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**AIRAC  
AIP AMDT**

<b>08 07 AUG 2025</b>
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**AIRAC AIP AMENDMENT 08/25**

**I. Content**

- GEN - sunrise/sunset tables updated.
- ENR - obstacles list published in ENR 5.4 (Area 1) updated.
- AD - LRAR - AD obstacles updated;
  - electronic obstacle data set for Area 2 updated.
- LRBS - noise abatement procedures updated.
- LRIA - AD obstacles updated;
  - electronic obstacle data set for Area 2 updated.
- LRSV - AD obstacles updated;
  - change of STRIP width.
- LRTR - AD regulations updated.
- LRIS - new VFR aerodrome IASI/Iasi-Sud.
- LRMA - heliport regulations updated.

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

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

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AD 2.16-54a	25 FEB 2021	AD 2.21-40	16 MAY 2024	AD 2.29-31a	15 JUN 2023
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AD 2.17-20	03 OCT 2024	AD 2.26-3	11 JUL 2024	AD 2.30-6	02 NOV 2023
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AD 2.17-22	03 OCT 2024	AD 2.26-40	18 APR 2024	AD 2.30-20	02 NOV 2023
AD 2.17-25	03 OCT 2024	AD 2.27-1	21 MAY 2020	AD 2.30-40	02 NOV 2023
AD 2.17-26	03 OCT 2024	AD 2.27-2	21 MAY 2020	AD 2.31-1	30 NOV 2023
AD 2.17-51	17 APR 2025	AD 2.27-3	21 MAY 2020	AD 2.31-2	30 NOV 2023
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## GEN 2.4 LOCATION INDICATORS

The location indicators marked with an asterisk (\*) cannot be used in the address component of AFS messages.

Indicatorii de locație marcați cu un asterisc (\*) nu pot fi folosiți în componenta de adresă a mesajelor AFS.

1. ENCODE	
Location	Indicator
BUCUREȘTI (FIC/ACC/AIS/CAA/COM Centre)	LRBB
BUCUREȘTI/CENTRUL NAȚIONAL DE PROTECȚIE METEOROLOGICĂ A NAVIGAȚIEI AERIENE BUCUREȘTI/NATIONAL CENTRE OF AERONAUTICAL METEOROLOGY	LROM
ARAD / Arad	LRAR
ARAD / Charlie-Bravo Șiria	LRCB*
BACĂU / George Enescu	LRBC
BAIA MARE / Maramureș	LRBM
BISTRIȚA / Bistrița	LRBN*
BOBOC (Mil)	LRBO*
BRAȘOV / Brașov-Ghimbav	LRBV
BRAȘOV / Ghimbav	LRBG*
BRAȘOV / Sânpetru	LRSP*
BUCUREȘTI / Băneasa-Aurel Vlaicu	LRBS
BUCUREȘTI / Henri Coandă	LROP
BUCUREȘTI / Spitalul Universitar de Urgență (SUUB)	LRSU*
CARANSEBEȘ / Banat-Caransebeș	LRCS*
CÂMPIA TURZII (Mil)	LRCT*
CISNĂDIE / Măgura	LRCD*
CLINCENI / Clinceni	LRCN*
CLUJ NAPOCA / Avram Iancu	LRCL
CONSTANȚA / Mihail Kogălniceanu-Constanța	LRCK
CRAIOVA / Craiova	LRCV
Craiova-Sud	LRCW*
DEVA / Săulești - Constantin Manolache	LRDV*
DEZMIR / Dezmir	LRCJ*
Fagu-Balc	LRFB*
FETEȘTI (Mil)	LRFT*
GHEORGHENI / Remetea	LRHR*
GHIMBAV / MIR AERO-Brașov	LRMA*
GRADIȘTEA / Grădiștea	LRBA*
IAȘI / Iași	LRIA
IAȘI / Iași-Sud	LRIS*
MOARA VLĂSIEI / "Moara Vlăsiei"-Becker	LRBK*
Mureșeni	LRMS*
NĂVODARI / Midia-Constanța	LRMC*

2. DECODE	
Indicator	Location
LRBB	BUCUREȘTI (FIC/ACC/AIS/CAA/COM Centre)
LROM	BUCUREȘTI/CENTRUL NAȚIONAL DE PROTECȚIE METEOROLOGICĂ A NAVIGAȚIEI AERIENE BUCUREȘTI/NATIONAL CENTRE OF AERONAUTICAL METEOROLOGY
LRAR	ARAD / Arad
LRBA*	GRĂDIȘTEA / Grădiștea
LRBC	BACĂU / George Enescu
LRBG*	BRAȘOV / Ghimbav
LRBK*	MOARA VLĂSIEI / "Moara Vlăsiei"-Becker
LRBM	BAIA MARE / Maramureș
LRBN*	BISTRIȚA / Bistrița
LRBO*	BOBOC (Mil)
LRBS	BUCUREȘTI / Băneasa-Aurel Vlaicu
LRBV	BRAȘOV / Brașov-Ghimbav
LRCB*	ARAD / Charlie-Bravo Șiria
LRCC*	OITUZ / PA&CO
LRCJ*	DEZMIR / Dezmir
LRCD*	CISNĂDIE / Măgura
LRCH*	Punct de Operare Aeromedicală SMURD Constanța
LRCK	CONSTANȚA / Mihail Kogălniceanu- Constanța
LRCL	CLUJ NAPOCA / Avram Iancu
LRCN*	CLINCENI / Clinceni
LRCS*	CARANSEBEȘ / Banat-Caransebeș
LRCT*	CÂMPIA TURZII (Mil)
LRCV	CRAIOVA / Craiova
LRCW*	Craiova-Sud
LRDD*	OȘORHEI / Dogaru
LRDV*	DEVA / Săulești-Constantin Manolache
LRFB*	Fagu-Balc
LRFT*	FETEȘTI (Mil)
LRHO*	ORADEA / SMURD BH 2
LRHR*	GHEORGHENI / Remetea
LRIA	IAȘI / Iași
LRIS*	IAȘI / Iași-Sud
LRMA*	GHIMBAV / MIR AERO-Brașov
LRMC*	NĂVODARI / Midia-Constanța

1. ENCODE	
<i>Location</i>	<i>Indicator</i>
OITUZ / PA&CO	LRCC*
ORADEA / Oradea	LROD
ORADEA / SMURD BH 2	LRHO*
OȘORHEI / Dogaru	LRDD*
PITEȘTI / Geamăna	LRPT*
PLOIEȘTI / Gheorghe Valentin Bibescu	LRPW*
Punct de Operare Aeromedicală SMURD Constanța	LRCH*
SATU MARE / Satu Mare	LRSM
Sânmihaiu German	LRSG*
SIBIU / Sibiu	LRSB
SUCEAVA / Ștefan cel Mare-Suceava	LRSV
TĂUȚII MĂGHERĂUȘ / Tăuți Măgherăuș	LRMM*
TÂRGU MUREȘ / Transilvania-Târgu Mureș	LRTM
TIMIȘOARA / Traian Vuia	LRTR
TULCEA / Delta Dunării	LRTC
TUZLA / Tuzla	LRTZ
West Gate	LRWG*

2. DECODE	
<i>Indicator</i>	<i>Location</i>
LRMM*	TĂUȚII MĂGHERĂUȘ / Tăuți Măgherăuș
LRMS*	Mureșeni
LROD	ORADEA / Oradea
LROP	BUCUREȘTI / Henri Coandă
LRPT*	PITEȘTI / Geamăna
LRPW*	PLOIEȘTI / Gheorghe Valentin Bibescu
LRSB	SIBIU / Sibiu
LRSG*	Sânmihaiu German
LRSM	SATU MARE / Satu Mare
LRSP*	BRAȘOV / Sânpetru
LRSU*	BUCUREȘTI / Spitalul Universitar de Urgență (SUUB)
LRSV	SUCEAVA / Ștefan cel Mare-Suceava
LRTC	TULCEA / Delta Dunării
LRTM	TÂRGU MUREȘ / Transilvania-Târgu Mureș
LRTR	TIMIȘOARA / Traian Vuia
LRTZ	TUZLA / Tuzla
LRWG*	West Gate

## GEN 2.7 SUNRISE / SUNSET

### RĂSĂRITUL / APUSUL SOARELUI

1. The tables on the following pages have been realized using the mathematical model for astronomical data used in civil aviation created by the Astronomic Institute of the Romanian Academy Bucharest. The tables include 32 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 2025 - JUNE 2026.

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

1. Tabelele din următoarele pagini sunt alcătuite folosind modelul matematic de calcul al datelor astronomice utilizate în aviația civilă realizat de Institutul Astronomic al Academiei Române București. Tabelele includ 32 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 2025 - IUNIE 2026.

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

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BAIA MARE/Maramureș - LRBM	GEN 2.7-3
BISTRIȚA/Bistrița - LRBN	GEN 2.7-4
BRAȘOV/Brașov-Ghimbav - LRBV	GEN 2.7-4
BRAȘOV/Sânpetru - LRSP	GEN 2.7-5
BUCUREȘTI/Băneasa-Aurel Vlaicu - LRBS	GEN 2.7-5
BUCUREȘTI/Henri Coandă - LROP	GEN 2.7-6
CARANSEBEȘ/Banat-Caransebeș - LRCS	GEN 2.7-6
CISNĂDIE/Măgura - LRCD	GEN 2.7-7
CLINCENI/Clinceni - LRCN	GEN 2.7-7
CLUJ NAPOCA/Avram Iancu - LRCL	GEN 2.7-8
CONSTANTA/Mihail Kogălniceanu-Constanța - LRCK	GEN 2.7-8
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DEVA/Săulești-Constantin Manolache - LRDV	GEN 2.7-10
DEZMIR/Dezmir - LRCJ	GEN 2.7-10
GHEORGHENI/Remetea - LRHR	GEN 2.7-11
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GRĂDIȘTEA/Grădiștea - LRBA	GEN 2.7-12
IAȘI/Iași - LRIA	GEN 2.7-13
IAȘI/Iași-Sud - LRIS	GEN 2.7-13
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**3. Sunrise-Sunset tables**  
**Tabele Rasaritului-Apusul Soarelui**

ARAD / Arad - LRAR  
461036N 0211543E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL 1	0209	0245	1832	1908
5	0212	0248	1830	1907
9	0215	0251	1829	1904
13	0219	0254	1826	1902
17	0223	0258	1823	1858
21	0228	0303	1819	1854
25	0233	0307	1815	1849
29	0238	0312	1810	1844

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV 2	0446	0516	1520	1550
6	0451	0521	1515	1545
10	0457	0527	1510	1540
14	0502	0533	1505	1536
18	0507	0538	1501	1532
22	0512	0544	1458	1529
26	0517	0549	1455	1527
30	0522	0554	1453	1525

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR 2	0442	0510	1623	1652
6	0434	0503	1629	1657
10	0427	0455	1634	1703
14	0419	0447	1640	1708
18	0411	0440	1645	1714
22	0404	0432	1651	1719
26	0356	0424	1656	1725
30	0348	0416	1701	1730

AUG 2	0243	0316	1805	1838
6	0249	0321	1800	1832
10	0254	0326	1753	1825
14	0300	0331	1747	1818
18	0305	0336	1740	1811
22	0311	0341	1733	1804
26	0316	0346	1726	1756
30	0322	0351	1719	1748

DEC 4	0526	0558	1451	1523
8	0530	0602	1450	1523
12	0533	0606	1450	1523
16	0536	0609	1451	1524
20	0539	0612	1452	1525
24	0541	0614	1455	1528
28	0542	0615	1457	1530

APR 3	0340	0409	1707	1736
7	0332	0401	1712	1741
11	0324	0354	1717	1747
15	0316	0346	1723	1753
19	0309	0339	1728	1758
23	0302	0332	1733	1804
27	0254	0325	1739	1810

SEP 3	0327	0356	1711	1740
7	0332	0401	1703	1732
11	0338	0406	1656	1724
15	0343	0411	1648	1716
19	0348	0416	1640	1708
23	0353	0421	1632	1700
27	0358	0427	1624	1652

JAN 1	0543	0615	1501	1533
5	0542	0615	1505	1537
9	0542	0614	1509	1541
13	0540	0612	1514	1546
17	0538	0610	1519	1551
21	0536	0607	1525	1556
25	0532	0603	1530	1601
29	0528	0559	1536	1607

MAY 1	0248	0319	1744	1816
5	0241	0313	1749	1821
9	0235	0308	1754	1827
13	0229	0302	1759	1833
17	0224	0258	1804	1838
21	0219	0253	1809	1843
25	0215	0250	1813	1848
29	0211	0247	1817	1853

OCT 1	0403	0432	1616	1645
5	0409	0437	1609	1637
9	0414	0442	1601	1629
13	0419	0448	1554	1622
17	0424	0453	1546	1615
21	0430	0459	1539	1608
25	0435	0504	1533	1602
29	0440	0510	1526	1556

FEB 2	0524	0554	1542	1612
6	0519	0549	1548	1618
10	0514	0543	1554	1624
14	0508	0537	1600	1629
18	0502	0531	1606	1635
22	0455	0524	1612	1640
26	0449	0517	1617	1646

JUN 2	0208	0244	1821	1857
6	0206	0242	1824	1900
10	0204	0241	1827	1903
14	0204	0240	1829	1906
18	0204	0241	1831	1908
22	0204	0241	1832	1909
26	0206	0243	1832	1909
30	0208	0245	1832	1908

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

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL 1	0207	0243	1831	1907
5	0210	0246	1829	1906
9	0213	0249	1828	1904
13	0217	0253	1825	1901
17	0222	0257	1822	1857
21	0226	0301	1818	1853
25	0231	0305	1814	1848
29	0236	0310	1809	1843

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV 2	0445	0514	1519	1549
6	0450	0520	1513	1543
10	0455	0526	1508	1539
14	0501	0532	1504	1534
18	0506	0537	1459	1531
22	0511	0543	1456	1527
26	0516	0548	1453	1525
30	0521	0553	1451	1523

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR 2	0440	0509	1622	1650
6	0433	0501	1627	1656
10	0425	0454	1633	1701
14	0418	0446	1638	1707
18	0410	0438	1644	1712
22	0402	0431	1649	1718
26	0354	0423	1655	1723
30	0346	0415	1700	1729

AUG 2	0242	0315	1804	1837
6	0247	0320	1758	1831
10	0253	0325	1752	1824
14	0258	0330	1746	1817
18	0304	0335	1739	1810
22	0309	0340	1732	1803
26	0315	0345	1725	1755
30	0320	0350	1718	1747

DEC 4	0525	0557	1449	1522
8	0529	0601	1449	1521
12	0532	0605	1449	1521
16	0535	0608	1449	1522
20	0538	0611	1451	1524
24	0540	0613	1453	1526
28	0541	0614	1456	1529

APR 3	0338	0407	1705	1734
7	0330	0400	1711	1740
11	0323	0352	1716	1746
15	0315	0345	1722	1751
19	0307	0338	1727	1757
23	0300	0331	1732	1803
27	0253	0324	1738	1809

SEP 3	0326	0355	1710	1739
7	0331	0400	1702	1731
11	0336	0405	1654	1723
15	0341	0410	1646	1715
19	0347	0415	1639	1707
23	0352	0420	1631	1699
27	0357	0425	1623	1651

JAN 1	0541	0614	1459	1532
5	0541	0614	1503	1536
9	0541	0613	1507	1540
13	0539	0611	1512	1544
17	0537	0609	1517	1549
21	0534	0606	1523	1554
25	0531	0602	1529	1600
29	0527	0558	1534	1605

MAY 1	0246	0318	1743	1815
5	0239	0311	1748	1820
9	0233	0306	1753	1826
13	0227	0301	1758	1832
17	0222	0256	1803	1837
21	0217	0252	1808	1842
25	0213	0248	1812	1847
29	0209	0245	1816	1852

OCT 1	0402	0430	1615	1643
5	0407	0436	1607	1636
9	0412	0441	1600	1628
13	0418	0446	1552	1621
17	0423	0452	1545	1614
21	0428	0457	1538	1607
25	0434	0503	1531	1601
29	0439	0509	1525	1554

FEB 2	0523	0553	1540	1611
6	0518	0548	1546	1616
10	0512	0542	1552	1622
14	0507	0536	1558	1628
18	0501	0530	1604	1633
22	0454	0523	1610	1639
26	0447	0516	1616	1645

JUN 2	0206	0242	1820	1856
6	0204	0240	1823	1859
10	0203	0239	1826	1903
14	0202	0239	1828	1905
18	0202	0239	1830	1907
22	0202	0240	1831	1908
26	0204	0241	1831	1908
30	0206	0243	1831	1908



BACAU / George Enescu - LRBC  
463119N 0265437E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL	1	0144	0221	1810
	5	0147	0224	1809
	9	0151	0227	1807
	13	0155	0231	1805
	17	0159	0234	1802
	21	0204	0239	1758
	25	0209	0243	1754
	29	0214	0248	1749

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV	2	0424	0454	1457
	6	0429	0459	1452
	10	0435	0505	1446
	14	0440	0511	1442
	18	0445	0517	1437
	22	0450	0522	1434
	26	0455	0527	1431
	30	0500	0532	1429

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR	2	0419	0448	1600
	6	0412	0440	1606
	10	0404	0433	1612
	14	0356	0425	1617
	18	0349	0417	1623
	22	0341	0409	1628
	26	0333	0401	1634
	30	0325	0354	1639

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG	2	0220	0253	1744
	6	0225	0258	1738
	10	0231	0303	1732
	14	0236	0308	1725
	18	0242	0313	1719
	22	0247	0318	1711
	26	0253	0323	1704
	30	0258	0328	1657

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC	4	0504	0537	1427
	8	0508	0541	1426
	12	0512	0545	1426
	16	0515	0548	1427
	20	0517	0550	1429
	24	0519	0552	1431
	28	0520	0553	1433

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR	3	0317	0346	1644
	7	0309	0338	1650
	11	0301	0331	1655
	15	0253	0323	1701
	19	0245	0316	1706
	23	0238	0309	1712
	27	0231	0302	1717

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP	3	0304	0333	1649
	7	0309	0338	1641
	11	0315	0343	1633
	15	0320	0349	1625
	19	0325	0354	1617
	23	0330	0359	1609
	27	0336	0404	1602

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN	1	0521	0554	1437
	5	0521	0554	1441
	9	0520	0553	1445
	13	0519	0551	1450
	17	0517	0548	1455
	21	0514	0545	1501
	25	0510	0542	1507
	29	0507	0537	1513

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY	1	0224	0256	1722
	5	0217	0250	1728
	9	0211	0244	1733
	13	0205	0239	1738
	17	0200	0234	1743
	21	0155	0230	1747
	25	0151	0226	1752
	29	0147	0223	1756

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT	1	0341	0409	1554
	5	0346	0415	1546
	9	0351	0420	1538
	13	0357	0425	1531
	17	0402	0431	1523
	21	0407	0437	1516
	25	0413	0442	1510
	29	0418	0448	1503

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB	2	0502	0532	1519
	6	0457	0527	1525
	10	0452	0521	1531
	14	0446	0515	1537
	18	0440	0509	1543
	22	0433	0502	1549
	26	0426	0455	1554

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUN	2	0144	0220	1800
	6	0142	0218	1803
	10	0140	0217	1806
	14	0139	0216	1808
	18	0139	0216	1810
	22	0140	0217	1811
	26	0141	0219	1811
	30	0143	0221	1811

BAIA MARE / Maramures - LRBM  
473930N 0232758E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL	1	0152	0230	1829
	5	0155	0233	1828
	9	0158	0236	1826
	13	0203	0240	1823
	17	0207	0244	1820
	21	0212	0248	1816
	25	0218	0253	1811
	29	0223	0258	1806

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV	2	0439	0510	1508
	6	0445	0516	1502
	10	0451	0522	1457
	14	0456	0528	1452
	18	0502	0534	1448
	22	0507	0540	1444
	26	0512	0545	1441
	30	0517	0550	1438

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR	2	0433	0503	1613
	6	0426	0455	1619
	10	0418	0447	1625
	14	0410	0439	1631
	18	0402	0431	1636
	22	0354	0423	1642
	26	0345	0415	1648
	30	0337	0407	1654

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG	2	0229	0303	1801
	6	0235	0308	1755
	10	0241	0313	1749
	14	0246	0319	1742
	18	0252	0324	1735
	22	0258	0330	1727
	26	0304	0335	1720
	30	0310	0340	1712

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC	4	0521	0555	1437
	8	0526	0559	1436
	12	0529	0603	1436
	16	0532	0606	1436
	20	0535	0609	1438
	24	0537	0611	1440
	28	0538	0612	1443

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR	3	0329	0358	1659
	7	0320	0351	1705
	11	0312	0343	1711
	15	0304	0335	1716
	19	0256	0327	1722
	23	0249	0320	1728
	27	0241	0313	1733

