| LRFL | AD 2.6 | Rescue and fire fighting services | AD 2.22-1 |
| LRFL | AD 2.7 | Seasonal availability clearing | AD 2.22-2 |
| LRFL | AD 2.8 | Aprons, taxiways and check locations data | AD 2.22-2 |
| LRFL | AD 2.9 | Surface movement guidance and control system and markings | AD 2.22-2 |
| LRFL | AD 2.10 | Aerodrome obstacles | AD 2.22-2 |
| LRFL | AD 2.11 | Meteorological information provided | AD 2.22-2 |
| LRFL | AD 2.12 | Runway physical characteristics | AD 2.22-3 |
| LRFL | AD 2.13 | Declared distances | AD 2.22-3 |
| LRFL | AD 2.14 | Approach and runway lighting | AD 2.22-3 |
| LRFL | AD 2.15 | Other lighting, secondary power supply | AD 2.22-3 |
| LRFL | AD 2.16 | Helicopter landing area | AD 2.22-3 |
| LRFL | AD 2.17 | ATS airspace | AD 2.22-4 |
| LRFL | AD 2.18 | ATS communications facilities | AD 2.22-4 |
| LRFL | AD 2.19 | Radio navigation and landing aids | AD 2.22-4 |
| LRFL | AD 2.20 | Local traffic regulations | AD 2.22-4 |
| LRFL | AD 2.21 | Noise abatement procedures | AD 2.22-4 |
| LRFL | AD 2.22 | Flight procedures | AD 2.22-4 |
| LRFL | AD 2.23 | Additional information | AD 2.22-4 |
| LRFL | AD 2.24 | Charts related to an aerodrome | AD 2.22-4 |

| | | | |
|------|---------|--|-----------|
| LRPT | AD 2.1 | Aerodrome location indicator and name..... | AD 2.23-1 |
| LRPT | AD 2.2 | Aerodrome geographical and administrative data..... | AD 2-23-1 |
| LRPT | AD 2.3 | Operational hours..... | AD 2.23-1 |
| LRPT | AD 2.4 | Handling services and facilities..... | AD 2.23-1 |
| LRPT | AD 2.5 | Passenger facilities..... | AD 2.23-1 |
| LRPT | AD 2.6 | Rescue and fire fighting services..... | AD 2.23-1 |
| LRPT | AD 2.7 | Seasonal availability clearing..... | AD 2.23-2 |
| LRPT | AD 2.8 | Aprons, taxiways and check locations data..... | AD 2.23-2 |
| LRPT | AD 2.9 | Surface movement guidance and control system and markings..... | AD 2.23-2 |
| LRPT | AD 2.10 | Aerodrome obstacles..... | AD 2.23-2 |
| LRPT | AD 2.11 | Meteorological information provided..... | AD 2.23-2 |
| LRPT | AD 2.12 | Runway physical characteristics..... | AD 2.23-3 |
| LRPT | AD 2.13 | Declared distances..... | AD 2.23-3 |
| LRPT | AD 2.14 | Approach and runway lighting..... | AD 2.23-3 |
| LRPT | AD 2.15 | Other lighting, secondary power supply..... | AD 2.23-3 |
| LRPT | AD 2.16 | Helicopter landing area..... | AD 2.23-3 |
| LRPT | AD 2.17 | ATS airspace..... | AD 2.23-4 |
| LRPT | AD 2.18 | ATS communications facilities..... | AD 2.23-4 |
| LRPT | AD 2.19 | Radio navigation and landing aids..... | AD 2.23-4 |
| LRPT | AD 2.20 | Local traffic regulations..... | AD 2.23-4 |
| LRPT | AD 2.21 | Noise abatement procedures..... | AD 2.23-4 |
| LRPT | AD 2.22 | Flight procedures..... | AD 2.23-4 |
| LRPT | AD 2.23 | Additional information..... | AD 2.23-4 |
| LRPT | AD 2.24 | Charts related to an aerodrome..... | AD 2.23-4 |