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP	3	0315	0346	1704
	7	0321	0351	1656
	11	0327	0356	1648
	15	0332	0402	1640
	19	0338	0407	1632
	23	0343	0413	1623
	27	0349	0418	1615

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN	1	0538	0612	1446
	5	0538	0612	1450
	9	0537	0611	1455
	13	0536	0609	1500
	17	0533	0606	1505
	21	0530	0603	1511
	25	0527	0559	1517
	29	0523	0554	1523

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY	1	0234	0307	1739
	5	0227	0300	1745
	9	0220	0254	1750
	13	0214	0249	1755
	17	0208	0244	1800
	21	0203	0239	1805
	25	0159	0235	1810
	29	0155	0232	1814

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT	1	0354	0424	1607
	5	0400	0429	1559
	9	0405	0435	1551
	13	0411	0440	1543
	17	0417	0446	1536
	21	0422	0452	1528
	25	0428	0458	1521
	29	0434	0504	1515

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB	2	0518	0549	1529
	6	0513	0544	1536
	10	0507	0538	1542
	14	0501	0531	1548
	18	0455	0525	1555
	22	0448	0517	1601
	26	0441	0510	1607

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUN	2	0152	0229	1818
	6	0149	0227	1822
	10	0147	0226	1824
	14	0147	0225	1827
	18	0146	0225	1828
	22	0147	0226	1829
	26	0149	0227	1830
	30	0151	0229	1829



BISTRITA / Bistrita - LRBN  
470930N 0243306E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL 1	0150	0228	1823	1900
5	0153	0231	1821	1859
9	0157	0234	1819	1856
13	0201	0237	1817	1853
17	0205	0241	1814	1850
21	0210	0246	1810	1845
25	0216	0250	1805	1840
29	0221	0255	1800	1835

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV 2	0434	0505	1505	1536
6	0440	0510	1459	1530
10	0445	0516	1454	1525
14	0451	0522	1449	1521
18	0456	0528	1445	1517
22	0501	0534	1441	1513
26	0506	0539	1438	1511
30	0511	0544	1436	1509

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR 2	0429	0458	1609	1638
6	0421	0450	1615	1644
10	0414	0442	1621	1650
14	0406	0435	1626	1655
18	0358	0427	1632	1701
22	0350	0419	1638	1707
26	0342	0411	1643	1712
30	0333	0403	1649	1718

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG 2	0227	0300	1755	1829
6	0232	0305	1749	1822
10	0238	0310	1743	1815
14	0244	0316	1736	1808
18	0249	0321	1729	1801
22	0255	0326	1722	1753
26	0301	0331	1715	1745
30	0307	0337	1707	1737

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC 4	0516	0549	1434	1507
8	0520	0553	1433	1507
12	0523	0557	1433	1507
16	0526	0600	1434	1508
20	0529	0602	1435	1509
24	0531	0604	1438	1511
28	0532	0605	1440	1514

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR 3	0325	0355	1655	1724
7	0317	0347	1700	1730
11	0309	0339	1706	1736
15	0301	0331	1711	1742
19	0253	0324	1717	1748
23	0246	0317	1722	1754
27	0238	0310	1728	1800

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP 3	0312	0342	1659	1729
7	0318	0347	1651	1721
11	0323	0352	1643	1713
15	0329	0358	1635	1704
19	0334	0403	1627	1656
23	0339	0408	1619	1648
27	0345	0414	1611	1640

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN 1	0532	0606	1444	1517
5	0532	0605	1448	1521
9	0531	0604	1452	1525
13	0530	0602	1457	1530
17	0528	0600	1503	1535
21	0525	0557	1508	1540
25	0521	0553	1514	1546
29	0517	0549	1520	1551

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY 1	0231	0303	1733	1806
5	0224	0257	1739	1812
9	0218	0251	1744	1818
13	0212	0246	1749	1823
17	0206	0241	1754	1829
21	0201	0237	1759	1834
25	0157	0233	1804	1840
29	0153	0230	1808	1844

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT 1	0350	0419	1603	1632
5	0356	0424	1555	1624
9	0401	0430	1547	1616
13	0406	0436	1539	1609
17	0412	0441	1532	1601
21	0417	0447	1525	1554
25	0423	0453	1518	1548
29	0429	0459	1511	1541

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB 2	0513	0544	1526	1557
6	0508	0538	1533	1603
10	0502	0532	1539	1609
14	0456	0526	1545	1615
18	0450	0519	1551	1621
22	0443	0512	1557	1626
26	0436	0505	1603	1632

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUN 2	0150	0227	1812	1849
6	0148	0225	1815	1852
10	0146	0224	1818	1856
14	0145	0223	1820	1858
18	0145	0223	1822	1900
22	0146	0224	1823	1901
26	0147	0225	1823	1901
30	0149	0227	1823	1901

BRASOV / Brasov-Ghimbav - LRBV  
454222N 0253124E

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

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV 2	0428	0457	1504	1534
6	0433	0503	1459	1529
10	0439	0509	1454	1524
14	0444	0514	1449	1520
18	0449	0520	1445	1516
22	0454	0525	1442	1513
26	0459	0530	1439	1511
30	0503	0535	1437	1509

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR 2	0424	0453	1607	1635
6	0417	0445	1612	1640
10	0410	0438	1618	1646
14	0402	0430	1623	1651
18	0355	0423	1628	1656
22	0347	0415	1634	1702
26	0339	0407	1639	1707
30	0331	0400	1644	1713

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG 2	0228	0301	1747	1819
6	0234	0305	1741	1813
10	0239	0310	1735	1807
14	0244	0315	1729	1800
18	0250	0320	1722	1753
22	0255	0325	1715	1746
26	0300	0330	1708	1738
30	0306	0335	1701	1730

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC 4	0508	0540	1436	1508
8	0511	0544	1435	1507
12	0515	0547	1435	1507
16	0518	0550	1436	1508
20	0520	0553	1437	1510
24	0522	0555	1439	1512
28	0523	0556	1442	1515

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR 3	0323	0352	1649	1718
7	0316	0345	1655	1723
11	0308	0337	1700	1729
15	0300	0330	1705	1735
19	0253	0323	1710	1740
23	0246	0316	1715	1746
27	0239	0310	1721	1751

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP 3	0311	0340	1654	1723
7	0316	0345	1646	1715
11	0321	0350	1638	1707
15	0326	0355	1631	1659
19	0331	0400	1623	1651
23	0336	0404	1615	1643
27	0341	0409	1607	1635

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN 1	0524	0556	1445	1518
5	0524	0556	1449	1522
9	0523	0555	1454	1526
13	0522	0554	1459	1530
17	0520	0551	1504	1535
21	0517	0548	1509	1540
25	0514	0545	1515	1545
29	0510	0541	1520	1551

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY 1	0232	0303	1726	1757
5	0226	0257	1731	1803
9	0220	0252	1736	1808
13	0214	0247	1741	1814
17	0209	0242	1746	1819
21	0204	0238	1750	1824
25	0200	0234	1754	1829
29	0156	0231	1758	1833

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT 1	0346	0415	1559	1628
5	0352	0420	1552	1620
9	0357	0425	1544	1613
13	0402	0430	1537	1605
17	0407	0435	1530	1559
21	0412	0441	1523	1552
25	0417	0446	1517	1546
29	0423	0452	1510	1540

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB 2	0506	0536	1526	1556
6	0501	0531	1532	1602
10	0456	0525	1538	1607
14	0450	0519	1544	1613
18	0444	0513	1550	1618
22	0438	0506	1555	1624
26	0431	0500	1601	1629

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUN 2	0154	0229	1802	1837
6	0151	0227	1805	1841
10	0150	0226	1808	1844
14	0149	0225	1810	1846
18	0149	0226	1812	1848
22	0150	0226	1813	1849
26	0151	0228	1813	1849
30	0153	0229	1813	1849



BRASOV / Sanpetru - LRSP  
454316N 0253801E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL 1	0154	0230	1812	1848
5	0156	0232	1811	1847
9	0200	0235	1809	1845
13	0204	0239	1807	1842
17	0208	0243	1804	1838
21	0213	0247	1800	1834
25	0217	0251	1756	1830
29	0222	0255	1751	1824

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV 2	0428	0457	1504	1533
6	0433	0503	1459	1528
10	0438	0508	1453	1524
14	0443	0514	1449	1519
18	0449	0519	1445	1516
22	0454	0525	1442	1513
26	0458	0530	1439	1510
30	0503	0535	1437	1508

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR 2	0424	0452	1606	1634
6	0417	0445	1612	1640
10	0409	0437	1617	1645
14	0402	0430	1622	1651
18	0354	0422	1628	1656
22	0346	0415	1633	1701
26	0339	0407	1638	1707
30	0331	0359	1644	1712

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG 2	0228	0300	1746	1819
6	0233	0305	1741	1813
10	0238	0310	1735	1806
14	0244	0315	1729	1759
18	0249	0320	1722	1752
22	0255	0325	1715	1745
26	0300	0330	1708	1738
30	0305	0334	1701	1730

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC 4	0507	0539	1435	1507
8	0511	0543	1435	1507
12	0515	0547	1435	1507
16	0518	0550	1435	1508
20	0520	0553	1437	1509
24	0522	0554	1439	1511
28	0523	0556	1442	1514

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR 3	0323	0352	1649	1718
7	0315	0344	1654	1723
11	0308	0337	1659	1729
15	0300	0329	1705	1734
19	0253	0322	1710	1740
23	0245	0316	1715	1745
27	0238	0309	1720	1751

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP 3	0310	0339	1653	1722
7	0316	0344	1646	1714
11	0321	0349	1638	1706
15	0326	0354	1630	1658
19	0331	0359	1622	1651
23	0336	0404	1614	1643
27	0341	0409	1607	1635

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN 1	0524	0556	1445	1517
5	0524	0556	1449	1521
9	0523	0555	1453	1525
13	0522	0553	1458	1530
17	0520	0551	1503	1534
21	0517	0548	1509	1540
25	0514	0544	1514	1545
29	0510	0540	1520	1550

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY 1	0232	0303	1725	1757
5	0225	0257	1730	1802
9	0219	0251	1735	1808
13	0213	0246	1740	1813
17	0208	0242	1745	1819
21	0204	0237	1750	1824
25	0159	0234	1754	1828
29	0156	0231	1758	1833

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT 1	0346	0414	1559	1627
5	0351	0419	1551	1620
9	0356	0424	1544	1612
13	0401	0430	1537	1605
17	0406	0435	1530	1558
21	0412	0440	1523	1551
25	0417	0446	1516	1545
29	0422	0451	1510	1539

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB 2	0506	0536	1526	1556
6	0501	0530	1532	1601
10	0456	0525	1537	1607
14	0450	0519	1543	1612
18	0444	0513	1549	1618
22	0437	0506	1555	1623
26	0431	0459	1600	1629

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUN 2	0153	0228	1802	1837
6	0151	0227	1805	1840
10	0149	0225	1807	1843
14	0149	0225	1810	1846
18	0149	0225	1811	1848
22	0149	0226	1812	1849
26	0151	0227	1813	1849
30	0153	0229	1812	1849

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

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL 1	0158	0233	1805	1840
5	0201	0235	1804	1839
9	0204	0238	1803	1837
13	0207	0241	1800	1834
17	0212	0245	1758	1831
21	0216	0249	1754	1827
25	0220	0253	1750	1823
29	0225	0257	1746	1818

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV 2	0424	0453	1505	1533
6	0429	0458	1459	1529
10	0434	0503	1455	1524
14	0439	0509	1450	1520
18	0444	0514	1447	1517
22	0449	0519	1443	1514
26	0453	0524	1441	1511
30	0458	0529	1439	1510

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR 2	0421	0449	1605	1633
6	0415	0442	1611	1638
10	0407	0435	1616	1643
14	0400	0428	1621	1648
18	0353	0420	1626	1653
22	0345	0413	1631	1659
26	0338	0406	1636	1704
30	0330	0358	1641	1709

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG 2	0230	0302	1741	1813
6	0235	0306	1736	1807
10	0240	0311	1730	1801
14	0245	0316	1724	1754
18	0251	0320	1718	1747
22	0256	0325	1711	1740
26	0301	0330	1704	1733
30	0306	0334	1657	1726

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC 4	0502	0533	1438	1509
8	0506	0537	1437	1508
12	0509	0541	1437	1509
16	0512	0544	1438	1509
20	0514	0546	1439	1511
24	0516	0548	1441	1513
28	0518	0549	1444	1516

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR 3	0323	0351	1646	1714
7	0315	0344	1651	1719
11	0308	0336	1656	1724
15	0301	0329	1701	1730
19	0254	0323	1706	1735
23	0247	0316	1711	1740
27	0240	0310	1716	1746

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP 3	0311	0339	1650	1718
7	0315	0344	1643	1711
11	0320	0348	1635	1703
15	0325	0353	1628	1655
19	0330	0358	1620	1648
23	0335	0402	1613	1640
27	0339	0407	1605	1633

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN 1	0518	0550	1447	1519
5	0518	0550	1451	1523
9	0518	0549	1455	1527
13	0517	0547	1500	1531
17	0515	0545	1505	1536
21	0512	0542	1510	1540
25	0509	0539	1516	1546
29	0506	0535	1521	1551

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY 1	0233	0304	1721	1751
5	0227	0258	1725	1756
9	0221	0253	1730	1802
13	0216	0248	1735	1807
17	0211	0244	1739	1812
21	0207	0240	1744	1817
25	0203	0236	1748	1821
29	0200	0233	1752	1825

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT 1	0344	0412	1558	1625
5	0349	0417	1550	1618
9	0354	0422	1543	1611
13	0359	0427	1536	1604
17	0404	0432	1529	1557
21	0409	0437	1523	1551
25	0414	0442	1516	1545
29	0419	0447	1510	1539

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB 2	0502	0531	1527	1556
6	0457	0526	1532	1601
10	0452	0521	1538	1607
14	0447	0515	1544	1612
18	0441	0509	1549	1617
22	0435	0503	1555	1622
26	0428	0456	1600	1628

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUN 2	0157	0231	1755	1829
6	0155	0229	1758	1833
10	0154	0228	1801	1836
14	0153	0228	1803	1838
18	0153	0228	1804	1839
22	0154	0229	1805	1841
26	0155	0230	1806	1841
30	0157	0232	1806	1840



BUCURESTI / Henri Coanda - LROP  
443416N 0260506E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL 1	0158	0232	1806	1841
5	0200	0235	1805	1839
9	0204	0238	1803	1837
13	0207	0241	1801	1835
17	0211	0245	1758	1831
21	0216	0249	1755	1828
25	0220	0253	1751	1823
29	0225	0257	1746	1818

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV 2	0424	0453	1505	1533
6	0429	0458	1459	1528
10	0434	0504	1455	1524
14	0439	0509	1450	1520
18	0444	0514	1446	1517
22	0449	0519	1443	1514
26	0454	0524	1441	1511
30	0458	0529	1439	1510

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR 2	0422	0449	1605	1633
6	0415	0442	1611	1638
10	0408	0435	1616	1643
14	0400	0428	1621	1648
18	0353	0420	1626	1654
22	0345	0413	1631	1659
26	0338	0406	1636	1704
30	0330	0358	1641	1709

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG 2	0230	0302	1741	1813
6	0235	0306	1736	1807
10	0240	0311	1730	1801
14	0245	0315	1724	1754
18	0250	0320	1718	1748
22	0256	0325	1711	1741
26	0301	0330	1704	1733
30	0306	0334	1657	1726

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC 4	0502	0533	1437	1509
8	0506	0537	1437	1508
12	0509	0541	1437	1508
16	0512	0544	1438	1509
20	0515	0546	1439	1511
24	0517	0548	1441	1513
28	0518	0550	1444	1516

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR 3	0323	0351	1646	1714
7	0315	0344	1651	1719
11	0308	0336	1656	1725
15	0301	0329	1701	1730
19	0253	0323	1706	1735
23	0246	0316	1711	1741
27	0240	0310	1716	1746

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP 3	0311	0339	1650	1718
7	0315	0344	1643	1711
11	0320	0348	1635	1703
15	0325	0353	1628	1655
19	0330	0358	1620	1648
23	0335	0402	1613	1640
27	0340	0407	1605	1633

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN 1	0519	0550	1447	1519
5	0519	0550	1451	1522
9	0518	0549	1455	1526
13	0517	0548	1500	1531
17	0515	0546	1505	1535
21	0512	0543	1510	1540
25	0509	0539	1516	1545
29	0506	0535	1521	1551

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY 1	0233	0304	1721	1751
5	0227	0258	1726	1757
9	0221	0253	1730	1802
13	0216	0248	1735	1807
17	0211	0243	1740	1812
21	0207	0240	1744	1817
25	0203	0236	1748	1822
29	0159	0233	1752	1826

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT 1	0344	0412	1558	1625
5	0349	0417	1550	1618
9	0354	0422	1543	1611
13	0359	0427	1536	1604
17	0404	0432	1529	1557
21	0409	0437	1523	1551
25	0414	0442	1516	1545
29	0419	0447	1510	1539

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB 2	0502	0531	1527	1556
6	0457	0526	1532	1601
10	0452	0521	1538	1607
14	0447	0515	1543	1612
18	0441	0509	1549	1617
22	0435	0503	1555	1623
26	0428	0456	1600	1628

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUN 2	0157	0231	1755	1830
6	0155	0229	1758	1833
10	0153	0228	1801	1836
14	0153	0228	1803	1838
18	0153	0228	1805	1840
22	0153	0229	1806	1841
26	0155	0230	1806	1841
30	0157	0232	1806	1841

CARANSEBES / Banat-Caransebes - LRCS  
452513N 0221508E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL 1	0209	0244	1824	1900
5	0211	0247	1823	1859
9	0215	0250	1822	1857
13	0219	0253	1819	1854
17	0223	0257	1816	1851
21	0227	0301	1813	1847
25	0232	0305	1809	1842
29	0237	0310	1804	1837

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV 2	0441	0510	1518	1547
6	0446	0516	1513	1542
10	0451	0521	1508	1538
14	0456	0527	1503	1534
18	0501	0532	1459	1530
22	0506	0537	1456	1527
26	0511	0542	1453	1525
30	0516	0547	1451	1523

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR 2	0437	0505	1620	1648
6	0430	0458	1625	1653
10	0423	0451	1631	1659
14	0415	0443	1636	1704
18	0408	0436	1641	1709
22	0400	0428	1647	1715
26	0352	0421	1652	1720
30	0345	0413	1657	1725

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG 2	0242	0315	1759	1831
6	0248	0319	1753	1825
10	0253	0324	1748	1819
14	0258	0329	1741	1812
18	0304	0334	1735	1805
22	0309	0339	1728	1758
26	0314	0344	1721	1750
30	0319	0348	1714	1743

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC 4	0520	0552	1450	1522
8	0524	0556	1449	1521
12	0527	0559	1449	1521
16	0530	0602	1450	1522
20	0533	0605	1451	1524
24	0534	0607	1453	1526
28	0536	0608	1456	1529

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR 3	0337	0405	1702	1731
7	0329	0358	1707	1736
11	0322	0351	1712	1741
15	0314	0343	1718	1747
19	0307	0336	1723	1753
23	0300	0330	1728	1758
27	0253	0323	1733	1804

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP 3	0324	0353	1706	1735
7	0330	0358	1659	1727
11	0335	0403	1651	1720
15	0340	0408	1643	1712
19	0345	0413	1636	1704
23	0350	0418	1628	1656
27	0355	0423	1620	1648

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN 1	0536	0608	1500	1532
5	0536	0608	1503	1535
9	0536	0607	1508	1540
13	0534	0606	1513	1544
17	0532	0603	1518	1549
21	0530	0601	1523	1554
25	0527	0557	1529	1559
29	0523	0553	1534	1604

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY 1	0246	0317	1738	1809
5	0240	0311	1743	1815
9	0234	0306	1748	1820
13	0228	0301	1753	1826
17	0223	0256	1758	1831
21	0218	0252	1802	1836
25	0214	0248	1806	1841
29	0211	0245	1810	1845

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT 1	0400	0428	1613	1641
5	0405	0433	1605	1633
9	0410	0438	1558	1626
13	0415	0443	1550	1619
17	0420	0448	1543	1612
21	0425	0454	1537	1605
25	0430	0459	1530	1559
29	0435	0504	1524	1553

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB 2	0519	0548	1540	1610
6	0514	0543	1546	1615
10	0509	0538	1552	1621
14	0503	0532	1557	1626
18	0457	0526	1603	1632
22	0451	0519	1609	1637
26	0444	0512	1614	1643