AD 3. HELIPORTS

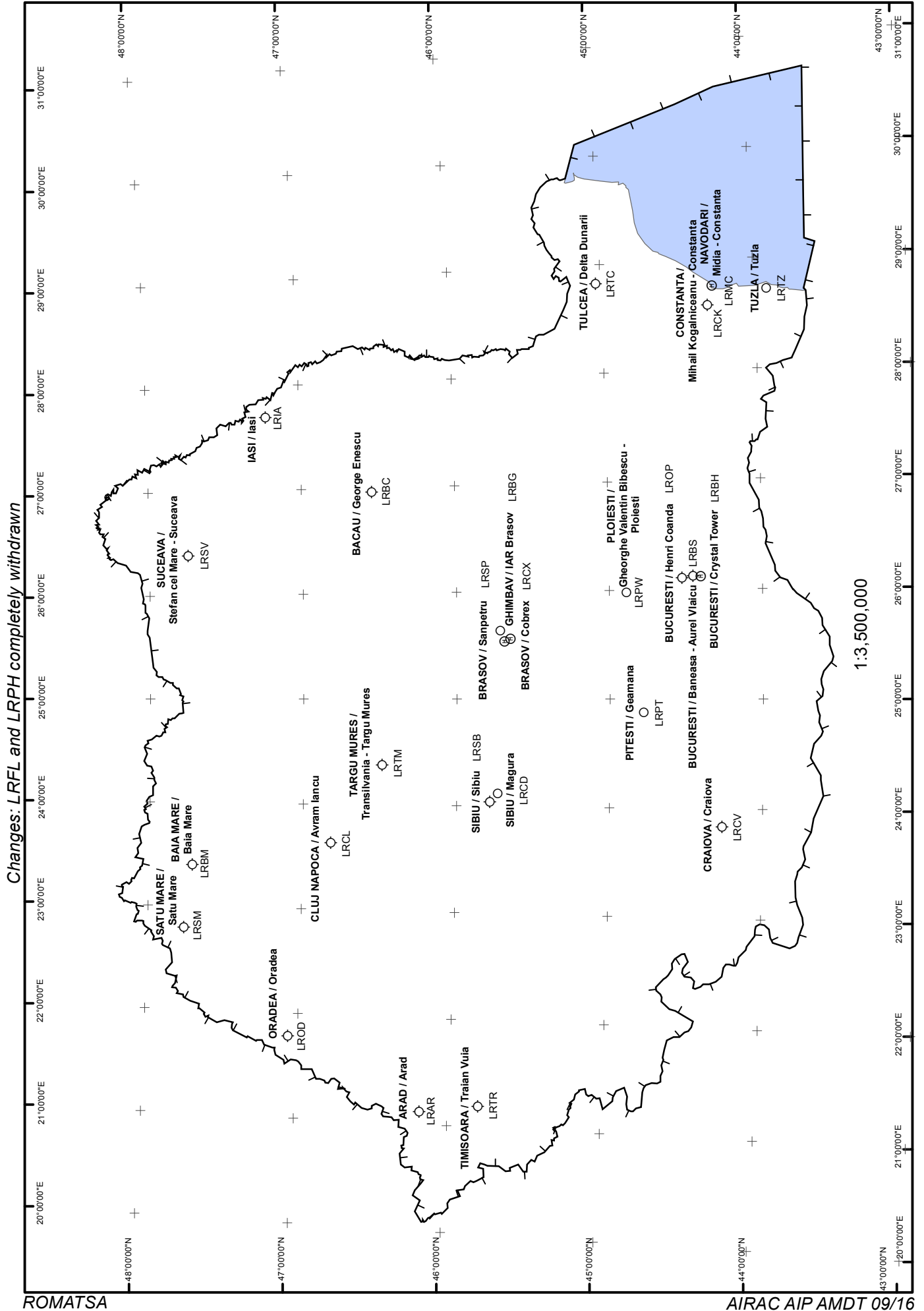
| | | | |
|-----------------|--------------------|---|---------------------|
| LRPH | AD 3.1 | Heliport location indicator and name..... | AD 3.1.1 |
| LRPH | AD 3.2 | Heliport geographical and administrative data..... | AD 3.1.1 |
| LRPH | AD 3.3 | Operational hours..... | AD 3.1.1 |
| LRPH | AD 3.4 | Handling services and facilities..... | AD 3.1.1 |
| LRPH | AD 3.5 | Passenger facilities..... | AD 3.1.1 |
| LRPH | AD 3.6 | Rescue and fire fighting services..... | AD 3.1.2 |
| LRPH | AD 3.7 | Seasonal availability clearing..... | AD 3.1.2 |
| LRPH | AD 3.8 | Aprons, taxiways and check locations data..... | AD 3.1.2 |
| LRPH | AD 3.9 | Markings and markers..... | AD 3.1.2 |
| LRPH | AD 3.10 | Heliport obstacles..... | AD 3.1.2 |
| LRPH | AD 3.11 | Meteorological information provided..... | AD 3.1.2 |
| LRPH | AD 3.12 | Heliport data..... | AD 3.1.3 |
| LRPH | AD 3.13 | Declared distances..... | AD 3.1.3 |
| LRPH | AD 3.14 | Approach and FATO lighting..... | AD 3.1.3 |
| LRPH | AD 3.15 | Other lighting, secondary power supply..... | AD 3.1.3 |
| LRPH | AD 3.16 | ATS airspace..... | AD 3.1.3 |
| LRPH | AD 3.17 | ATS communication facilities..... | AD 3.1.3 |
| LRPH | AD 3.18 | Radio navigation and landing aids..... | AD 3.1.4 |
| LRPH | AD 3.19 | Local traffic regulations..... | AD 3.1.4 |
| LRPH | AD 3.20 | Noise abatement procedures..... | AD 3.1.4 |
| LRPH | AD 3.21 | Flight procedures..... | AD 3.1.4 |
| LRPH | AD 3.22 | Additional information..... | AD 3.1.4 |
| LRPH | AD 3.23 | Charts related to a heliport..... | AD 3.1.4 |