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUN 2	0208	0243	1814	1849
6	0206	0241	1817	1853
10	0204	0240	1820	1855
14	0204	0240	1822	1858
18	0204	0240	1824	1900
22	0204	0241	1825	1901
26	0206	0242	1825	1901
30	0208	0244	1825	1901



CISNADIE / Magura - LRCD  
454414N 0240955E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL	1	0159	0235	1818
	5	0202	0238	1817
	9	0206	0241	1815
	13	0209	0245	1813
	17	0214	0248	1810
	21	0218	0252	1806
	25	0223	0257	1802
	29	0228	0301	1757

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV	2	0433	0503	1510
	6	0439	0509	1504
	10	0444	0514	1459
	14	0449	0520	1455
	18	0454	0525	1451
	22	0459	0531	1447
	26	0504	0536	1445
	30	0509	0541	1442

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR	2	0430	0458	1612
	6	0423	0451	1617
	10	0415	0443	1623
	14	0408	0436	1628
	18	0400	0428	1634
	22	0352	0420	1639
	26	0344	0413	1644
	30	0337	0405	1650

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG	2	0234	0306	1752
	6	0239	0311	1747
	10	0244	0316	1741
	14	0250	0321	1734
	18	0255	0325	1728
	22	0300	0330	1721
	26	0306	0335	1714
	30	0311	0340	1707

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC	4	0513	0545	1441
	8	0517	0549	1440
	12	0520	0553	1440
	16	0523	0556	1441
	20	0526	0558	1443
	24	0528	0600	1445
	28	0529	0601	1447

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR	3	0329	0357	1655
	7	0321	0350	1700
	11	0313	0343	1705
	15	0306	0335	1710
	19	0258	0328	1716
	23	0251	0321	1721
	27	0244	0315	1726

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP	3	0316	0345	1659
	7	0321	0350	1651
	11	0327	0355	1644
	15	0332	0400	1636
	19	0337	0405	1628
	23	0342	0410	1620
	27	0347	0415	1613

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN	1	0530	0602	1451
	5	0530	0602	1455
	9	0529	0601	1459
	13	0528	0559	1504
	17	0525	0557	1509
	21	0523	0554	1514
	25	0520	0550	1520
	29	0516	0546	1526

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY	1	0237	0309	1731
	5	0231	0303	1736
	9	0225	0257	1741
	13	0219	0252	1746
	17	0214	0247	1751
	21	0209	0243	1756
	25	0205	0240	1800
	29	0202	0237	1804

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT	1	0352	0420	1605
	5	0357	0425	1557
	9	0402	0430	1550
	13	0407	0436	1543
	17	0412	0441	1535
	21	0418	0446	1529
	25	0423	0452	1522
	29	0428	0457	1516

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB	2	0512	0542	1532
	6	0507	0536	1537
	10	0501	0531	1543
	14	0456	0525	1549
	18	0450	0519	1555
	22	0443	0512	1601
	26	0437	0505	1606

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUN	2	0159	0234	1807
	6	0157	0232	1811
	10	0155	0231	1813
	14	0154	0231	1816
	18	0154	0231	1817
	22	0155	0232	1818
	26	0157	0233	1819
	30	0159	0235	1818

CLINCENI / Clinceni - LRCN  
442130N 0255550E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL	1	0159	0234	1806
	5	0202	0236	1805
	9	0205	0239	1803
	13	0209	0243	1801
	17	0213	0246	1758
	21	0217	0250	1754
	25	0222	0254	1751
	29	0227	0258	1746

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV	2	0424	0453	1506
	6	0429	0458	1500
	10	0434	0504	1456
	14	0439	0509	1451
	18	0444	0514	1448
	22	0449	0519	1444
	26	0454	0524	1442
	30	0458	0529	1440

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR	2	0422	0450	1606
	6	0415	0443	1611
	10	0408	0436	1616
	14	0401	0428	1622
	18	0354	0421	1627
	22	0346	0414	1632
	26	0339	0406	1637
	30	0331	0359	1642

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG	2	0231	0303	1741
	6	0236	0307	1736
	10	0241	0312	1730
	14	0247	0317	1724
	18	0252	0321	1718
	22	0257	0326	1711
	26	0302	0330	1705
	30	0307	0335	1658

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC	4	0502	0533	1439
	8	0506	0537	1438
	12	0509	0541	1438
	16	0512	0544	1439
	20	0515	0546	1441
	24	0517	0548	1443
	28	0518	0549	1445

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR	3	0324	0352	1646
	7	0316	0344	1651
	11	0309	0337	1656
	15	0302	0330	1701
	19	0255	0324	1706
	23	0248	0317	1711
	27	0241	0311	1716

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP	3	0311	0340	1650
	7	0316	0344	1643
	11	0321	0349	1636
	15	0326	0354	1628
	19	0331	0358	1621
	23	0335	0403	1613
	27	0340	0408	1606

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN	1	0519	0550	1449
	5	0519	0550	1452
	9	0518	0549	1457
	13	0517	0548	1501
	17	0515	0545	1506
	21	0513	0543	1511
	25	0510	0539	1517
	29	0506	0536	1522

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY	1	0235	0305	1721
	5	0228	0259	1726
	9	0223	0254	1730
	13	0217	0249	1735
	17	0212	0245	1740
	21	0208	0241	1744
	25	0204	0237	1748
	29	0201	0235	1752

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT	1	0345	0412	1558
	5	0350	0417	1551
	9	0355	0422	1544
	13	0359	0427	1537
	17	0404	0432	1530
	21	0409	0437	1523
	25	0414	0442	1517
	29	0419	0448	1511

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB	2	0502	0531	1528
	6	0457	0526	1533
	10	0452	0521	1539
	14	0447	0515	1544
	18	0441	0509	1550
	22	0435	0503	1555
	26	0429	0456	1601

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUN	2	0158	0232	1755
	6	0156	0231	1758
	10	0155	0230	1801
	14	0154	0229	1803
	18	0154	0229	1805
	22	0155	0230	1806
	26	0156	0231	1806
	30	0158	0233	1806



CLUJ NAPOCA / Avram Iancu - LRCL  
464721N 0234132E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL 1	0156	0233	1824	1902
5	0159	0236	1823	1900
9	0202	0239	1821	1858
13	0206	0242	1819	1855
17	0211	0246	1816	1851
21	0215	0251	1812	1847
25	0221	0255	1807	1842
29	0226	0300	1803	1837

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV 2	0437	0507	1509	1540
6	0443	0513	1504	1534
10	0448	0519	1458	1529
14	0453	0525	1454	1525
18	0459	0530	1450	1521
22	0504	0536	1446	1518
26	0509	0541	1443	1515
30	0514	0546	1441	1513

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR 2	0432	0501	1613	1642
6	0425	0453	1619	1647
10	0417	0446	1624	1653
14	0409	0438	1630	1659
18	0401	0430	1636	1704
22	0353	0422	1641	1710
26	0345	0414	1647	1715
30	0337	0406	1652	1721

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG 2	0231	0305	1757	1831
6	0237	0310	1752	1824
10	0243	0315	1745	1818
14	0248	0320	1739	1810
18	0254	0325	1732	1803
22	0300	0330	1725	1756
26	0305	0335	1717	1748
30	0311	0341	1710	1740

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC 4	0518	0551	1439	1512
8	0522	0555	1438	1511
12	0526	0559	1438	1512
16	0529	0602	1439	1512
20	0531	0604	1440	1514
24	0533	0606	1442	1516
28	0534	0607	1445	1519

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR 3	0329	0358	1658	1727
7	0321	0351	1703	1733
11	0313	0343	1709	1738
15	0305	0336	1714	1744
19	0258	0328	1720	1750
23	0250	0321	1725	1756
27	0243	0314	1730	1802

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP 3	0316	0346	1702	1732
7	0322	0351	1654	1724
11	0327	0356	1646	1716
15	0332	0401	1638	1707
19	0338	0407	1630	1659
23	0343	0412	1622	1651
27	0348	0417	1614	1643

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN 1	0535	0608	1449	1522
5	0535	0607	1453	1526
9	0534	0606	1457	1530
13	0532	0605	1502	1535
17	0530	0602	1507	1540
21	0527	0559	1513	1545
25	0524	0555	1519	1550
29	0520	0551	1525	1556

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY 1	0236	0308	1736	1808
5	0229	0302	1741	1814
9	0223	0256	1746	1820
13	0217	0251	1752	1825
17	0211	0246	1756	1831
21	0206	0241	1801	1836
25	0202	0238	1806	1841
29	0158	0234	1810	1846

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT 1	0354	0422	1606	1635
5	0359	0428	1559	1627
9	0404	0433	1551	1620
13	0410	0439	1543	1612
17	0415	0444	1536	1605
21	0421	0450	1529	1558
25	0426	0456	1522	1552
29	0432	0501	1516	1545

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB 2	0515	0546	1531	1601
6	0510	0541	1537	1607
10	0505	0535	1543	1613
14	0459	0529	1549	1619
18	0453	0522	1555	1624
22	0446	0515	1601	1630
26	0439	0508	1607	1636

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUN 2	0155	0232	1814	1850
6	0153	0230	1817	1854
10	0151	0229	1820	1857
14	0151	0228	1822	1859
18	0151	0228	1824	1901
22	0151	0229	1825	1902
26	0153	0230	1825	1903
30	0155	0232	1825	1902

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

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL 1	0149	0224	1755	1830
5	0152	0226	1754	1829
9	0155	0229	1753	1827
13	0159	0232	1750	1824
17	0203	0236	1748	1821
21	0207	0240	1744	1817
25	0211	0244	1740	1813
29	0216	0248	1736	1808

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV 2	0414	0443	1455	1524
6	0419	0448	1450	1519
10	0424	0454	1445	1515
14	0429	0459	1441	1511
18	0434	0504	1437	1507
22	0439	0509	1434	1505
26	0444	0514	1432	1502
30	0448	0519	1430	1501

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR 2	0412	0439	1556	1623
6	0405	0433	1601	1629
10	0358	0425	1606	1634
14	0351	0418	1611	1639
18	0343	0411	1616	1644
22	0336	0403	1621	1649
26	0328	0356	1626	1654
30	0321	0349	1631	1659

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG 2	0221	0253	1731	1802
6	0226	0257	1726	1757
10	0231	0302	1720	1751
14	0236	0306	1714	1744
18	0241	0311	1708	1737
22	0246	0316	1701	1730
26	0251	0320	1654	1723
30	0256	0325	1647	1716

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC 4	0452	0523	1428	1500
8	0456	0527	1428	1459
12	0459	0531	1428	1459
16	0502	0534	1429	1500
20	0505	0536	1430	1502
24	0506	0538	1432	1504
28	0508	0539	1435	1507

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR 3	0313	0341	1636	1704
7	0306	0334	1641	1709
11	0259	0327	1646	1715
15	0251	0320	1651	1720
19	0244	0313	1656	1725
23	0237	0307	1701	1730
27	0231	0301	1706	1736

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP 3	0301	0330	1640	1708
7	0306	0334	1633	1701
11	0311	0339	1625	1653
15	0316	0343	1618	1646
19	0320	0348	1610	1638
23	0325	0353	1603	1630
27	0330	0357	1556	1623

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN 1	0508	0540	1438	1510
5	0508	0540	1442	1513
9	0508	0539	1446	1517
13	0507	0537	1451	1522
17	0505	0535	1456	1526
21	0502	0533	1501	1531
25	0459	0529	1506	1536
29	0456	0525	1512	1541

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY 1	0224	0255	1711	1741
5	0218	0249	1716	1746
9	0212	0244	1720	1752
13	0207	0239	1725	1757
17	0202	0235	1729	1802
21	0158	0231	1734	1806
25	0154	0227	1738	1811
29	0151	0224	1742	1815

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT 1	0335	0402	1548	1616
5	0340	0407	1541	1608
9	0344	0412	1534	1601
13	0349	0417	1527	1554
17	0354	0422	1520	1548
21	0359	0427	1513	1541
25	0404	0432	1507	1535
29	0409	0437	1501	1529

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB 2	0452	0521	1517	1547
6	0447	0516	1523	1552
10	0442	0511	1529	1557
14	0437	0505	1534	1603
18	0431	0459	1540	1608
22	0425	0453	1545	1613
26	0419	0446	1551	1618

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUN 2	0148	0222	1745	1819
6	0146	0220	1748	1822
10	0145	0219	1751	1825
14	0144	0219	1753	1828
18	0144	0219	1754	1829
22	0145	0220	1755	1830
26	0146	0221	1756	1831
30	0148	0223	1756	1830



CRAIOVA / Craiova - LRCV  
441905N 0235319E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL 1	0208	0242	1814	1848
5	0210	0245	1813	1847
9	0214	0248	1811	1845
13	0217	0251	1809	1842
17	0221	0254	1806	1839
21	0226	0258	1803	1835
25	0230	0302	1759	1831
29	0235	0307	1754	1826

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV 2	0432	0501	1514	1543
6	0437	0506	1509	1538
10	0443	0512	1504	1533
14	0448	0517	1500	1529
18	0452	0522	1456	1526
22	0457	0527	1453	1523
26	0502	0532	1450	1521
30	0506	0537	1448	1519

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR 2	0430	0458	1614	1642
6	0423	0451	1620	1647
10	0416	0444	1625	1652
14	0409	0437	1630	1657
18	0402	0429	1635	1702
22	0354	0422	1640	1707
26	0347	0414	1645	1712
30	0339	0407	1650	1717

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG 2	0240	0311	1749	1821
6	0245	0316	1744	1815
10	0250	0320	1738	1809
14	0255	0325	1732	1802
18	0300	0329	1726	1756
22	0305	0334	1720	1749
26	0310	0339	1713	1742
30	0315	0343	1706	1734

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC 4	0510	0541	1447	1518
8	0514	0545	1446	1518
12	0517	0549	1447	1518
16	0520	0552	1447	1519
20	0523	0554	1449	1520
24	0525	0556	1451	1522
28	0526	0557	1454	1525

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR 3	0332	0400	1655	1723
7	0324	0353	1700	1728
11	0317	0346	1704	1733
15	0310	0339	1709	1738
19	0303	0332	1714	1743
23	0256	0325	1719	1749
27	0249	0319	1724	1754

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP 3	0320	0348	1659	1727
7	0325	0353	1651	1719
11	0329	0357	1644	1712
15	0334	0402	1636	1704
19	0339	0406	1629	1656
23	0344	0411	1621	1649
27	0348	0416	1614	1641

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN 1	0527	0558	1457	1528
5	0527	0558	1501	1532
9	0526	0557	1505	1536
13	0525	0556	1510	1540
17	0523	0554	1514	1545
21	0521	0551	1520	1550
25	0518	0547	1525	1555
29	0514	0544	1530	1600

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY 1	0243	0313	1729	1759
5	0237	0307	1734	1805
9	0231	0302	1739	1810
13	0226	0257	1743	1815
17	0221	0253	1748	1820
21	0216	0249	1752	1825
25	0213	0246	1756	1829
29	0209	0243	1800	1833

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT 1	0353	0421	1607	1634
5	0358	0425	1559	1627
9	0403	0430	1552	1620
13	0408	0435	1545	1613
17	0412	0440	1538	1606
21	0417	0445	1532	1600
25	0422	0451	1525	1554
29	0427	0456	1519	1548

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB 2	0510	0539	1536	1605
6	0506	0534	1542	1610
10	0501	0529	1547	1616
14	0455	0523	1553	1621
18	0449	0517	1558	1626
22	0443	0511	1604	1632
26	0437	0505	1609	1637

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUN 2	0207	0241	1803	1837
6	0205	0239	1806	1841
10	0203	0238	1809	1843
14	0203	0238	1811	1846
18	0203	0238	1813	1847
22	0203	0238	1814	1848
26	0205	0240	1814	1849
30	0207	0242	1814	1848

CRAIOVA / Craiova – Sud - LRCW  
441711N 0234728E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL 1	0208	0243	1814	1848
5	0211	0245	1813	1847
9	0214	0248	1811	1845
13	0218	0251	1809	1843
17	0222	0255	1806	1839
21	0226	0259	1803	1836
25	0231	0303	1759	1831
29	0235	0307	1754	1826

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV 2	0433	0501	1514	1543
6	0438	0507	1509	1538
10	0443	0512	1504	1534
14	0448	0517	1500	1530
18	0453	0523	1456	1526
22	0458	0528	1453	1523
26	0502	0533	1451	1521
30	0507	0537	1449	1520

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR 2	0431	0458	1615	1642
6	0424	0451	1620	1647
10	0417	0444	1625	1652
14	0410	0437	1630	1658
18	0402	0430	1635	1703
22	0355	0422	1640	1708
26	0347	0415	1645	1713
30	0340	0408	1650	1718

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG 2	0240	0312	1750	1821
6	0245	0316	1744	1815
10	0250	0321	1739	1809
14	0255	0325	1733	1803
18	0300	0330	1726	1756
22	0305	0335	1720	1749
26	0310	0339	1713	1742
30	0315	0344	1706	1735

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC 4	0511	0542	1448	1519
8	0514	0546	1447	1518
12	0518	0549	1447	1518
16	0521	0552	1448	1519
20	0523	0555	1449	1521
24	0525	0557	1451	1523
28	0526	0558	1454	1526

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR 3	0332	0400	1655	1723
7	0325	0353	1700	1728
11	0318	0346	1705	1733
15	0310	0339	1710	1738
19	0303	0332	1715	1744
23	0256	0326	1720	1749
27	0250	0320	1724	1754

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP 3	0320	0348	1659	1727
7	0325	0353	1652	1720
11	0330	0358	1644	1712
15	0335	0402	1637	1704
19	0339	0407	1629	1657
23	0344	0412	1622	1649
27	0349	0416	1614	1642

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN 1	0527	0558	1457	1529
5	0527	0558	1501	1532
9	0526	0557	1505	1536
13	0525	0556	1510	1541
17	0523	0554	1515	1545
21	0521	0551	1520	1550
25	0518	0548	1525	1555
29	0514	0544	1531	1600

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY 1	0243	0314	1729	1800
5	0237	0308	1734	1805
9	0231	0303	1739	1810
13	0226	0258	1743	1815
17	0221	0254	1748	1820
21	0217	0250	1752	1825
25	0213	0246	1756	1829
29	0210	0243	1800	1834

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT 1	0354	0421	1607	1634
5	0358	0426	1600	1627
9	0403	0431	1552	1620
13	0408	0436	1545	1613
17	0413	0441	1539	1606
21	0418	0446	1532	1600
25	0423	0451	1526	1554
29	0428	0456	1520	1548

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB 2	0510	0540	1536	1606
6	0506	0535	1542	1611
10	0501	0529	1548	1616
14	0456	0524	1553	1621
18	0450	0518	1559	1627
22	0444	0512	1604	1632
26	0437	0505	1609	1637

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUN 2	0207	0241	1804	1837
6	0205	0240	1807	1841
10	0204	0238	1809	1844
14	0203	0238	1811	1846
18	0203	0238	1813	1848
22	0204	0239	1814	1849
26	0205	0240	1814	1849
30	0207	0242	1814	1849



DEVA / Saulesti-Constantin Manolache - LRDV  
455159N 0225758E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL 1	0203	0240	1823	1900
5	0206	0242	1822	1858
9	0210	0245	1820	1856
13	0214	0249	1818	1853
17	0218	0253	1815	1850
21	0223	0257	1811	1846
25	0227	0301	1807	1841
29	0233	0306	1803	1836

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV 2	0438	0508	1514	1544
6	0444	0514	1509	1539
10	0449	0519	1504	1534
14	0454	0525	1459	1530
18	0500	0530	1455	1526
22	0505	0536	1452	1523
26	0509	0541	1449	1521
30	0514	0546	1447	1519

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR 2	0435	0503	1617	1645
6	0427	0456	1622	1650
10	0420	0448	1628	1656
14	0412	0441	1633	1701
18	0405	0433	1638	1707
22	0357	0425	1644	1712
26	0349	0417	1649	1717
30	0341	0410	1654	1723

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG 2	0238	0310	1757	1830
6	0243	0315	1752	1824
10	0249	0320	1746	1817
14	0254	0325	1740	1811
18	0259	0330	1733	1803
22	0305	0335	1726	1756
26	0310	0340	1719	1749
30	0316	0345	1712	1741

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC 4	0518	0550	1445	1518
8	0522	0555	1445	1517
12	0526	0558	1445	1517
16	0529	0601	1445	1518
20	0531	0604	1447	1520
24	0533	0606	1449	1522
28	0534	0607	1452	1524

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR 3	0333	0402	1700	1728
7	0326	0355	1705	1734
11	0318	0347	1710	1739
15	0310	0340	1715	1745
19	0303	0333	1721	1751
23	0256	0326	1726	1756
27	0248	0319	1731	1802