AD 1.3 INDEX TO AERODROMES AND HELIPORTS

| Aerodrom/heliport name Location indicator | Type of traffic permitted to use the aerodrome/heliport | | | Reference to AD section and remarks |
|---|---|----------------|--|---|
| | International - National (INTL-NTL) | IFR-VFR | S =Scheduled NS =Non-scheduled P = Private | |
| 1 | 2 | 3 | 4 | 5 |
| Aerodromes | | | | |
| ARAD/Arad LRAR | INTL - NTL | IFR - VFR | S - NS - P | AD 2.1 |
| BACĂU/George Enescu LRBC | (INTL) - NTL | IFR - VFR | S - NS - P | AD 2.2 |
| BAIA MARE/Baia Mare LRBM | (INTL) - NTL | IFR - VFR | S - NS - P | AD 2.3 |
| BUCUREȘTI/Băneasa - Aurel Vlaicu LRBS | INTL - NTL | IFR - VFR | S - NS - P | AD 2.4 |
| BUCUREȘTI/Henri Coandă LROP | INTL - NTL | IFR - VFR | S - NS - P | AD 2.5 |
| CLUJ NAPOCA/Avram Iancu LRCL | INTL - NTL | IFR - VFR | S - NS - P | AD 2.7 |
| CONSTANȚA/Mihail Kogălniceanu - Constanța LRCK | INTL - NTL | IFR - VFR | S - NS - P | AD 2.8 |
| CRAIOVA/Craiova LRCV | (INTL) - NTL | IFR - VFR | S - NS - P | AD 2.9 |
| IAȘI/Iași LRIA | INTL - NTL | IFR - VFR | S - NS - P | AD 2.10 |
| ORADEA/Oradea LROD | (INTL) - NTL | IFR - VFR | S - NS - P | AD 2.11 |
| SATU MARE/Satu-Mare LRSM | (INTL) - NTL | IFR - VFR | S - NS - P | AD 2.12 |
| SIBIU/Sibiu LRSB | INTL - NTL | IFR - VFR | S - NS - P | AD 2.13 |
| SUCEAVA/Ștefan cel Mare - Suceava LRSV | (INTL) - NTL | IFR - VFR | S - NS - P | AD 2.14 |
| TÂRGU-MUREȘ/Transilvania - Târgu Mureș LRMT | INTL - NTL | IFR - VFR | S - NS - P | AD 2.15 |
| TIMIȘOARA/Traian Vuia LRTR | INTL - NTL | IFR - VFR | S - NS - P | AD 2.16 |
| TULCEA/Delta Dunării LRTC | (INTL) - NTL | IFR - VFR | NS - P | AD 2.17 |
| SIBIU/Măgura LRCD | NTL | VFR | NS - P | AD 2.18 |
| PLOIEȘTI/Gheorghe Valentin Bibescu - Ploiești LRPW | NTL | VFR | NS - P | AD 2.19 |
| TUZLA/Tuzla LRTZ | NTL | VFR | NS - P | AD 2.20 |
| BRAȘOV/Sânpetru LRSP | NTL | VFR | NS - P | AD 2.21 |
| VATRA DORNEI/Floreni LRFL | NTL | VFR | NS - P | AD 2.22 |
| PITEȘTI/Geamăna LRPT | NTL | VFR | NS - P | AD 2.23 |
| Remarks: (INTL) - opened to international traffic only in certain circumstances; - for details, see AD section for each aerodrome. | | | | |

| 1 | 2 | 3 | 4 | 5 |
|-----------------------------------|-----|-----|--------|--------|
| Heliports | | | | |
| PLOIEȘTI/Aero Taxi LRPH | NTL | VFR | NS - P | AD 3.1 |
| GHIMBAV/IAR BRAȘOV LRBG | NTL | VFR | NS - P | AD 3.2 |
| BRAȘOV/Cobrex LRCX | NTL | VFR | NS - P | AD 3.3 |
| BUCUREȘTI/Crystal Tower LRBH | NTL | VFR | NS - P | AD 3.4 |
| NĂVODARI//Midia-Constanța LRMC | NTL | VFR | NS - P | AD 3.5 |