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP 3	0321	0350	1704	1733
7	0326	0355	1656	1725
11	0331	0400	1649	1717
15	0336	0405	1641	1709
19	0341	0410	1633	1701
23	0346	0415	1625	1653
27	0352	0420	1617	1646

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN 1	0535	0607	1455	1528
5	0535	0607	1459	1531
9	0534	0606	1503	1535
13	0533	0604	1508	1540
17	0531	0602	1513	1545
21	0528	0559	1519	1550
25	0525	0555	1524	1555
29	0521	0551	1530	1601

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY 1	0242	0313	1736	1808
5	0235	0307	1742	1813
9	0229	0302	1747	1819
13	0223	0256	1752	1825
17	0218	0252	1756	1830
21	0214	0248	1801	1835
25	0209	0244	1805	1840
29	0206	0241	1809	1844

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT 1	0357	0425	1610	1638
5	0402	0430	1602	1630
9	0407	0435	1554	1623
13	0412	0440	1547	1616
17	0417	0446	1540	1609
21	0423	0451	1533	1602
25	0428	0457	1527	1556
29	0433	0502	1520	1550

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB 2	0517	0547	1536	1606
6	0512	0541	1542	1612
10	0506	0536	1548	1617
14	0501	0530	1554	1623
18	0455	0524	1559	1628
22	0448	0517	1605	1634
26	0442	0510	1611	1639

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

DEZMIR / Dezmir - LRCJ  
464645N 0234243E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL 1	0156	0233	1824	1902
5	0159	0236	1823	1900
9	0202	0239	1821	1858
13	0206	0242	1819	1855
17	0211	0246	1815	1851
21	0215	0251	1812	1847
25	0221	0255	1807	1842
29	0226	0300	1803	1836

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV 2	0437	0507	1509	1539
6	0442	0513	1504	1534
10	0448	0519	1458	1529
14	0453	0525	1454	1525
18	0459	0530	1449	1521
22	0504	0536	1446	1518
26	0509	0541	1443	1515
30	0514	0546	1441	1513

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR 2	0432	0501	1613	1642
6	0425	0453	1619	1647
10	0417	0446	1624	1653
14	0409	0438	1630	1659
18	0401	0430	1635	1704
22	0353	0422	1641	1710
26	0345	0414	1647	1715
30	0337	0406	1652	1721

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG 2	0231	0305	1757	1830
6	0237	0310	1751	1824
10	0243	0315	1745	1817
14	0248	0320	1739	1810
18	0254	0325	1732	1803
22	0300	0330	1725	1755
26	0305	0335	1717	1748
30	0311	0341	1710	1740

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC 4	0518	0551	1439	1512
8	0522	0555	1438	1511
12	0525	0559	1438	1511
16	0528	0602	1439	1512
20	0531	0604	1440	1514
24	0533	0606	1442	1516
28	0534	0607	1445	1519

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR 3	0329	0358	1658	1727
7	0321	0351	1703	1733
11	0313	0343	1708	1738
15	0305	0335	1714	1744
19	0258	0328	1719	1750
23	0250	0321	1725	1756
27	0243	0314	1730	1802

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP 3	0316	0346	1702	1732
7	0322	0351	1654	1724
11	0327	0356	1646	1715
15	0332	0401	1638	1707
19	0338	0406	1630	1659
23	0343	0412	1622	1651
27	0348	0417	1614	1643

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN 1	0535	0608	1449	1522
5	0534	0607	1453	1526
9	0534	0606	1457	1530
13	0532	0605	1502	1535
17	0530	0602	1507	1539
21	0527	0559	1513	1545
25	0524	0555	1519	1550
29	0520	0551	1525	1556

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY 1	0236	0308	1736	1808
5	0229	0302	1741	1814
9	0223	0256	1746	1819
13	0217	0251	1751	1825
17	0211	0246	1756	1831
21	0206	0241	1801	1836
25	0202	0238	1806	1841
29	0158	0234	1810	1846

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT 1	0354	0422	1606	1635
5	0359	0428	1558	1627
9	0404	0433	1551	1620
13	0410	0438	1543	1612
17	0415	0444	1536	1605
21	0420	0450	1529	1558
25	0426	0455	1522	1551
29	0431	0501	1515	1545

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB 2	0515	0546	1531	1601
6	0510	0541	1537	1607
10	0505	0535	1543	1613
14	0459	0529	1549	1619
18	0453	0522	1555	1624
22	0446	0515	1601	1630
26	0439	0508	1607	1636

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUN 2	0155	0232	1813	1850
6	0153	0230	1817	1854
10	0151	0229	1820	1857
14	0151	0228	1822	1859
18	0151	0228	1823	1901
22	0151	0229	1824	1902
26	0153	0230	1825	1902
30	0155	0232	1825	1902



GHEORGHENI / Remetea - LRHR  
464909N 0252442E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL	1	0149	0226	1818
	5	0152	0229	1816
	9	0155	0232	1815
	13	0159	0235	1812
	17	0204	0239	1809
	21	0208	0244	1805
	25	0214	0248	1801
	29	0219	0253	1756

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV	2	0430	0500	1502
	6	0436	0506	1457
	10	0441	0512	1452
	14	0447	0518	1447
	18	0452	0524	1443
	22	0457	0529	1439
	26	0502	0534	1436
	30	0507	0539	1434

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR	2	0425	0454	1606
	6	0418	0446	1612
	10	0410	0439	1617
	14	0402	0431	1623
	18	0354	0423	1629
	22	0346	0415	1634
	26	0338	0407	1640
	30	0330	0359	1645

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG	2	0224	0258	1751
	6	0230	0303	1745
	10	0236	0308	1739
	14	0241	0313	1732
	18	0247	0318	1725
	22	0253	0323	1718
	26	0258	0329	1711
	30	0304	0334	1703

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC	4	0511	0544	1432
	8	0515	0548	1431
	12	0519	0552	1431
	16	0522	0555	1432
	20	0524	0558	1433
	24	0526	0600	1435
	28	0527	0601	1438

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR	3	0322	0352	1651
	7	0314	0344	1656
	11	0306	0336	1702
	15	0258	0329	1707
	19	0251	0321	1713
	23	0243	0314	1718
	27	0236	0307	1724

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP	3	0309	0339	1655
	7	0315	0344	1648
	11	0320	0349	1640
	15	0325	0354	1632
	19	0331	0400	1624
	23	0336	0405	1615
	27	0341	0410	1607

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN	1	0528	0601	1442
	5	0528	0601	1446
	9	0527	0600	1450
	13	0525	0558	1455
	17	0523	0555	1500
	21	0520	0552	1506
	25	0517	0548	1512
	29	0513	0544	1518

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY	1	0229	0301	1729
	5	0222	0255	1734
	9	0216	0249	1740
	13	0210	0244	1745
	17	0204	0239	1750
	21	0159	0234	1754
	25	0155	0231	1759
	29	0151	0228	1803

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT	1	0347	0415	1600
	5	0352	0421	1552
	9	0357	0426	1544
	13	0403	0432	1536
	17	0408	0437	1529
	21	0414	0443	1522
	25	0419	0449	1515
	29	0425	0454	1509

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB	2	0509	0539	1524
	6	0504	0534	1530
	10	0458	0528	1536
	14	0452	0522	1542
	18	0446	0515	1548
	22	0439	0508	1554
	26	0432	0501	1600

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

GHIMBAV / IAR BRASOV - LRBG  
454145N 0253202E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL	1	0154	0230	1812
	5	0157	0233	1811
	9	0200	0236	1810
	13	0204	0239	1807
	17	0208	0243	1804
	21	0213	0247	1801
	25	0218	0251	1756
	29	0223	0256	1752

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV	2	0428	0457	1504
	6	0433	0503	1459
	10	0439	0509	1454
	14	0444	0514	1449
	18	0449	0520	1445
	22	0454	0525	1442
	26	0459	0530	1439
	30	0503	0535	1437

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR	2	0424	0452	1606
	6	0417	0445	1612
	10	0410	0438	1617
	14	0402	0430	1623
	18	0355	0423	1628
	22	0347	0415	1634
	26	0339	0407	1639
	30	0331	0400	1644

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG	2	0228	0301	1747
	6	0234	0305	1741
	10	0239	0310	1735
	14	0244	0315	1729
	18	0250	0320	1722
	22	0255	0325	1715
	26	0300	0330	1708
	30	0306	0335	1701

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC	4	0508	0540	1436
	8	0511	0544	1435
	12	0515	0547	1435
	16	0518	0550	1436
	20	0520	0553	1437
	24	0522	0555	1439
	28	0523	0556	1442

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR	3	0323	0352	1649
	7	0316	0345	1654
	11	0308	0337	1700
	15	0300	0330	1705
	19	0253	0323	1710
	23	0246	0316	1715
	27	0239	0310	1721

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP	3	0311	0340	1654
	7	0316	0345	1646
	11	0321	0350	1638
	15	0326	0355	1630
	19	0331	0359	1623
	23	0336	0404	1615
	27	0341	0409	1607

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN	1	0524	0556	1445
	5	0524	0556	1449
	9	0523	0555	1454
	13	0522	0554	1459
	17	0520	0551	1504
	21	0517	0548	1509
	25	0514	0545	1515
	29	0510	0541	1520

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY	1	0232	0303	1726
	5	0226	0257	1731
	9	0220	0252	1736
	13	0214	0247	1741
	17	0209	0242	1745
	21	0204	0238	1750
	25	0200	0234	1754
	29	0156	0231	1758

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT	1	0346	0414	1559
	5	0351	0420	1552
	9	0357	0425	1544
	13	0402	0430	1537
	17	0407	0435	1530
	21	0412	0441	1523
	25	0417	0446	1517
	29	0423	0452	1510

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB	2	0506	0536	1526
	6	0501	0531	1532
	10	0456	0525	1538
	14	0450	0519	1544
	18	0444	0513	1549
	22	0438	0506	1555
	26	0431	0500	1601

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUN	2	0154	0229	1802
	6	0151	0227	1805
	10	0150	0226	1808
	14	0149	0225	1810
	18	0149	0225	1812
	22	0150	0226	1813
	26	0151	0228	1813
	30	0153	0229	1813



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

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO	MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO	MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO			
JUL	1	0154	0230	1812	1848	NOV	2	0428	0457	1504	1534	MAR	2	0424	0453	1607	1635
	5	0157	0233	1811	1847		6	0433	0503	1459	1529		6	0417	0445	1612	1640
	9	0200	0236	1810	1845		10	0439	0509	1454	1524		10	0410	0438	1618	1646
	13	0204	0239	1807	1842		14	0444	0514	1449	1520		14	0402	0430	1623	1651
	17	0209	0243	1804	1839		18	0449	0520	1445	1516		18	0355	0423	1628	1656
	21	0213	0247	1801	1835		22	0454	0525	1442	1513		22	0347	0415	1634	1702
	25	0218	0251	1756	1830		26	0459	0530	1439	1511		26	0339	0407	1639	1707
	29	0223	0256	1752	1825		30	0503	0535	1437	1509		30	0331	0400	1644	1712
AUG	2	0228	0301	1747	1819	DEC	4	0508	0540	1436	1508	APR	3	0323	0352	1649	1718
	6	0234	0305	1741	1813		8	0511	0544	1435	1507		7	0316	0345	1654	1723
	10	0239	0310	1735	1807		12	0515	0547	1435	1507		11	0308	0337	1700	1729
	14	0244	0315	1729	1800		16	0518	0550	1436	1508		15	0300	0330	1705	1734
	18	0250	0320	1722	1753		20	0520	0553	1437	1510		19	0253	0323	1710	1740
	22	0255	0325	1715	1745		24	0522	0555	1439	1512		23	0246	0316	1715	1746
	26	0300	0330	1708	1738		28	0523	0556	1442	1515		27	0239	0310	1721	1751
	30	0306	0335	1701	1730	JAN	1	0524	0556	1446	1518	MAY	1	0232	0303	1726	1757
SEP	3	0311	0340	1654	1723		5	0524	0556	1449	1522		5	0226	0257	1731	1803
	7	0316	0345	1646	1715		9	0523	0555	1454	1526		9	0220	0252	1736	1808
	11	0321	0350	1638	1707		13	0522	0554	1459	1530		13	0214	0247	1741	1814
	15	0326	0355	1631	1659		17	0520	0551	1504	1535		17	0209	0242	1745	1819
	19	0331	0400	1623	1651		21	0517	0548	1509	1540		21	0204	0238	1750	1824
	23	0336	0404	1615	1643		25	0514	0545	1515	1545		25	0200	0234	1754	1829
	27	0341	0409	1607	1635		29	0510	0541	1520	1551		29	0156	0231	1758	1833
OCT	1	0346	0415	1559	1628	FEB	2	0506	0536	1526	1556	JUN	2	0154	0229	1802	1837
	5	0352	0420	1552	1620		6	0501	0531	1532	1602		6	0151	0227	1805	1841
	9	0357	0425	1544	1613		10	0456	0525	1538	1607		10	0150	0226	1808	1844
	13	0402	0430	1537	1605		14	0450	0519	1544	1613		14	0149	0225	1810	1846
	17	0407	0435	1530	1559		18	0444	0513	1550	1618		18	0149	0226	1812	1848
	21	0412	0441	1523	1552		22	0438	0506	1555	1624		22	0150	0226	1813	1849
	25	0417	0446	1517	1546		26	0431	0500	1601	1629		26	0151	0228	1813	1849
	29	0423	0452	1510	1540								30	0153	0230	1813	1849

GRADISTEA / Gradistea - LRBA  
441330N 0260717E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO	MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO	MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO			
JUL	1	0159	0234	1804	1839	NOV	2	0423	0452	1505	1534	MAR	2	0421	0449	1605	1633
	5	0202	0236	1803	1838		6	0428	0457	1500	1529		6	0414	0442	1611	1638
	9	0205	0239	1802	1836		10	0433	0503	1455	1524		10	0407	0435	1616	1643
	13	0209	0242	1759	1833		14	0438	0508	1451	1521		14	0400	0428	1621	1648
	17	0213	0246	1757	1830		18	0443	0513	1447	1517		18	0353	0420	1626	1653
	21	0217	0250	1753	1826		22	0448	0518	1444	1514		22	0346	0413	1631	1658
	25	0221	0254	1749	1822		26	0453	0523	1442	1512		26	0338	0406	1636	1703
	29	0226	0258	1745	1817		30	0457	0528	1440	1510		30	0331	0358	1641	1708
AUG	2	0231	0302	1740	1811	DEC	4	0501	0532	1438	1509	APR	3	0323	0351	1646	1713
	6	0236	0307	1735	1806		8	0505	0536	1438	1509		7	0316	0344	1651	1719
	10	0241	0311	1729	1800		12	0508	0540	1438	1509		11	0308	0337	1655	1724
	14	0246	0316	1723	1753		16	0511	0543	1439	1510		15	0301	0330	1700	1729
	18	0251	0321	1717	1747		20	0514	0545	1440	1512		19	0254	0323	1705	1734
	22	0256	0325	1710	1740		24	0515	0547	1442	1514		23	0247	0317	1710	1740
	26	0301	0330	1704	1732		28	0517	0548	1445	1516		27	0241	0310	1715	1745
	30	0306	0335	1657	1725	JAN	1	0517	0549	1448	1520	MAY	1	0234	0304	1720	1750
SEP	3	0311	0339	1649	1718		5	0518	0549	1452	1523		5	0228	0259	1725	1755
	7	0316	0344	1642	1710		9	0517	0548	1456	1527		9	0222	0254	1729	1801
	11	0321	0348	1635	1703		13	0516	0546	1501	1532		13	0217	0249	1734	1806
	15	0325	0353	1627	1655		17	0514	0544	1506	1536		17	0212	0244	1738	1811
	19	0330	0358	1620	1647		21	0512	0542	1511	1541		21	0208	0241	1743	1815
	23	0335	0402	1612	1640		25	0509	0538	1516	1546		25	0204	0237	1747	1820
	27	0340	0407	1605	1632		29	0505	0534	1522	1551		29	0201	0234	1751	1824
OCT	1	0344	0412	1558	1625	FEB	2	0501	0530	1527	1556	JUN	2	0158	0232	1754	1828
	5	0349	0416	1550	1618		6	0456	0525	1533	1602		6	0156	0230	1757	1831
	9	0354	0421	1543	1611		10	0451	0520	1538	1607		10	0155	0229	1800	1834
	13	0359	0426	1536	1604		14	0446	0514	1544	1612		14	0154	0229	1802	1836
	17	0403	0431	1529	1557		18	0440	0508	1549	1617		18	0154	0229	1803	1838
	21	0408	0436	1523	1551		22	0434	0502	1555	1623		22	0155	0230	1804	1839
	25	0413	0441	1517	1545		26	0428	0456	1600	1628		26	0156	0231	1805	1839
	29	0418	0447	1511	1539								30	0158	0233	1804	1839



IASI / Iasi - LRIA  
471049N 0273715E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL 1	0138	0216	1810	1848
5	0141	0218	1809	1847
9	0144	0221	1807	1844
13	0148	0225	1805	1841
17	0153	0229	1801	1837
21	0158	0233	1758	1833
25	0203	0238	1753	1828
29	0209	0243	1748	1822

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV 2	0422	0452	1453	1523
6	0428	0458	1447	1518
10	0433	0504	1442	1513
14	0439	0510	1437	1508
18	0444	0516	1433	1504
22	0449	0521	1429	1501
26	0454	0527	1426	1458
30	0459	0532	1424	1456

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR 2	0417	0446	1557	1626
6	0409	0438	1603	1632
10	0401	0430	1608	1637
14	0353	0422	1614	1643
18	0345	0414	1620	1649
22	0337	0406	1625	1654
26	0329	0358	1631	1700
30	0321	0350	1637	1706

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG 2	0214	0248	1743	1816
6	0220	0253	1737	1810
10	0226	0258	1731	1803
14	0231	0303	1724	1756
18	0237	0309	1717	1749
22	0243	0314	1710	1741
26	0249	0319	1702	1733
30	0254	0324	1655	1725

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC 4	0503	0537	1422	1455
8	0507	0541	1421	1455
12	0511	0545	1421	1455
16	0514	0548	1422	1455
20	0517	0550	1423	1457
24	0518	0552	1425	1459
28	0520	0553	1428	1502

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR 3	0313	0342	1642	1712
7	0305	0335	1648	1718
11	0257	0327	1653	1723
15	0249	0319	1659	1729
19	0241	0312	1705	1735
23	0233	0305	1710	1741
27	0226	0258	1716	1747

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP 3	0300	0330	1647	1717
7	0305	0335	1639	1709
11	0311	0340	1631	1700
15	0316	0345	1623	1652
19	0322	0351	1615	1644
23	0327	0356	1607	1636
27	0332	0401	1559	1627

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN 1	0520	0554	1431	1505
5	0520	0553	1436	1509
9	0519	0552	1440	1513
13	0518	0550	1445	1518
17	0515	0548	1450	1523
21	0513	0545	1456	1528
25	0509	0541	1502	1534
29	0505	0536	1508	1539

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY 1	0219	0251	1721	1753
5	0212	0245	1727	1759
9	0206	0239	1732	1805
13	0200	0234	1737	1811
17	0154	0229	1742	1817
21	0149	0224	1747	1822
25	0145	0220	1751	1827
29	0141	0217	1756	1832

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT 1	0338	0407	1551	1619
5	0343	0412	1543	1612
9	0349	0418	1535	1604
13	0354	0423	1527	1556
17	0400	0429	1520	1549
21	0405	0435	1513	1542
25	0411	0440	1506	1535
29	0416	0446	1459	1529

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB 2	0500	0531	1514	1545
6	0455	0526	1520	1551
10	0450	0520	1526	1557
14	0444	0514	1533	1602
18	0437	0507	1539	1608
22	0431	0500	1545	1614
26	0424	0453	1551	1620

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUN 2	0138	0215	1759	1836
6	0135	0213	1803	1840
10	0134	0211	1806	1843
14	0133	0211	1808	1846
18	0133	0211	1810	1848
22	0133	0211	1811	1849
26	0135	0213	1811	1849
30	0137	0215	1811	1849

IASI / Iasi-Sud - LRIS  
470929N 0273815E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL 1	0138	0216	1810	1848
5	0141	0218	1809	1846
9	0144	0221	1807	1844
13	0149	0225	1804	1841
17	0153	0229	1801	1837
21	0158	0233	1757	1833
25	0203	0238	1753	1828
29	0209	0243	1748	1822

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV 2	0422	0452	1453	1523
6	0427	0458	1447	1518
10	0433	0504	1442	1513
14	0439	0510	1437	1508
18	0444	0516	1433	1504
22	0449	0521	1429	1501
26	0454	0527	1426	1458
30	0459	0532	1424	1456

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR 2	0416	0445	1557	1626
6	0409	0438	1603	1631
10	0401	0430	1608	1637
14	0353	0422	1614	1643
18	0345	0414	1620	1649
22	0337	0406	1625	1654
26	0329	0358	1631	1700
30	0321	0350	1637	1706