AERODROMES AND HELIPORTS INDEX - CHART



**AD 1.5 AERODROME/HELIPORT CERTIFICATION STATUS
STATUTUL CERTIFICĂRII AERODROMURILOR/HELIPORTURILOR**

| <i>Aerodrome name Location indicator</i> | <i>Date of initial certification Data certificării inițiale</i> | <i>Certificate validity Valabilitatea certificatului</i> | <i>Remarks Observații</i> |
|--|---|--|-------------------------------|
| 1 | 2 | 3 | 4 |
| ARAD/Arad LRAR | 15.04.2002 | 03.08.2016 | AD 2.1 |
| ARAD/Charlie-Bravo Șiria LRCB | 20.10.2014 | 01.10.2017 | Not published |
| BACĂU/George Enescu LRBC | 01.09.2002 | 30.06.2017 | AD 2.2 Civ / Mil |
| BAIA MARE/Baia Mare LRBM | 10.07.2002 | 14.11.2017 | AD 2.3 |
| BUCUREȘTI/Băneasa - Aurel Vlaicu LRBS | 15.07.2002 | 23.12.2017 | AD 2.4 |
| BUCUREȘTI/Henri Coandă LROP | 30.04.2002 | 23.12.2017 | AD 2.5 Civ / Mil |
| CLUJ NAPOCA/Avram Iancu LRCL | 15.06.2002 | 12.11.2017 | AD 2.7 |
| CONSTANȚA/Mihail Kogălniceanu - Constanța LRCK | 10.06.2002 | 20.11.2017 | AD 2.8 Civ / Mil |
| CRAIOVA/Craiova LRCV | 25.04.2002 | 10.06.2017 | AD 2.9 |
| CRAIOVA/Craiova-Sud LRCW | 19.10.2011 | 19.08.2016 | Not published |
| HUNEDOARA/Deva-Săulești LRDV | 13.10.2011 | 01.10.2017 | Not published |
| IAȘI/Iași LRIA | 30.05.2002 | 17.12.2017 | AD 2.10 |
| IAȘI/Iași Sud LRIS | 25.07.2011 | 01.08.2017 | Not published |
| ORADEA/Oradea LROD | 20.08.2002 | 16.03.2017 | AD 2.11 |
| PITEȘTI/Geamăna LRPT | 10.10.2011 | 01.08.2017 | AD 2.23 |
| PLOIEȘTI/Gheorghe Valentin Bibescu - Ploiești LRPW | 26.07.2007 | 01.07.2018 | AD 2.19 |
| SATU MARE/Satu Mare LRSM | 10.07.2002 | 20.07.2017 | AD 2.12 |
| SÂNPETRU/Sânpetru LRSP | 22.02.2010 | 30.05.2018 | AD 2.21 |
| SIBIU/Măgura LRCD | 23.06.2008 | 15.08.2016 | AD 2.18 |
| SIBIU/Sibiu LRSB | 30.07.2002 | 25.09.2017 | AD 2.13 |
| SUCEAVA/Ștefan cel Mare - Suceava LRSV | 01.09.2002 | 10.06.2017 | AD 2.14 |
| TÂRGU-MUREȘ/Mureșeni LRMS | 26.05.2011 | 14.08.2016 | Not published |
| TÂRGU-MUREȘ/Transilvania - Târgu Mureș LRTM | 20.06.2002 | 22.12.2017 | AD 2.15 |
| TIMIȘOARA/Traian Vuia LRTR | 01.10.2003 | 30.05.2017 | AD 2.16 Civ / Mil |

| 1 | 2 | 3 | 4 |
|------------------------------|------------|------------|---------|
| TULCEA/Delta Dunării LRTC | 03.10.2002 | 15.06.2017 | AD 2.17 |
| TUZLA/Tuzla LRTZ | 15.11.2004 | 15.07.2018 | AD 2.20 |
| VATRA DORNEI/Floreni LRFL | 18.12.2012 | 30.09.2013 | AD 2.22 |

| <i>Heliport name Location indicator</i> | <i>Date of initial certification Data certificării inițiale</i> | <i>Certificate validity Valabilitatea certificatului</i> | <i>Remarks Observații</i> |
|---|---|--|-------------------------------|
| 1 | 2 | 3 | 4 |
| BALC/Complex Vânătoare Fagu-Balc LRFB | 07.08.2012 | 30.08.2016 | Not published |
| BRAȘOV/Cobrex LRCX | 02.07.2002 | 30.05.2019 | AD 3.3 |
| BUCUREȘTI/Crystal Tower LRBH | 19.12.2012 | 01.12.2016 | AD 3.4 |
| BUCUREȘTI/West Gate LRWG | 30.06.2014 | 26.07.2016 | Not published |
| GHIMBAV/IAR BRAȘOV LRBG | 17.06.2009 | 25.11.2016 | AD 3.2 |
| MOARA VLĂSIEI/Moara Vlăsiei - Becker LRBK | 03.07.2002 | 01.06.2018 | Not published |
| NĂVODARI/Midia-Constanța LRMC | 11.12.2014 | 08.10.2018 | AD 3.5 |
| OITUZ/PA&CO LRCC | 23.06.2008 | 24.10.2016 | Not published |
| PLOIEȘTI/Aero Taxi LRPH | 02.03.2009 | 01.06.2014 | AD 3.1 |