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG 2	0214	0248	1743	1816
6	0220	0253	1737	1810
10	0226	0258	1731	1803
14	0231	0303	1724	1756
18	0237	0309	1717	1748
22	0243	0314	1710	1741
26	0249	0319	1702	1733
30	0254	0324	1655	1725

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC 4	0503	0536	1422	1455
8	0507	0541	1421	1455
12	0511	0544	1421	1455
16	0514	0548	1422	1455
20	0516	0550	1423	1457
24	0518	0552	1425	1459
28	0519	0553	1428	1502

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR 3	0313	0342	1642	1712
7	0305	0334	1648	1717
11	0257	0327	1653	1723
15	0249	0319	1659	1729
19	0241	0312	1704	1735
23	0233	0305	1710	1741
27	0226	0258	1715	1747

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP 3	0300	0330	1647	1717
7	0305	0335	1639	1709
11	0311	0340	1631	1700
15	0316	0345	1623	1652
19	0322	0351	1615	1644
23	0327	0356	1607	1635
27	0332	0401	1559	1627

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN 1	0520	0553	1432	1505
5	0520	0553	1436	1509
9	0519	0552	1440	1513
13	0517	0550	1445	1518
17	0515	0548	1450	1523
21	0512	0544	1456	1528
25	0509	0541	1502	1533
29	0505	0536	1508	1539

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY 1	0219	0251	1721	1753
5	0212	0245	1726	1759
9	0206	0239	1732	1805
13	0200	0234	1737	1811
17	0154	0229	1742	1817
21	0149	0224	1747	1822
25	0145	0221	1751	1827
29	0141	0217	1755	1832

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT 1	0338	0407	1550	1619
5	0343	0412	1543	1611
9	0349	0418	1535	1604
13	0354	0423	1527	1556
17	0400	0429	1520	1549
21	0405	0435	1513	1542
25	0411	0440	1506	1535
29	0416	0446	1459	1529

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB 2	0500	0531	1514	1545
6	0455	0526	1520	1551
10	0450	0520	1526	1557
14	0444	0514	1533	1602
18	0437	0507	1539	1608
22	0431	0500	1545	1614
26	0424	0453	1551	1620

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUN 2	0138	0215	1759	1836
6	0135	0213	1803	1840
10	0134	0211	1805	1843
14	0133	0211	1808	1846
18	0133	0211	1809	1848
22	0133	0212	1810	1849
26	0135	0213	1811	1849
30	0137	0215	1810	1848



NAVODARI / Midia-Constanta - LRM  
441944N 0283925E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL 1	0148	0223	1755	1829
5	0151	0226	1754	1828
9	0154	0228	1752	1826
13	0158	0232	1750	1823
17	0202	0235	1747	1820
21	0206	0239	1743	1816
25	0211	0243	1740	1812
29	0216	0248	1735	1807

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV 2	0413	0442	1455	1524
6	0418	0447	1450	1519
10	0423	0453	1445	1514
14	0428	0458	1441	1510
18	0433	0503	1437	1507
22	0438	0508	1434	1504
26	0443	0513	1431	1502
30	0447	0518	1429	1500

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR 2	0411	0439	1555	1623
6	0404	0432	1600	1628
10	0357	0425	1606	1633
14	0350	0417	1611	1638
18	0343	0410	1616	1643
22	0335	0403	1621	1648
26	0328	0355	1626	1653
30	0320	0348	1631	1658

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG 2	0221	0252	1730	1802
6	0226	0256	1725	1756
10	0231	0301	1719	1750
14	0236	0306	1713	1743
18	0241	0310	1707	1737
22	0246	0315	1700	1730
26	0251	0320	1654	1723
30	0256	0324	1647	1715

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC 4	0451	0522	1428	1459
8	0455	0526	1427	1459
12	0458	0530	1427	1459
16	0501	0533	1428	1500
20	0504	0535	1430	1501
24	0506	0537	1432	1503
28	0507	0538	1435	1506

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR 3	0313	0341	1636	1703
7	0305	0334	1640	1709
11	0258	0326	1645	1714
15	0251	0320	1650	1719
19	0244	0313	1655	1724
23	0237	0306	1700	1730
27	0230	0300	1705	1735

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP 3	0301	0329	1639	1708
7	0305	0333	1632	1700
11	0310	0338	1625	1653
15	0315	0343	1617	1645
19	0320	0347	1610	1637
23	0325	0352	1602	1630
27	0329	0357	1555	1622

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN 1	0508	0539	1438	1509
5	0508	0539	1442	1513
9	0507	0538	1446	1517
13	0506	0537	1450	1521
17	0504	0534	1455	1526
21	0502	0532	1501	1531
25	0459	0528	1506	1536
29	0455	0525	1511	1541

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY 1	0224	0254	1710	1740
5	0218	0248	1715	1746
9	0212	0243	1719	1751
13	0207	0238	1724	1756
17	0202	0234	1729	1801
21	0157	0230	1733	1806
25	0153	0227	1737	1810
29	0150	0224	1741	1814

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT 1	0334	0401	1547	1615
5	0339	0406	1540	1608
9	0344	0411	1533	1601
13	0348	0416	1526	1554
17	0353	0421	1519	1547
21	0358	0426	1513	1541
25	0403	0431	1506	1535
29	0408	0437	1500	1529

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB 2	0451	0520	1517	1546
6	0446	0515	1522	1551
10	0442	0510	1528	1557
14	0436	0504	1534	1602
18	0430	0458	1539	1607
22	0424	0452	1545	1612
26	0418	0446	1550	1618

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUN 2	0148	0222	1744	1818
6	0146	0220	1747	1822
10	0144	0219	1750	1824
14	0144	0218	1752	1827
18	0144	0219	1754	1828
22	0144	0219	1755	1829
26	0146	0221	1755	1830
30	0148	0222	1755	1829

ORADEA / Oradea - LROD  
470131N 0215409E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL 1	0201	0239	1833	1910
5	0204	0242	1831	1909
9	0208	0245	1829	1906
13	0212	0249	1827	1903
17	0217	0253	1824	1900
21	0222	0257	1820	1855
25	0227	0301	1815	1850
29	0232	0306	1811	1845

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV 2	0445	0515	1516	1546
6	0450	0521	1510	1541
10	0456	0527	1505	1536
14	0501	0532	1500	1532
18	0507	0538	1456	1528
22	0512	0544	1452	1524
26	0517	0549	1449	1522
30	0521	0554	1447	1520

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR 2	0439	0508	1620	1649
6	0432	0501	1626	1654
10	0424	0453	1631	1700
14	0416	0445	1637	1706
18	0408	0437	1643	1712
22	0400	0429	1648	1717
26	0352	0421	1654	1723
30	0344	0413	1659	1729

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG 2	0238	0311	1805	1839
6	0243	0316	1759	1832
10	0249	0321	1753	1825
14	0255	0327	1747	1818
18	0300	0332	1740	1811
22	0306	0337	1732	1803
26	0312	0342	1725	1756
30	0317	0347	1717	1748

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC 4	0526	0559	1445	1518
8	0530	0603	1445	1518
12	0533	0607	1445	1518
16	0536	0610	1445	1519
20	0539	0613	1447	1520
24	0541	0614	1449	1522
28	0542	0615	1452	1525

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR 3	0336	0405	1705	1734
7	0328	0358	1711	1740
11	0320	0350	1716	1746
15	0312	0342	1722	1752
19	0304	0335	1727	1758
23	0257	0328	1733	1804
27	0249	0321	1738	1810

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP 3	0323	0353	1710	1739
7	0328	0358	1702	1731
11	0334	0403	1654	1723
15	0339	0408	1646	1715
19	0345	0414	1638	1707
23	0350	0419	1630	1658
27	0355	0424	1621	1650

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN 1	0543	0616	1455	1528
5	0542	0616	1459	1532
9	0542	0614	1504	1536
13	0540	0613	1508	1541
17	0538	0610	1514	1546
21	0535	0607	1519	1551
25	0532	0603	1525	1557
29	0528	0559	1531	1602

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY 1	0242	0314	1744	1816
5	0235	0308	1749	1822
9	0229	0302	1754	1828
13	0223	0257	1759	1833
17	0218	0252	1804	1839
21	0213	0248	1809	1844
25	0208	0244	1814	1850
29	0204	0241	1818	1854

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT 1	0401	0430	1613	1642
5	0406	0435	1606	1634
9	0412	0440	1558	1627
13	0417	0446	1550	1619
17	0422	0452	1543	1612
21	0428	0457	1536	1605
25	0433	0503	1529	1558
29	0439	0509	1522	1552

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB 2	0523	0554	1537	1608
6	0518	0548	1543	1614
10	0512	0543	1550	1620
14	0506	0536	1556	1626
18	0500	0530	1602	1631
22	0454	0523	1608	1637
26	0447	0516	1614	1643

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUN 2	0201	0238	1822	1859
6	0159	0236	1825	1902
10	0157	0235	1828	1905
14	0156	0234	1830	1908
18	0156	0234	1832	1910
22	0157	0235	1833	1911
26	0158	0236	1833	1911
30	0201	0238	1833	1911



ORADEA / SMURD BH 2 - LRHO  
470351N 0215715E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL 1	0201	0239	1833	1910
5	0204	0241	1831	1909
9	0208	0245	1829	1906
13	0212	0248	1827	1903
17	0216	0252	1824	1900
21	0221	0257	1820	1855
25	0226	0301	1815	1850
29	0232	0306	1810	1845

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV 2	0444	0515	1516	1546
6	0450	0521	1510	1541
10	0456	0527	1505	1536
14	0501	0532	1500	1531
18	0506	0538	1456	1527
22	0512	0544	1452	1524
26	0517	0549	1449	1521
30	0521	0554	1447	1519

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR 2	0439	0508	1620	1649
6	0432	0500	1625	1654
10	0424	0453	1631	1700
14	0416	0445	1637	1706
18	0408	0437	1643	1711
22	0400	0429	1648	1717
26	0352	0421	1654	1723
30	0344	0413	1659	1728

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG 2	0237	0311	1805	1839
6	0243	0316	1759	1832
10	0249	0321	1753	1825
14	0254	0326	1746	1818
18	0300	0331	1740	1811
22	0306	0337	1732	1803
26	0311	0342	1725	1755
30	0317	0347	1717	1747

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC 4	0526	0559	1445	1518
8	0530	0603	1444	1518
12	0533	0607	1444	1518
16	0536	0610	1445	1518
20	0539	0612	1446	1520
24	0541	0614	1448	1522
28	0542	0615	1451	1525

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR 3	0336	0405	1705	1734
7	0328	0357	1710	1740
11	0320	0350	1716	1746
15	0312	0342	1721	1752
19	0304	0335	1727	1758
23	0256	0328	1733	1804
27	0249	0321	1738	1810

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP 3	0323	0352	1710	1739
7	0328	0358	1702	1731
11	0334	0403	1654	1723
15	0339	0408	1646	1715
19	0344	0413	1637	1706
23	0350	0419	1629	1658
27	0355	0424	1621	1650

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN 1	0542	0616	1455	1528
5	0542	0615	1459	1532
9	0541	0614	1503	1536
13	0540	0613	1508	1541
17	0538	0610	1513	1546
21	0535	0607	1519	1551
25	0531	0603	1525	1556
29	0527	0559	1531	1602

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY 1	0242	0314	1743	1816
5	0235	0308	1749	1822
9	0229	0302	1754	1828
13	0223	0257	1759	1833
17	0217	0252	1804	1839
21	0212	0247	1809	1844
25	0208	0244	1814	1850
29	0204	0240	1818	1854

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT 1	0401	0429	1613	1642
5	0406	0435	1605	1634
9	0411	0440	1558	1626
13	0417	0446	1550	1619
17	0422	0451	1543	1612
21	0428	0457	1535	1605
25	0433	0503	1528	1558
29	0439	0509	1522	1552

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB 2	0523	0554	1537	1608
6	0518	0548	1543	1614
10	0512	0542	1549	1619
14	0506	0536	1555	1625
18	0500	0530	1602	1631
22	0453	0523	1608	1637
26	0446	0515	1614	1643

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUN 2	0201	0238	1822	1859
6	0158	0236	1825	1902
10	0157	0234	1828	1905
14	0156	0234	1830	1908
18	0156	0234	1832	1910
22	0157	0235	1833	1911
26	0158	0236	1833	1911
30	0200	0238	1833	1911

OSORHEI / DOGARU - LRDD  
470330N 0220442E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL 1	0201	0238	1832	1910
5	0204	0241	1831	1908
9	0207	0244	1829	1906
13	0211	0248	1826	1903
17	0216	0252	1823	1859
21	0221	0256	1819	1855
25	0226	0301	1815	1850
29	0231	0305	1810	1844

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV 2	0444	0514	1515	1546
6	0450	0520	1510	1540
10	0455	0526	1504	1535
14	0501	0532	1459	1531
18	0506	0538	1455	1527
22	0511	0543	1452	1524
26	0516	0549	1449	1521
30	0521	0554	1446	1519

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR 2	0439	0508	1619	1648
6	0431	0500	1625	1654
10	0423	0452	1631	1659
14	0416	0444	1636	1705
18	0408	0436	1642	1711
22	0400	0428	1648	1717
26	0351	0420	1653	1722
30	0343	0413	1659	1728

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG 2	0237	0310	1805	1838
6	0242	0315	1759	1832
10	0248	0321	1752	1825
14	0254	0326	1746	1818
18	0300	0331	1739	1810
22	0305	0336	1732	1803
26	0311	0341	1724	1755
30	0317	0347	1717	1747

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC 4	0525	0558	1445	1518
8	0529	0603	1444	1517
12	0533	0606	1444	1517
16	0536	0609	1444	1518
20	0538	0612	1446	1519
24	0540	0614	1448	1522
28	0541	0615	1451	1524

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR 3	0335	0405	1704	1734
7	0327	0357	1710	1740
11	0319	0349	1715	1745
15	0311	0342	1721	1751
19	0303	0334	1726	1757
23	0256	0327	1732	1803
27	0248	0320	1738	1809

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP 3	0322	0352	1709	1739
7	0328	0357	1701	1731
11	0333	0402	1653	1722
15	0339	0408	1645	1714
19	0344	0413	1637	1706
23	0349	0418	1629	1658
27	0355	0423	1621	1650

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN 1	0542	0615	1454	1528
5	0542	0615	1458	1531
9	0541	0614	1503	1536
13	0539	0612	1508	1540
17	0537	0610	1513	1545
21	0534	0606	1519	1551
25	0531	0603	1524	1556
29	0527	0558	1530	1602

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY 1	0241	0314	1743	1815
5	0235	0307	1748	1821
9	0228	0302	1754	1827
13	0222	0256	1759	1833
17	0217	0251	1804	1839
21	0212	0247	1809	1844
25	0207	0243	1813	1849
29	0204	0240	1817	1854

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT 1	0400	0429	1613	1642
5	0405	0434	1605	1634
9	0411	0440	1557	1626
13	0416	0445	1549	1618
17	0422	0451	1542	1611
21	0427	0457	1535	1604
25	0433	0502	1528	1558
29	0438	0508	1521	1551

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB 2	0522	0553	1537	1607
6	0517	0548	1543	1613
10	0512	0542	1549	1619
14	0506	0536	1555	1625
18	0500	0529	1601	1631
22	0453	0522	1607	1636
26	0446	0515	1613	1642

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUN 2	0200	0237	1821	1858
6	0158	0235	1824	1902
10	0156	0234	1827	1905
14	0156	0233	1830	1907
18	0155	0233	1831	1909
22	0156	0234	1832	1910
26	0158	0236	1833	1911
30	0200	0238	1832	1910



PITESTI / Geamana - LRPT  
444903N 0245352E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL 1	0201	0236	1811	1847
5	0204	0239	1810	1845
9	0207	0242	1809	1843
13	0211	0245	1806	1841
17	0215	0249	1804	1837
21	0219	0253	1800	1833
25	0224	0257	1756	1829
29	0229	0301	1752	1824

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV 2	0429	0458	1509	1538
6	0434	0504	1504	1533
10	0439	0509	1459	1528
14	0444	0514	1454	1524
18	0449	0520	1451	1521
22	0454	0525	1447	1518
26	0459	0530	1445	1515
30	0503	0535	1443	1514

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR 2	0426	0454	1610	1638
6	0419	0447	1615	1643
10	0412	0440	1620	1648
14	0405	0433	1626	1653
18	0358	0425	1631	1658
22	0350	0418	1636	1704
26	0342	0410	1641	1709
30	0335	0403	1646	1714

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG 2	0234	0306	1747	1818
6	0239	0310	1741	1813
10	0244	0315	1736	1806
14	0249	0320	1729	1800
18	0255	0324	1723	1753
22	0300	0329	1716	1746
26	0305	0334	1709	1739
30	0310	0339	1702	1731

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC 4	0508	0539	1441	1513
8	0511	0543	1441	1512
12	0515	0547	1441	1513
16	0518	0550	1442	1513
20	0520	0552	1443	1515
24	0522	0554	1445	1517
28	0523	0555	1448	1520

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR 3	0327	0355	1651	1719
7	0320	0348	1656	1724
11	0312	0341	1701	1730
15	0305	0334	1706	1735
19	0258	0327	1711	1741
23	0251	0320	1716	1746
27	0244	0314	1721	1751

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP 3	0315	0343	1655	1724
7	0320	0348	1648	1716
11	0325	0353	1640	1708
15	0330	0358	1633	1700
19	0335	0402	1625	1653
23	0339	0407	1617	1645
27	0344	0412	1610	1637

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN 1	0524	0556	1451	1523
5	0524	0556	1455	1527
9	0523	0555	1459	1531
13	0522	0553	1504	1535
17	0520	0551	1509	1540
21	0518	0548	1514	1545
25	0515	0545	1520	1550
29	0511	0541	1525	1555

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY 1	0237	0308	1726	1757
5	0231	0302	1731	1802
9	0225	0257	1736	1808
13	0220	0252	1741	1813
17	0215	0247	1745	1818
21	0210	0243	1750	1823
25	0206	0240	1754	1827
29	0203	0237	1758	1832

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT 1	0349	0417	1602	1630
5	0354	0422	1555	1623
9	0359	0427	1548	1615
13	0404	0432	1541	1608
17	0409	0437	1534	1602
21	0414	0442	1527	1555
25	0419	0447	1521	1549
29	0424	0453	1515	1543

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB 2	0507	0536	1531	1600
6	0502	0531	1536	1606
10	0457	0526	1542	1611
14	0452	0520	1548	1616
18	0446	0514	1553	1622
22	0440	0508	1559	1627
26	0433	0501	1604	1632

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUN 2	0200	0235	1801	1836
6	0158	0233	1804	1839
10	0157	0232	1807	1842
14	0156	0232	1809	1844
18	0156	0232	1810	1846
22	0157	0232	1811	1847
26	0158	0234	1812	1847
30	0200	0236	1812	1847

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

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL 1	0156	0232	1808	1843
5	0159	0234	1807	1842
9	0202	0237	1805	1840
13	0206	0240	1803	1837
17	0210	0244	1800	1833
21	0215	0248	1756	1830
25	0219	0252	1752	1825
29	0224	0257	1748	1820

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV 2	0425	0454	1504	1533
6	0430	0500	1459	1528
10	0435	0505	1454	1524
14	0440	0510	1450	1520
18	0445	0516	1446	1516
22	0450	0521	1443	1513
26	0455	0526	1440	1511
30	0459	0531	1438	1509

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR 2	0422	0450	1605	1633
6	0415	0443	1611	1639
10	0408	0436	1616	1644
14	0401	0428	1621	1649
18	0353	0421	1626	1654
22	0346	0413	1632	1659
26	0338	0406	1637	1705
30	0330	0358	1642	1710

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG 2	0229	0301	1743	1815
6	0234	0306	1737	1809
10	0240	0310	1732	1802
14	0245	0315	1725	1756
18	0250	0320	1719	1749
22	0255	0325	1712	1742
26	0300	0329	1705	1735
30	0305	0334	1658	1727

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC 4	0504	0535	1437	1508
8	0507	0539	1436	1508
12	0511	0543	1436	1508
16	0514	0546	1437	1509
20	0516	0548	1438	1510
24	0518	0550	1440	1512
28	0519	0551	1443	1515

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR 3	0323	0351	1647	1715
7	0315	0344	1652	1720
11	0308	0336	1657	1726
15	0300	0329	1702	1731
19	0253	0323	1707	1736
23	0246	0316	1712	1742
27	0239	0309	1717	1747

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP 3	0310	0339	1651	1719
7	0315	0344	1643	1712
11	0320	0348	1636	1704
15	0325	0353	1628	1656
19	0330	0358	1621	1649
23	0335	0403	1613	1641
27	0340	0408	1606	1633

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN 1	0520	0552	1447	1518
5	0520	0552	1450	1522
9	0519	0551	1455	1526
13	0518	0549	1459	1530
17	0516	0547	1504	1535
21	0514	0544	1510	1540
25	0511	0541	1515	1545
29	0507	0537	1521	1550

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY 1	0233	0303	1722	1753
5	0226	0258	1727	1758
9	0221	0252	1732	1804
13	0215	0247	1737	1809
17	0210	0243	1741	1814
21	0206	0239	1746	1819
25	0202	0235	1750	1824
29	0158	0232	1754	1828

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT 1	0345	0412	1558	1626
5	0350	0417	1551	1618
9	0355	0422	1543	1611
13	0400	0428	1536	1604
17	0405	0433	1529	1557
21	0410	0438	1523	1551
25	0415	0443	1516	1545
29	0420	0449	1510	1539

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB 2	0503	0532	1526	1556
6	0458	0527	1532	1601
10	0453	0522	1538	1607
14	0448	0516	1543	1612
18	0442	0510	1549	1617
22	0436	0504	1555	1623
26	0429	0457	1600	1628

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



SATU MARE / Satu Mare - LRSM  
474212N 0225308E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL 1	0154	0232	1832	1910
5	0157	0235	1830	1909
9	0200	0238	1828	1906
13	0205	0242	1826	1903
17	0209	0246	1822	1859
21	0214	0250	1818	1854
25	0220	0255	1814	1849
29	0225	0300	1809	1844

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV 2	0442	0512	1511	1541
6	0447	0519	1505	1536
10	0453	0525	1459	1531
14	0459	0531	1454	1526
18	0504	0536	1450	1522
22	0510	0542	1446	1519
26	0515	0548	1443	1516
30	0519	0553	1441	1514

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR 2	0436	0505	1615	1645
6	0428	0457	1621	1650
10	0420	0449	1627	1656
14	0412	0441	1633	1702
18	0404	0433	1639	1708
22	0356	0425	1645	1714
26	0348	0417	1650	1720
30	0339	0409	1656	1726

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG 2	0231	0305	1803	1838
6	0237	0310	1757	1831
10	0243	0316	1751	1824
14	0249	0321	1744	1817
18	0255	0326	1737	1809
22	0300	0332	1730	1801
26	0306	0337	1722	1753
30	0312	0343	1715	1745

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC 4	0524	0557	1439	1513
8	0528	0602	1438	1512
12	0532	0606	1438	1512
16	0535	0609	1439	1513
20	0537	0611	1440	1514
24	0539	0613	1442	1516
28	0540	0614	1445	1519

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR 3	0331	0401	1702	1732
7	0323	0353	1707	1737
11	0315	0345	1713	1744
15	0306	0337	1719	1750
19	0258	0330	1724	1756
23	0251	0322	1730	1802
27	0243	0315	1736	1808

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP 3	0318	0348	1707	1737
7	0323	0353	1659	1728
11	0329	0359	1650	1720
15	0335	0404	1642	1712
19	0340	0409	1634	1703
23	0346	0415	1626	1655
27	0351	0420	1617	1647

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN 1	0541	0615	1448	1522
5	0540	0614	1452	1526
9	0540	0613	1457	1531
13	0538	0611	1502	1535
17	0536	0608	1508	1540
21	0533	0605	1513	1546
25	0529	0601	1519	1551
29	0525	0557	1525	1557

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY 1	0236	0309	1741	1814
5	0229	0302	1747	1820
9	0222	0256	1752	1826
13	0216	0251	1758	1832
17	0211	0246	1803	1838
21	0205	0241	1808	1844
25	0201	0237	1812	1849
29	0157	0234	1817	1854

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT 1	0357	0426	1609	1638
5	0402	0431	1601	1630
9	0408	0437	1553	1623
13	0413	0443	1546	1615
17	0419	0449	1538	1608
21	0425	0454	1531	1600
25	0430	0500	1524	1554
29	0436	0506	1517	1547

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB 2	0520	0552	1532	1603
6	0515	0546	1538	1609
10	0510	0540	1544	1615
14	0503	0534	1551	1621
18	0457	0527	1557	1627
22	0450	0520	1603	1633
26	0443	0513	1609	1639

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUN 2	0154	0231	1821	1858
6	0151	0229	1824	1902
10	0149	0228	1827	1905
14	0149	0227	1829	1908
18	0148	0227	1831	1910
22	0149	0228	1832	1911
26	0151	0229	1832	1911
30	0153	0231	1832	1911

SIBIU / Sibiu - LRSM  
454709N 0240508E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL 1	0159	0236	1819	1855
5	0202	0238	1817	1853
9	0206	0241	1816	1851
13	0210	0245	1813	1848
17	0214	0248	1810	1845
21	0218	0253	1807	1841
25	0223	0257	1803	1836
29	0228	0301	1758	1831

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV 2	0434	0503	1510	1540
6	0439	0509	1505	1534
10	0445	0515	1500	1530
14	0450	0520	1455	1525
18	0455	0526	1451	1522
22	0500	0531	1448	1519
26	0505	0536	1445	1516
30	0509	0541	1443	1514

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR 2	0430	0458	1612	1640
6	0423	0451	1618	1646
10	0415	0444	1623	1651
14	0408	0436	1629	1657
18	0400	0428	1634	1702
22	0353	0421	1639	1708
26	0345	0413	1645	1713
30	0337	0405	1650	1718

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG 2	0234	0306	1753	1825
6	0239	0311	1747	1819
10	0244	0316	1741	1813
14	0250	0321	1735	1806
18	0255	0326	1728	1759
22	0301	0331	1721	1751
26	0306	0336	1714	1744
30	0311	0341	1707	1736

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC 4	0514	0546	1441	1513
8	0517	0550	1440	1513
12	0521	0553	1440	1513
16	0524	0556	1441	1514
20	0526	0559	1443	1515
24	0528	0601	1445	1517
28	0529	0602	1448	1520

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR 3	0329	0358	1655	1724
7	0321	0350	1700	1729
11	0314	0343	1706	1735
15	0306	0336	1711	1740
19	0259	0329	1716	1746
23	0251	0322	1721	1752
27	0244	0315	1727	1757

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP 3	0316	0345	1659	1728
7	0322	0350	1652	1721
11	0327	0355	1644	1713
15	0332	0400	1636	1705
19	0337	0405	1628	1657
23	0342	0410	1621	1649
27	0347	0415	1613	1641

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN 1	0530	0602	1451	1523
5	0530	0602	1455	1527
9	0529	0601	1459	1531
13	0528	0600	1504	1536
17	0526	0557	1509	1541
21	0523	0554	1515	1546
25	0520	0551	1520	1551
29	0516	0547	1526	1556

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY 1	0237	0309	1732	1803
5	0231	0303	1737	1809
9	0225	0257	1742	1814
13	0219	0252	1747	1820
17	0214	0248	1752	1825
21	0209	0243	1756	1830
25	0205	0240	1800	1835
29	0202	0237	1804	1839

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT 1	0352	0420	1605	1633
5	0357	0425	1558	1626
9	0402	0431	1550	1618
13	0408	0436	1543	1611
17	0413	0441	1536	1604
21	0418	0447	1529	1558
25	0423	0452	1522	1551
29	0429	0458	1516	1545

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB 2	0512	0542	1532	1602
6	0507	0537	1538	1607
10	0502	0531	1543	1613
14	0456	0525	1549	1618
18	0450	0519	1555	1624
22	0444	0512	1601	1630
26	0437	0505	1607	1635

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



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

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL 1	0140	0218	1818	1856
5	0143	0221	1816	1855
9	0147	0224	1814	1852
13	0151	0228	1812	1849
17	0156	0232	1808	1845
21	0201	0237	1805	1841
25	0206	0241	1800	1835
29	0211	0246	1755	1830

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV 2	0428	0459	1457	1527
6	0434	0505	1451	1522
10	0439	0511	1445	1517
14	0445	0517	1440	1512
18	0450	0522	1436	1508
22	0456	0528	1432	1505
26	0501	0534	1429	1502
30	0506	0539	1427	1500

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR 2	0422	0451	1601	1631
6	0414	0443	1607	1637
10	0406	0435	1613	1642
14	0358	0427	1619	1648
18	0350	0419	1625	1654
22	0342	0411	1631	1700
26	0334	0403	1636	1706
30	0325	0355	1642	1712

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG 2	0217	0251	1749	1824
6	0223	0256	1743	1817
10	0229	0302	1737	1810
14	0235	0307	1730	1803
18	0241	0312	1723	1755
22	0247	0318	1716	1747
26	0252	0323	1708	1739
30	0258	0329	1701	1731

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC 4	0510	0544	1425	1459
8	0514	0548	1424	1458
12	0518	0552	1424	1458
16	0521	0555	1425	1459
20	0523	0557	1426	1500
24	0525	0559	1428	1502
28	0526	0600	1431	1505

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR 3	0317	0347	1648	1718
7	0309	0339	1654	1724
11	0301	0331	1659	1730
15	0253	0323	1705	1736
19	0245	0316	1711	1742
23	0237	0309	1716	1748
27	0229	0302	1722	1754

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP 3	0304	0334	1653	1723
7	0310	0339	1645	1715
11	0315	0345	1637	1706
15	0321	0350	1628	1658
19	0326	0356	1620	1649
23	0332	0401	1612	1641
27	0337	0406	1604	1633

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN 1	0527	0601	1435	1508
5	0527	0600	1439	1512
9	0526	0559	1443	1517
13	0524	0557	1448	1521
17	0522	0555	1454	1526
21	0519	0551	1459	1532
25	0515	0547	1505	1537
29	0511	0543	1512	1543

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY 1	0222	0255	1728	1800
5	0215	0249	1733	1806
9	0209	0243	1739	1812
13	0202	0237	1744	1818
17	0157	0232	1749	1824
21	0152	0228	1754	1830
25	0147	0224	1758	1835
29	0143	0220	1803	1840

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT 1	0343	0412	1555	1625
5	0348	0418	1547	1617
9	0354	0423	1539	1609
13	0359	0429	1532	1601
17	0405	0435	1524	1554
21	0411	0441	1517	1547
25	0416	0446	1510	1540
29	0422	0452	1503	1533

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB 2	0507	0538	1518	1549
6	0501	0532	1524	1555
10	0456	0526	1530	1601
14	0450	0520	1537	1607
18	0443	0513	1543	1613
22	0436	0506	1549	1619
26	0429	0459	1555	1625

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUN 2	0140	0218	1807	1844
6	0137	0216	1810	1848
10	0136	0214	1813	1851
14	0135	0213	1815	1854
18	0135	0214	1817	1856
22	0135	0214	1818	1857
26	0137	0216	1818	1857
30	0139	0218	1818	1857

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

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL 1	0154	0231	1820	1857
5	0157	0234	1819	1856
9	0201	0237	1817	1853
13	0205	0241	1815	1850
17	0209	0245	1811	1847
21	0214	0249	1808	1843
25	0219	0253	1803	1838
29	0224	0258	1759	1832

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV 2	0434	0504	1507	1537
6	0439	0509	1502	1532
10	0445	0515	1456	1527
14	0450	0521	1452	1523
18	0455	0526	1448	1519
22	0500	0532	1444	1516
26	0505	0537	1441	1513
30	0510	0542	1439	1511

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR 2	0429	0458	1610	1639
6	0422	0450	1616	1645
10	0414	0443	1622	1650
14	0406	0435	1627	1656
18	0359	0427	1633	1701
22	0351	0419	1638	1707
26	0343	0411	1644	1712
30	0335	0404	1649	1718

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG 2	0230	0303	1753	1826
6	0235	0308	1748	1820
10	0241	0313	1742	1814
14	0246	0318	1735	1807
18	0252	0323	1728	1759
22	0258	0328	1721	1752
26	0303	0333	1714	1744
30	0309	0338	1707	1736

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC 4	0514	0547	1437	1510
8	0518	0551	1437	1509
12	0522	0555	1437	1510
16	0525	0558	1437	1510
20	0527	0600	1439	1512
24	0529	0602	1441	1514
28	0530	0603	1444	1517

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR 3	0327	0356	1654	1724
7	0319	0348	1700	1729
11	0311	0341	1705	1735
15	0303	0333	1711	1741
19	0256	0326	1716	1746
23	0248	0319	1721	1752
27	0241	0312	1727	1758

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP 3	0314	0343	1659	1728
7	0319	0348	1651	1720
11	0325	0354	1643	1712
15	0330	0359	1635	1704
19	0335	0404	1627	1656
23	0340	0409	1619	1648
27	0346	0414	1611	1640

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN 1	0531	0604	1447	1520
5	0531	0603	1451	1524
9	0530	0602	1456	1528
13	0528	0601	1500	1533
17	0526	0558	1506	1537
21	0524	0555	1511	1543
25	0520	0551	1517	1548
29	0516	0547	1523	1553

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY 1	0234	0306	1732	1804
5	0227	0300	1737	1810
9	0221	0254	1743	1815
13	0215	0249	1748	1821
17	0210	0244	1753	1827
21	0205	0240	1757	1832
25	0201	0236	1802	1837
29	0157	0233	1806	1841

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT 1	0351	0419	1604	1632
5	0356	0425	1556	1624
9	0401	0430	1548	1617
13	0407	0435	1541	1609
17	0412	0441	1533	1602
21	0417	0446	1526	1556
25	0423	0452	1520	1549
29	0428	0458	1513	1543

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB 2	0512	0542	1529	1559
6	0507	0537	1535	1605
10	0502	0531	1541	1611
14	0456	0525	1547	1616
18	0450	0519	1553	1622
22	0443	0512	1559	1628
26	0436	0505	1604	1633

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUN 2	0154	0230	1809	1846
6	0152	0228	1813	1849
10	0150	0227	1815	1852
14	0149	0227	1818	1855
18	0149	0227	1819	1857
22	0150	0227	1820	1858
26	0152	0229	1821	1858
30	0154	0231	1820	1857



TIMISOARA / Traian Vuia - LRTR  
454835N 0212016E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL	1	0210	0246	1830
	5	0213	0249	1829
	9	0217	0252	1827
	13	0220	0256	1824
	17	0225	0259	1821
	21	0229	0303	1818
	25	0234	0308	1814
	29	0239	0312	1809

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV	2	0445	0514	1521
	6	0450	0520	1515
	10	0456	0526	1510
	14	0501	0531	1506
	18	0506	0537	1502
	22	0511	0542	1458
	26	0516	0547	1456
	30	0520	0552	1454

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR	2	0441	0509	1623
	6	0434	0502	1629
	10	0426	0455	1634
	14	0419	0447	1640
	18	0411	0439	1645
	22	0404	0432	1650
	26	0356	0424	1656
	30	0348	0416	1701

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG	2	0245	0317	1804
	6	0250	0322	1758
	10	0255	0327	1752
	14	0301	0332	1746
	18	0306	0337	1739
	22	0312	0342	1732
	26	0317	0347	1725
	30	0322	0352	1718

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC	4	0525	0557	1452
	8	0529	0601	1451
	12	0532	0604	1451
	16	0535	0608	1452
	20	0537	0610	1454
	24	0539	0612	1456
	28	0541	0613	1458

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR	3	0340	0409	1706
	7	0332	0401	1711
	11	0325	0354	1717
	15	0317	0347	1722
	19	0309	0339	1727
	23	0302	0333	1732
	27	0255	0326	1738

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP	3	0327	0356	1710
	7	0333	0401	1703
	11	0338	0406	1655
	15	0343	0411	1647
	19	0348	0416	1639
	23	0353	0421	1632
	27	0358	0426	1624

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN	1	0541	0614	1502
	5	0541	0613	1506
	9	0540	0612	1510
	13	0539	0611	1515
	17	0537	0608	1520
	21	0534	0605	1525
	25	0531	0602	1531
	29	0527	0558	1537

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY	1	0248	0320	1743
	5	0242	0314	1748
	9	0236	0308	1753
	13	0230	0303	1758
	17	0225	0258	1803
	21	0220	0254	1807
	25	0216	0251	1811
	29	0213	0248	1815

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT	1	0403	0431	1616
	5	0408	0436	1609
	9	0413	0442	1601
	13	0419	0447	1554
	17	0424	0452	1547
	21	0429	0458	1540
	25	0434	0503	1533
	29	0440	0509	1527

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB	2	0523	0553	1543
	6	0518	0548	1549
	10	0513	0542	1554
	14	0507	0536	1600
	18	0501	0530	1606
	22	0455	0523	1612
	26	0448	0516	1618

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUN	2	0210	0245	1819
	6	0208	0243	1822
	10	0206	0242	1825
	14	0205	0242	1827
	18	0205	0242	1829
	22	0206	0243	1830
	26	0207	0244	1830
	30	0210	0246	1830

TULCEA / Delta Dunarii - LRTR  
450346N 0284252E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL	1	0145	0220	1757
	5	0147	0223	1756
	9	0151	0225	1754
	13	0154	0229	1752
	17	0159	0233	1749
	21	0203	0237	1746
	25	0208	0241	1742
	29	0213	0245	1737

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV	2	0414	0443	1453
	6	0419	0449	1448
	10	0425	0454	1443
	14	0430	0500	1438
	18	0435	0505	1435
	22	0440	0510	1431
	26	0444	0515	1429
	30	0449	0520	1427

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR	2	0411	0439	1554
	6	0404	0432	1600
	10	0357	0425	1605
	14	0350	0417	1610
	18	0342	0410	1615
	22	0335	0402	1621
	26	0327	0355	1626
	30	0319	0347	1631

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG	2	0218	0250	1732
	6	0223	0254	1727
	10	0228	0259	1721
	14	0233	0304	1715
	18	0239	0309	1708
	22	0244	0313	1702
	26	0249	0318	1655
	30	0254	0323	1647

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC	4	0453	0525	1425
	8	0457	0529	1425
	12	0500	0532	1425
	16	0503	0535	1425
	20	0506	0538	1427
	24	0508	0540	1429
	28	0509	0541	1432

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR	3	0312	0340	1636
	7	0304	0333	1641
	11	0256	0325	1646
	15	0249	0318	1651
	19	0242	0311	1656
	23	0235	0305	1701
	27	0228	0258	1706

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP	3	0259	0328	1640
	7	0304	0333	1633
	11	0309	0337	1625
	15	0314	0342	1617
	19	0319	0347	1610
	23	0324	0352	1602
	27	0329	0357	1555

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN	1	0509	0541	1435
	5	0509	0541	1439
	9	0509	0540	1443
	13	0508	0539	1448
	17	0506	0537	1453
	21	0503	0534	1458
	25	0500	0530	1504
	29	0456	0526	1509

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY	1	0221	0252	1711
	5	0215	0246	1716
	9	0209	0241	1721
	13	0204	0236	1726
	17	0159	0231	1731
	21	0154	0227	1735
	25	0150	0224	1739
	29	0147	0221	1743

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT	1	0334	0402	1547
	5	0339	0406	1540
	9	0344	0412	1532
	13	0349	0417	1525
	17	0354	0422	1518
	21	0359	0427	1511
	25	0404	0432	1505
	29	0409	0438	1459

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB	2	0452	0522	1515
	6	0447	0517	1521
	10	0442	0511	1526
	14	0437	0505	1532
	18	0431	0459	1538
	22	0425	0453	1543
	26	0418	0446	1549

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUN	2	0144	0219	1747
	6	0142	0217	1750
	10	0140	0216	1752
	14	0140	0215	1755
	18	0140	0215	1756
	22	0140	0216	1757
	26	0142	0217	1758
	30	0144	0219	1757



TUZLA / Tuzla - LRTZ  
435903N 0283635E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO	
JUL	1	0150	0225	1753	1828
	5	0153	0227	1752	1826
	9	0156	0230	1751	1825
	13	0200	0233	1749	1822
	17	0204	0237	1746	1819
	21	0208	0241	1743	1815
	25	0212	0245	1739	1811
	29	0217	0249	1734	1806

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO	
NOV	2	0413	0442	1456	1524
	6	0418	0447	1451	1519
	10	0423	0452	1446	1515
	14	0428	0457	1442	1511
	18	0433	0503	1438	1508
	22	0438	0508	1435	1505
	26	0442	0512	1432	1503
	30	0446	0517	1430	1501

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO	
MAR	2	0411	0439	1556	1623
	6	0404	0432	1601	1628
	10	0357	0425	1606	1633
	14	0350	0418	1611	1638
	18	0343	0410	1616	1643
	22	0336	0403	1621	1648
	26	0328	0356	1626	1653
	30	0321	0348	1631	1658

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO	
AUG	2	0222	0253	1730	1801
	6	0227	0258	1724	1755
	10	0232	0302	1719	1749
	14	0237	0307	1713	1743
	18	0242	0311	1707	1736
	22	0247	0316	1700	1729
	26	0252	0320	1653	1722
	30	0257	0325	1646	1715

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO	
DEC	4	0451	0521	1429	1500
	8	0454	0525	1429	1500
	12	0458	0529	1429	1500
	16	0501	0532	1430	1501
	20	0503	0534	1431	1502
	24	0505	0536	1433	1505
	28	0506	0537	1436	1507

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO	
APR	3	0313	0341	1635	1703
	7	0306	0334	1640	1708
	11	0259	0327	1645	1713
	15	0252	0320	1650	1719
	19	0245	0314	1655	1724
	23	0238	0307	1700	1729
	27	0231	0301	1705	1734

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO	
SEP	3	0301	0329	1639	1707
	7	0306	0334	1632	1700
	11	0311	0339	1625	1652
	15	0316	0343	1617	1645
	19	0320	0348	1610	1637
	23	0325	0352	1602	1630
	27	0330	0357	1555	1622

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO	
JAN	1	0507	0538	1439	1510
	5	0507	0538	1443	1514
	9	0506	0537	1447	1518
	13	0505	0536	1452	1522
	17	0503	0534	1457	1527
	21	0501	0531	1502	1532
	25	0458	0528	1507	1537
	29	0455	0524	1512	1542

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO	
MAY	1	0225	0255	1709	1739
	5	0219	0249	1714	1745
	9	0213	0244	1719	1750
	13	0208	0240	1723	1755
	17	0203	0235	1728	1800
	21	0159	0231	1732	1804
	25	0155	0228	1736	1809
	29	0152	0225	1740	1813

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO	
OCT	1	0334	0402	1548	1615
	5	0339	0406	1541	1608
	9	0344	0411	1533	1601
	13	0349	0416	1527	1554
	17	0353	0421	1520	1547
	21	0358	0426	1513	1541
	25	0403	0431	1507	1535
	29	0408	0436	1501	1529

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO	
FEB	2	0451	0520	1518	1547
	6	0446	0515	1523	1552
	10	0441	0510	1529	1557
	14	0436	0504	1534	1603
	18	0430	0458	1540	1608
	22	0424	0452	1545	1613
	26	0418	0445	1550	1618

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO	
JUN	2	0149	0223	1743	1817
	6	0147	0221	1746	1820
	10	0146	0220	1749	1823
	14	0145	0220	1751	1825
	18	0146	0220	1752	1827
	22	0146	0221	1753	1828
	26	0148	0222	1754	1828
	30	0150	0224	1754	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	
<b>Instrument Approach Chart - ICAO* (IAC)</b>		<b>ARAD/Arad</b>		
	1:500 000	LRAR ILS RWY 27 A/B		
	1:500 000	LRAR ILS RWY 27 C/D		
	1:500 000	LRAR VOR RWY 09		
	1:500 000	LRAR VOR RWY 27 A/B		
	1:500 000	LRAR VOR RWY 27 C/D		
			<b>BACĂU/George Enescu</b>	
	1:500 000	LRBC ILS RWY 34		
	1:500 000	LRBC NDB RWY 34		
	1:500 000	LRBC NDB RWY 16		
			<b>BAIA MARE/Maramureș</b>	
	1:500 000	LRBM ILS Y RWY 09 A, B		
	1:500 000	LRBM ILS Z RWY 09 C, D		
	1:500 000	LRBM RNP RWY 09		
	1:500 000	LRBM NDB W RWY 09 A, B		
	1:500 000	LRBM NDB X RWY 09 C, D		
	1:500 000	LRBM NDB Y RWY 09 A, B		
	1:500 000	LRBM NDB Z RWY 09 C, D		
			<b>BRAȘOV/Brașov-Ghimbav</b>	
	1:500 000	LRBV ILS RWY 21		
	1:500 000	LRBV RNP Z RWY 03		
			<b>BUCUREȘTI/Băneasa-Aurel Vlaicu</b>	
	1:500 000	LRBS ILS RWY 07 A/B		
	1:500 000	LRBS ILS RWY 07 C/D		
	1:500 000	LRBS ILS RWY 25 A/B		
	1:500 000	LRBS ILS RWY 25 C/D		
	1:500 000	LRBS NDB RWY 07 A/B		
	1:500 000	LRBS NDB RWY 07 C/D		
	1:500 000	LRBS NDB RWY 25 A/B		
	1:500 000	LRBS NDB RWY 25 C/D		
			<b>BUCUREȘTI/Henri Coandă</b>	
	1:500 000	LROP ILS RWY 08R		
	1:500 000	LROP ILS RWY 08L		
	1:500 000	LROP ILS RWY 26R		
	1:500 000	LROP ILS RWY 26L		
	1:500 000	LROP NDB RWY 08R		
	1:500 000	LROP NDB RWY 08L		
	1:500 000	LROP NDB RWY 26R		
	1:500 000	LROP NDB RWY 26L		
			<b>CLUJ-NAPOCA/Avram Iancu</b>	
	1:500 000	LRCL ILS RWY 25		
	1:500 000	LRCL RNAV (GNSS) RWY 07		
	1:500 000	LRCL RNAV (GNSS) RWY 25		
	1:500 000	LRCL VOR RWY 07		
			<b>CONSTANȚA/Mihail Kogălniceanu - Constanța</b>	
	1:500 000	LRCK ILS RWY 36		
	1:500 000	LRCK RNP RWY 18		
	1:500 000	LRCK RNP RWY 36		
	1:500 000	LRCK VOR RWY 18		
	1:500 000	LRCK VOR RWY 36		
			<b>CRAIOVA/Craiova</b>	
	1:500 000	LRCV ILS Z RWY 26		
	1:500 000	LRCV ILS Y RWY 26		
	1:500 000	LRCV RNP RWY 08		
	1:500 000	LRCV RNP RWY 26		
	1:500 000	LRCV VOR Z RWY 26		
	1:500 000	LRCV VOR Y RWY 26		
1:500 000	LRCV VOR Z RWY 08			
1:500 000	LRCV VOR Y RWY 08			
		<b>IAȘI/Iași</b>		
1:500 000	LRIA ILS Z RWY 14			
1:500 000	LRIA ILS Y RWY 14			
1:500 000	LRIA RNP 14			
1:500 000	LRIA RNP 32			
1:500 000	LRIA NDB Z RWY 14			
1:500 000	LRIA NDB Y RWY 14			
1:500 000	LRIA NDB Z RWY 32			
1:500 000	LRIA NDB Y RWY 32			

1	2	3	4	
<b>Instrument Approach Chart - ICAO* (IAC)</b>	1:500 000	<b>ORADEA/Oradea</b> LROD RNP RWY 19		
	1:500 000	LROD NDB Y RWY 19 A/B		
	1:500 000	LROD NDB Z RWY 19 C/D		
		<b>SATU MARE/Satu Mare</b>		
	1:500 000	LRSB ILS RWY 19 A/B		
	1:500 000	LRSB ILS RWY 19 C/D		
	1:500 000	LRSB VOR RWY 19 A/B		
	1:500 000	LRSB VOR RWY 19 C/D		
	1:500 000	LRSB VOR RWY 01		
		<b>SIBIU/Sibiu</b>		
	1:500 000	LRSB ILS RWY 27		
	1:500 000	LRSB NDB RWY 09		
		<b>SUCEAVA/Ştefan Cel Mare-Suceava</b>		
	1:500 000	LRSV ILS or LOC Z RWY 34		
	1:500 000	LRSV ILS or LOC Y RWY 34		
	1:500 000	LRSV RNP RWY 16		
	1:500 000	LRSV RNP RWY 34		
	1:500 000	LRSV VOR Z RWY 16		
	1:500 000	LRSV VOR Y RWY 16		
	1:500 000	LRSV VOR Z RWY 34		
	1:500 000	LRSV VOR Y RWY 34		
		<b>TÂRGU MUREŞ/Transilvania-Târgu Mureş</b>		
	1:500 000	LRTM ILS RWY 07 A/B		
	1:500 000	LRTM ILS RWY 07 C/D		
	1:500 000	LRTM NDB RWY 07 A/B		
	1:500 000	LRTM NDB RWY 07 C/D		
	1:500 000	LRTM NDB RWY 25 A/B		
	1:500 000	LRTM NDB RWY 25 C/D		
		<b>TIMIŞOARA/Tarian Vuia</b>		
	1:500 000	LRTR ILS RWY 11 A, B		
	1:500 000	LRTR ILS RWY 11 C, D		
	1:500 000	LRTR ILS RWY 29 A, B		
	1:500 000	LRTR ILS RWY 29 C, D		
	1:500 000	LRTR NDB RWY 11 A, B		
	1:500 000	LRTR NDB RWY 11 C, D		
	1:500 000	LRTR NDB RWY 29 A, B		
	1:500 000	LRTR NDB RWY 29 C, D		
		<b>TULCEA/Delta Dunării</b>		
	1:500 000	LRTC ILS RWY 34		
	1:500 000	LRTC VOR RWY 34		
	<b>Instrument Approach Chart* (IAC)</b>	1:500 000	<b>BRAŞOV/Braşov-Ghimbav</b> LRBV RNP RWY 03 Contingency	
	<b>Aerodrome Chart - ICAO* (AC)</b>	1:7 000	<b>ARAD/Arad</b>	
		1:20 000	<b>ARAD/Charlie-Bravo Şiria</b>	
		1:15 000	<b>BACĂU/George Enescu</b>	
		1:5 000	<b>BAIA MARE/Maramureş</b>	
		1:20 000	<b>BISTRIŢA/Bistriţa</b>	
		1:5 000	<b>BRAŞOV/Braşov-Ghimbav</b>	
		<b>BRAŞOV/Sânpetru</b>		
		<b>BUCUREŞTI/Băneasa-Aurel Vlaicu</b>		
		<b>BUCUREŞTI/Henri Coandă</b>		
	1:10 000	<b>CARANSEBEŞ/Banat-Caransebeş</b>		
	1:5 000	<b>CISNĂDIE/Măgura</b>		
	1:6 000	<b>CLINCENI/Clinceni</b>		
	1:15 000	<b>CLUJ NAPOCA/Avram Iancu</b>		
	1:20 000	<b>CONSTANŢA/Mihail Kogălniceanu-Constanţa</b>		
		<b>CRAIOVA/Craiova</b>		
	1:5 000	<b>CRAIOVA/Craiova-Sud</b>		
	1:10 000	<b>DEVA/Săuleşti-Constantin Manolache</b>		
	1:5 000	<b>DEZMIR/Dezmir</b>		
	1:8 000	<b>GHEORGHENI/Remetea</b>		
	1:2 500	<b>GRADIŞTEA/Grădiştea</b>		
	1:15 000	<b>IAŞI/Iaşi</b>		
	1:4 000	<b>IAŞI/Iaşi-Sud</b>		
		<b>ORADEA/Oradea</b>		
	1:5 000	<b>PITEŞTI/Geamăna</b>		
	1:5 000	<b>PLOIEŞTI/Gheorghe Valentin Bibescu-Ploieşti</b>		
		<b>SATU-MARE/Satu-Mare</b>		
		<b>SIBIU/Sibiu</b>		
	1:20 000	<b>SUCEAVA/Ştefan cel Mare-Suceava</b>		
	1:15 000	<b>TÂRGU MUREŞ/Transilvania-Târgu Mureş</b>		
		<b>TIMIŞOARA/Traian Vuia</b>		
	1:20 000	<b>TULCEA/Delta Dunării</b>		

1	2	3	4
<b>Standard Departure Chart - Instrument - ICAO* (SID)</b>		<b>ARAD/Arad</b> LRAR RWY 09 LRAR RWY 27 <b>BAIA MARE/Maramureş</b> 1:500 000 LRBM RWY 27 <b>BRAŞOV/Braşov-Ghimbav</b> 1:500 000 LRBV RWY 21 1:500 000 LRBV RWY 03 <b>BUCUREŞTI/Băneasa-Aurel Vlaicu</b> LRBS RWY 07 LRBS RWY 25 <b>BUCUREŞTI/Henri Coandă</b> LROP RWYs 08L/R LROP RWYs 26L/R <b>CLUJ-NAPOCA/Avram Iancu</b> LRCL RWY 07/25 <b>CONSTANŢA/Mihail Kogălniceanu - Constanţa</b> LRCK RWY 18 LRCK RWY 36 <b>CRAIOVA/Craiova</b> 1:500 000 LRCV RWY 26 1:500 000 LRCV RWY 08 <b>IAŞI/Iaşi</b> 1:500 000 LRIA RWY 14 1:500 000 LRIA RWY 32 <b>SIBIU/Sibiu</b> LRSB RWY 09 LRSB RWY 27 <b>SUCEAVA/Ştefan Cel Mare-Suceava</b> 1:500 000 LRSV RWY 16 1:500 000 LRSV RWY 34 <b>TÂRGU MUREŞ/Transilvania - Târgu Mureş</b> LRTM RWY 07 LRTM RWY 25 <b>TIMIŞOARA/Traian Vuia-Timişoara</b> LRTR RWY 11 LRTR RWY 29	
<b>Standard Arrival Chart - Instrument - ICAO* (STAR)</b>		<b>ARAD/Arad</b> LRAR RWY 09 LRAR RWY 27 1:500 000 <b>BACĂU/George Enescu</b> LRBC RWY 34 1:500 000 LRBC RWY 16 <b>BUCUREŞTI/Băneasa-Aurel Vlaicu</b> LRBS RWY 07 LRBS RWY 25 <b>BUCUREŞTI/Henri Coandă</b> LROP RWYs 08L/R LROP RWYs 26L/R <b>CLUJ-NAPOCA/Avram Iancu</b> LRCL RWY 07 LRCL RWY 25 <b>CONSTANŢA/Mihail Kogălniceanu - Constanţa</b> LRCK RWY 18 LRCK RWY 36 <b>SIBIU/Sibiu</b> LRSB RWY 27 <b>TÂRGU MUREŞ/Transilvania - Târgu Mureş</b> LRTM RWY 07/25 <b>TIMIŞOARA/Traian Vuia - Timişoara</b> LRTR RWY 11 LRTR RWY 29	
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Topolog	42 eolian power plants	445420N 0282137E	1585/492	Red lights	NIL
Mihail Kogalniceanu	88 eolian power plants	443349N 0274609E	836/574	Red lights	
Casimcea	15 eolian power plants	444524N 0281932E	1295/490	Red lights	
Casimcea	27 eolian power plants	444649N 0281416E	1152/610	Red lights	
Mihai Bravu	3 eolian power plants	445625N 0283751E	874/443	Red lights	
Pogoanele	4 eolian power plants	445619N 0265809E	723/492	Red lights	
Stejaru	17 eolian power plants	444658N 0283334E	1373/489	Red lights	
Albesti	14 eolian power plants	463244N 0275458E	1537/476	Red lights	
Baleni	20 eolian power plants	454846N 0274738E	1115/491	Red lights	
Valea Nucarilor	2 eolian power plants	450434N 0285344E	790/328	Red lights	
Bestepe	3 eolian power plants	450332N 0285952E	859/481	Red lights	
Cerna	7 eolian power plants	450422N 0282027E	1270/491	Red lights	
Somova	1 eolian power plant	451050N 0283559E	1004/492	Red lights	
Vulturu	1 anemometric tower	443731N 0281429E	909/344	Red lights	
Ortisoara	Antenna	455801N 0211258E	821/386	Red lights	
Ortisoara	Antenna	455803N 0211254E	819/383	Red lights	
LRBC_388	ANTENNA	463618N 0265546E	1129/501	MARKED/LGTD R	
LRBC_1036	STACK	463148N 0265617E	1229/748	NIL	
LRBC_1037	STACK	463149N 0265620E	1207/726	NIL	
LRBC_1962	ANTENNA	464521N 0265053E	1152/430	MARKED/LGTD R	
LRBC_1964	ANTENNA	464448N 0265139E	1057/352	MARKED/LGTD R	
LRBC_1965	ANTENNA	464500N 0265139E	1060/355	MARKED/LGTD R	
LRBC_1966	ANTENNA	464503N 0265136E	1063/355	MARKED/LGTD R	
LRBC_1967	ANTENNA	464519N 0265119E	1074/352	MARKED/LGTD R	
LRBC_1968	ANTENNA	464516N 0265115E	1075/350	MARKED/LGTD R	
LRBC_1969	ANTENNA	464512N 0265112E	1070/348	MARKED/LGTD R	
LRBC_1970	ANTENNA	464508N 0265110E	1071/356	MARKED/LGTD R	
562_LRBV	ANTENNA	454522N 0253627E	2450/808	NIL	
563_LRBV	ANTENNA	454513N 0253625E	2451/810	NIL	
564_LRBV	ANTENNA	454510N 0253630E	2069/425	NIL	
612_LRBV	CHIMNEY	453944N 0253849E	2778/910	NIL	
546_LRBV	ANTENNA	452537N 0252906E	8501/332	NIL	
LRIA_1163	STACK	470857N 0273618E	460/328	Red lights	
LRIA_4198	STACK	470850N 0274301E	660/540	NIL	
LRIA_4248	ANTENNA	470510N 0273848E	1834/626	Red lights	
LRIA_4448	ANTENNA	471054N 0272723E	619/470	Red lights	
LRIA_4449	ANTENNA	471056N 0272728E	619/470	Red lights	
LRIA_4450	WINDMILL	465323N 0274005E	1562/484	Red lights	
LRIA_4451	WINDMILL	465323N 0273954E	1564/484	Red lights	
LRIA_4785	WINDMILL	471309N 0264834E	1588/673	Red lights	
LRIA_4786	WINDMILL	471331N 0264850E	1651/673	Red lights	
LRIA_4787	WINDMILL	471427N 0264832E	1690/673	Red lights	
LRIA_4788	WINDMILL	471501N 0264848E	1802/673	Red lights	
LRIA_4789	WINDMILL	471542N 0264842E	1898/673	Red lights	
LRIA_4790	WINDMILL	471550N 0264910E	1867/673	Red lights	
LRIA_4791	WINDMILL	471610N 0265056E	1837/673	Red lights	
LRIA_4792	WINDMILL	471630N 0265118E	1893/673	Red lights	
LRIA_4793	WINDMILL	471703N 0265022E	1869/673	Red lights	
LRIA_4794	WINDMILL	471725N 0265110E	1903/673	Red lights	
LRIA_4811	WINDMILL	464913N 0280413E	1061/489	Red lights	



1	2	3	4	5	6
LRIA_4812	WINDMILL	464856N 0280416E	1033/489	Red lights	NIL
LRIA_4813	WINDMILL	464852N 0280446E	1061/489	Red lights	
LRIA_4814	WINDMILL	464848N 0280508E	1043/489	Red lights	
LRIA_4815	WINDMILL	464837N 0280448E	1006/489	Red lights	
LRIA_4816	WINDMILL	464832N 0280509E	1059/489	Red lights	
LRIA_4817	WINDMILL	464821N 0280503E	1008/489	Red lights	
LRIA_4818	WINDMILL	464820N 0280538E	1035/489	Red lights	
LRIA_4819	WINDMILL	464807N 0280540E	1041/489	Red lights	

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LRMC	AD 3.11	Meteorological information provided .....	AD 3.5-2
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LRMA	AD 3.10	Heliport obstacles.....	AD 3.6-2
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LRMA	AD 3.22	Additional information.....	AD 3.6-4
LRMA	AD 3.23	Charts related to the heliport.....	AD 3.6-4

LRHO	AD 3.1	Heliport location indicator and name .....	AD 3.7-1
LRHO	AD 3.2	Heliport geographical and administrative data.....	AD 3.7-1
LRHO	AD 3.3	Operational hours .....	AD 3.7-1
LRHO	AD 3.4	Handling services and facilities.....	AD 3.7-1
LRHO	AD 3.5	Passenger facilities.....	AD 3.7-1
LRHO	AD 3.6	Rescue and fire fighting services.....	AD 3.7-2
LRHO	AD 3.7	Seasonal availability - clearing.....	AD 3.7-2
LRHO	AD 3.8	Aprons, taxiways and check locations data .....	AD 3.7-2
LRHO	AD 3.9	Markings and markers .....	AD 3.7-2
LRHO	AD 3.10	Heliport obstacles .....	AD 3.7-2
LRHO	AD 3.11	Meteorological information provided.....	AD 3.7-2
LRHO	AD 3.12	Heliport data .....	AD 3.7-3
LRHO	AD 3.13	Declared distances .....	AD 3.7-3
LRHO	AD 3.14	Approach and FATO lighting .....	AD 3.7-3
LRHO	AD 3.15	Other lighting, secondary power supply.....	AD 3.7-3
LRHO	AD 3.16	ATS airspace .....	AD 3.7-3
LRHO	AD 3.17	ATS communication facilities.....	AD 3.7-4
LRHO	AD 3.18	Radio navigation and landing aids.....	AD 3.7-4
LRHO	AD 3.19	Local traffic regulations.....	AD 3.7-4
LRHO	AD 3.20	Noise abatement procedures .....	AD 3.7-4
LRHO	AD 3.21	Flight procedures .....	AD 3.7-4
LRHO	AD 3.22	Additional information .....	AD 3.7-4
LRHO	AD 3.23	Charts related to the heliport .....	AD 3.7-4

LRDD	AD 3.1	Heliport location indicator and name.....	AD 3.8-1
LRDD	AD 3.2	Heliport geographical and administrative data.....	AD 3.8-1
LRDD	AD 3.3	Operational hours .....	AD 3.8-1
LRDD	AD 3.4	Handling services and facilities.....	AD 3.8-1
LRDD	AD 3.5	Passenger facilities .....	AD 3.8-1
LRDD	AD 3.6	Rescue and fire fighting services.....	AD 3.8-2
LRDD	AD 3.7	Seasonal availability - clearing.....	AD 3.8-2
LRDD	AD 3.8	Aprons, taxiways and check locations data .....	AD 3.8-2
LRDD	AD 3.9	Markings and markers .....	AD 3.8-2
LRDD	AD 3.10	Heliport obstacles .....	AD 3.8-2
LRDD	AD 3.11	Meteorological information provided.....	AD 3.8-2
LRDD	AD 3.12	Heliport data.....	AD 3.8-3
LRDD	AD 3.13	Declared distances .....	AD 3.8-3
LRDD	AD 3.14	Approach and FATO lighting.....	AD 3.8-3
LRDD	AD 3.15	Other lighting, secondary power supply.....	AD 3.8-3
LRDD	AD 3.16	ATS airspace .....	AD 3.8-3
LRDD	AD 3.17	ATS communication facilities.....	AD 3.8-3
LRDD	AD 3.18	Radio navigation and landing aids .....	AD 3.8-3
LRDD	AD 3.19	Local traffic regulations .....	AD 3.8-4
LRDD	AD 3.20	Noise abatement procedures .....	AD 3.8-4
LRDD	AD 3.21	Flight procedures .....	AD 3.8-4
LRDD	AD 3.22	Additional information .....	AD 3.8-4
LRDD	AD 3.23	Charts related to the heliport.....	AD 3.8-4

## AD 1.3 INDEX TO AERODROMES AND HELIPORTS

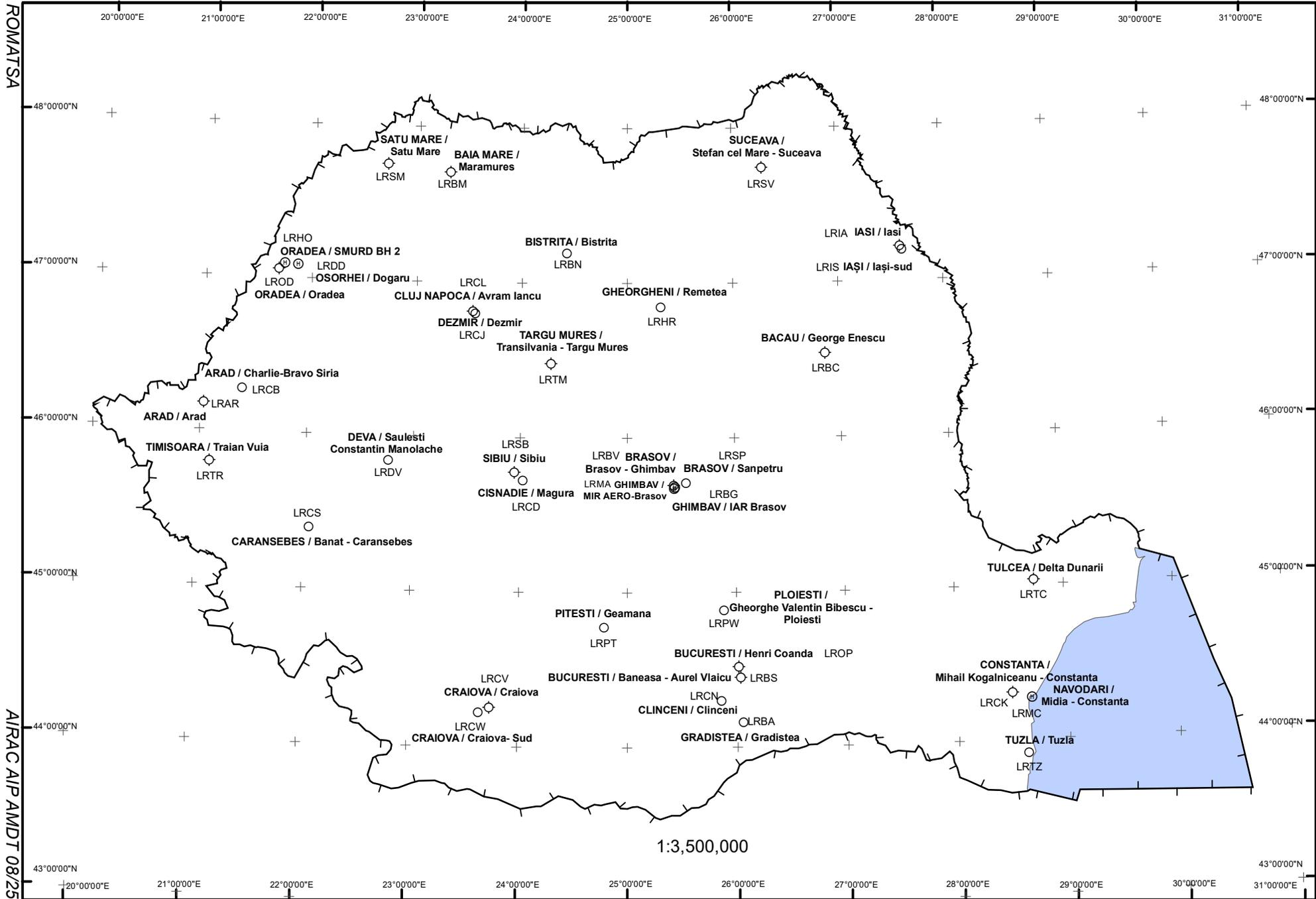
Aerodrom/heliport name Location indicator	Type of traffic permitted to use the aerodrome/heliport			Reference to AD section and remarks
	International - National (INTL-NTL)	IFR-VFR	S = Scheduled NS = Non-scheduled P = Private	
1	2	3	4	5
<b>Aerodromes</b>				
ARAD/Arad LRAR	INTL - NTL	IFR - VFR	S - NS - P	AD 2.1
BACĂU/George Enescu LRBC	(INTL) - NTL	IFR - VFR	S - NS - P	AD 2.2
BAIA MARE/Maramureş LRBM	(INTL) - NTL	IFR - VFR	S - NS - P	AD 2.3
BUCUREŞTI/Băneasa-Aurel Vlaicu LRBS	INTL - NTL	IFR - VFR	S - NS - P	AD 2.4
BUCUREŞTI/Henri Coandă LROP	INTL - NTL	IFR - VFR	S - NS - P	AD 2.5
CARANSEBEŞ/Banat-Caransebeş LRCS	NTL	VFR	NS - P	AD 2.6
CLUJ NAPOCA/Avram Iancu LRCL	INTL - NTL	IFR - VFR	S - NS - P	AD 2.7
CONSTANŢA/Mihail Kogălniceanu- Constanţa LRCK	INTL - NTL	IFR - VFR	S - NS - P	AD 2.8
CRAIOVA/Craiova LRCV	(INTL) - NTL	IFR - VFR	S - NS - P	AD 2.9
IAŞI/Iaşi 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/Ştefan cel Mare-Suceava LRSV	(INTL) - NTL	IFR - VFR	S - NS - P	AD 2.14
TÂRGU-MUREŞ/Transilvania-Târgu Mureş LRTM	INTL - NTL	IFR - VFR	S - NS - P	AD 2.15
TIMIŞOARA/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
CISNĂDIE/Măgura LRCD	NTL	VFR	NS - P	AD 2.18
PLOIEŞTI/Gheorghe Valentin Bibescu-Ploieşti LRPW	NTL	VFR	NS - P	AD 2.19
TUZLA/Tuzla LRTZ	NTL	VFR	<b>P</b>	AD 2.20
BRAŞOV/Sânpetru LRSP	NTL	VFR	NS - P	AD 2.21
PITEŞTI/Geamăna LRPT	NTL	VFR	NS - P	AD 2.23
DEVA/Săuleşti-Constantin Manolache LRDV	NTL	VFR	NS - P	AD 2.24
<i>Remarks: (INTL) - opened to international traffic only in certain circumstances; - for details, see AD section for each aerodrome.</i>				

1	2	3	4	5
ARAD/Charlie-Bravo Şiria LRCB	NTL	VFR	NS - P	AD 2.25
BISTRIŢA/Bistriţa LRBN	NTL	VFR	NS - P	AD 2.26
GRĂDIŞTEA/Grădiştea LRBA	NTL	VFR	NS - P	AD 2.27
CLINCENI/Clinceni LRCN	NTL	VFR	NS - P	AD 2.28
BRAŞOV/Braşov-Ghimbav LRBV	INTL - NTL	IFR - VFR	S - NS - P	AD 2.29
DEZMIR/Dezmir LRCJ	NTL	VFR	NS - P	AD 2.30
GHEORGHENI / Remetea LRHR	NTL	VFR	NS - P	AD 2.31
CRAIOVA / Craiova-Sud LRCW	NTL	VFR	NS - P	AD 2.32
IAŞI / Iaşi-Sud LRIS	NTL	VFR	NS - P	AD 2.33

Remarks: (INTL) - opened to international traffic only in certain circumstances;  
- for details, see AD section for each aerodrome.

1	2	3	4	5
<b>Heliports</b>				
GHIMBAV/IAR BRAŞOV LRBG	NTL	VFR	NS - P	AD 3.2
NĂVODARI//Midia-Constanţa LRMC	NTL	VFR	NS - P	AD 3.5
GHIMBAV/MIR AERO-Braşov LRMA	NTL	VFR	NS - P	AD 3.6
ORADEA/SMURD BH 2 LRHO	NTL	VFR	NS - P	AD 3.7
OŞORHEI/Dogaru LRDD	NTL	VFR	P	AD 3.8

Changes: LRIS added.



1:3,500,000

AERODROMES AND HELIPORTS - INDEX CHART

ROMATSA

AIRAC AIP AMDT 08/25

AIP ROMANIA

AD 1-3-3 07 AUG 2025

**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	Unlimited	AD 2.1
ARAD/Charlie-Bravo Șiria LRCB	20.10.2014	01.11.2024	AD 2.25
BACĂU/George Enescu LRBC	01.09.2002	Unlimited	AD 2.2 Civ / Mil
BAIA MARE/Maramureș LRBM	10.07.2002	Unlimited	AD 2.3
BISTRIȚA/Bistrița LRBN	23.03.2017	20.07.2024	AD 2.26
BRAȘOV/Brașov-Ghimbav LRBV	09.12.2022	Unlimited	AD 2.29
BUCUREȘTI/Băneasa-Aurel Vlaicu LRBS	15.07.2002	Unlimited	AD 2.4
BUCUREȘTI/Henri Coandă LROP	30.04.2002	Unlimited	AD 2.5 Civ / Mil
CARANSEBEȘ/Banat-Caransebeș LRCS	29.05.2020	Unlimited	AD 2.6
CISNĂDIE/Măgura LRCD	23.06.2008	Unlimited	AD 2.18
CLINCENI/Clinceni LRCN	24.05.2016	Unlimited	AD 2.28
CLUJ NAPOCA/Avram Iancu LRCL	15.06.2002	Unlimited	AD 2.7
CONSTANȚA/Mihail Kogălniceanu- Constanța LRCK	10.06.2002	Unlimited	AD 2.8 Civ / Mil
Corona-Brașov	04.11.2022	Unlimited	Not published
CRAIOVA/Craiova LRCV	25.04.2002	Unlimited	AD 2.9
CRAIOVA/Craiova-Sud LRCW	19.10.2011	Unlimited	AD 2.32
DEVA/Săulești-Constantin Manolache LRDV	13.10.2011	Unlimited	AD 2.24
DEZMIR/Dezmir LRCJ	04.01.2019	Unlimited	AD 2.30
GHEORGHENI/Remetea LRHR	26.04.2023	25.04.2024	AD 2.31
GRĂDIȘTEA/Grădiștea LRBA	26.08.2019	Unlimited	AD 2.27
IAȘI/Iași LRIA	30.05.2002	Unlimited	AD 2.10
IAȘI/Iași-Sud LRIS	25.07.2011	Unlimited	AD 2.33
ORADEA/Oradea LROD	20.08.2002	Unlimited	AD 2.11
PITEȘTI/Geamăna LRPT	10.10.2011	Unlimited	AD 2.23
PLOIEȘTI/Gheorghe Valentin Bibescu - Ploiești LRPW	26.07.2007	15.09.2024	AD 2.19
SATU MARE/Satu Mare LRSM	10.07.2002	Unlimited	AD 2.12
Sânmihaiu German LRSG	07.12.2023	Unlimited	Not published
SÂNPETRU/Sânpetru LRSP	22.02.2010	Unlimited	AD 2.21

<b>Aerodrome name Location indicator</b>	<b>Date of initial certification Data certificării inițiale</b>	<b>Certificate validity Valabilitatea certificatului</b>	<b>Remarks Observații</b>
1	2	3	4
SIBIU/Sibiu LRSB	30.07.2002	Unlimited	AD 2.13
SUCEAVA/Ștefan cel Mare-Suceava LRSV	01.09.2002	Unlimited	AD 2.14
TĂUȚII MĂGHERĂUȘ/Tăuții- Măgherauș LRMM	12.07.2016	Unlimited	Not published
TÂRGU-MUREȘ/Mureșeni LRMS	26.05.2011	Unlimited	Not published
TÂRGU-MUREȘ/Transilvania-Târgu Mureș LRTM	20.06.2002	Unlimited	AD 2.15
TIMIȘOARA/Traian Vuia LRTR	01.10.2003	Unlimited	AD 2.16 Civ / Mil
TULCEA/Delta Dunării LRTC	03.10.2002	Unlimited	AD 2.17
TUZLA/Tuzla LRTZ	15.11.2004	Unlimited	AD 2.20
Zănești-Neamț LRZN	01.08.2022	Unlimited	Not published

<b>Heliport name Location indicator</b>	<b>Date of initial certification Data certificării inițiale</b>	<b>Certificate validity Valabilitatea certificatului</b>	<b>Remarks Observații</b>
1	2	3	4
BALC/Complex Vânătoare Fagu-Balc LRFB	07.08.2012	Unlimited	Not published
BUCUREȘTI/Spitalul Universitar de Urgență (SUUB)	03.12.2019	25.11.2024	Not published
BUCUREȘTI/West Gate LRWG	30.06.2014	20.07.2024	Not published
CONSTANȚA/Punct de Operare Aeromedicală SMURD LRCH	07.03.2016	Unlimited	Not published
GHIMBAV/IAR BRAȘOV LRBG	17.06.2009	15.12.2024	AD 3.2
GHIMBAV/MIR AERO-Brașov LRMA	26.10.2017	Unlimited	AD 3.6
Heliportul Spitalului Județean de Urgență Bistrița - SMURD BN 1	16.08.2021	16.08.2024	Not published
Heliplatforma ANA	07.03.2022	10.09.2025	Not published

a	b	c	d	e	f
10663	POLE	461055.0N 0211629.7E	397/ 49 FT	- / -	Electronic form of obstacle data sets for Area 2 are available (see GEN 3.1.6)
10664	POLE	461055.1N 0211629.8E	397/ 49 FT	- / -	
10675	POLE	461058.0N 0211621.0E	397/ 50 FT	- / -	
10676	POLE	461058.1N 0211621.1E	397/ 50 FT	- / -	
10677	POLE	461058.3N 0211619.5E	398/ 50 FT	- / -	
10678	POLE	461058.5N 0211619.5E	398/ 50 FT	- / -	
10679	POLE	461058.7N 0211617.9E	398/ 51 FT	- / -	
10680	POLE	461058.8N 0211618.0E	398/ 51 FT	- / -	
10681	POLE	461058.9N 0211616.3E	399/ 52 FT	- / -	
10682	POLE	461059.1N 0211616.4E	399/ 52 FT	- / -	
10683	POLE	461059.2N 0211614.7E	400/ 52 FT	- / -	
10684	POLE	461059.3N 0211614.8E	400/ 52 FT	- / -	
10685	POLE	461059.4N 0211613.1E	402/ 54 FT	- / -	
10686	POLE	461059.5N 0211613.2E	402/ 54 FT	- / -	
10687	POLE	461059.5N 0211611.4E	403/ 55 FT	- / -	
10688	POLE	461059.7N 0211611.4E	403/ 55 FT	- / -	
10689	POLE	461059.6N 0211609.9E	403/ 56 FT	- / -	
10690	POLE	461059.8N 0211609.9E	403/ 56 FT	- / -	
10691	POLE	461059.7N 0211608.3E	404/ 57 FT	- / -	
10692	POLE	461059.8N 0211608.3E	404/ 57 FT	- / -	
10693	POLE	461059.7N 0211606.6E	405/ 57 FT	- / -	
10694	POLE	461059.9N 0211606.6E	405/ 57 FT	- / -	
10695	POLE	461059.8N 0211605.0E	406/ 59 FT	- / -	
10696	POLE	461059.9N 0211605.0E	406/ 59 FT	- / -	
10697	POLE	461059.8N 0211603.4E	407/ 59 FT	- / -	
10698	POLE	461059.9N 0211603.4E	407/ 59 FT	- / -	
10699	POLE	461059.8N 0211601.8E	409/ 61 FT	- / -	
10700	POLE	461059.9N 0211601.8E	409/ 61 FT	- / -	
10701	POLE	461059.8N 0211600.1E	410/ 62 FT	- / -	
10702	POLE	461100.0N 0211600.1E	410/62 FT	- / -	
10703	POLE	461059.8N 0211558.5E	410/ 64 FT	- / -	
10704	POLE	461100.0N 0211558.5E	410/64 FT	- / -	
10705	POLE	461059.9N 0211556.9E	410/ 64 FT	- / -	
10706	POLE	461100.0N 0211556.9E	410/ 64 FT	- / -	
10707	POLE	461059.9N 0211555.2E	410/ 65 FT	- / LGT R	
10708	POLE	461100.0N 0211555.2E	410/ 65 FT	- / LGT R	
10709	POLE	461059.9N 0211553.6E	408/ 63 FT	- / -	
10710	POLE	461100.0N 0211553.6E	408/ 63 FT	- / -	
10711	POLE	461100.0N 0211552.0E	406/62 FT	- / -	
10712	POLE	461100.0N 0211552.0E	406/ 62 FT	- / -	
10713	POLE	461059.9N 0211550.4E	405/ 60 FT	- / -	
10714	POLE	461100.1N 0211550.4E	405/ 60 FT	- / -	
10715	POLE	461100.0N 0211548.7E	403/59 FT	- / -	
10716	POLE	461100.1N 0211548.7E	403/ 59 FT	- / -	
10717	POLE	461100.0N 0211547.1E	402/57 FT	- / -	
10718	POLE	461100.1N 0211547.1E	402/ 57 FT	- / -	
10719	POLE	461100.0N 0211545.4E	400/55 FT	- / -	
10720	POLE	461100.1N 0211545.4E	400/ 55 FT	- / -	
10721	POLE	461100.0N 0211543.8E	398/ 54 FT	- / -	
10722	POLE	461100.1N 0211543.8E	398/54 FT	- / -	
10723	POLE	461100.0N 0211542.2E	396/ 52 FT	- / -	
10724	POLE	461100.2N 0211542.2E	396/ 52 FT	- / -	
10725	POLE	461100.0N 0211540.6E	395/ 51 FT	- / -	
10726	POLE	461100.2N 0211540.6E	395/ 51 FT	- / -	
10727	POLE	461100.1N 0211538.9E	395/ 50 FT	- / -	
10728	POLE	461100.2N 0211538.9E	395/ 50 FT	- / -	
10729	POLE	461100.1N 0211537.3E	395/ 50 FT	- / -	
10730	POLE	461100.2N 0211537.3E	395/ 50 FT	- / -	
10731	POLE	461100.1N 0211535.7E	395/ 50 FT	- / -	
10732	POLE	461100.2N 0211535.7E	395/ 50 FT	- / -	
10733	POLE	461100.1N 0211534.1E	395/ 51 FT	- / -	
10734	POLE	461100.3N 0211534.1E	395/ 51 FT	- / -	
10735	POLE	461100.1N 0211532.4E	396/ 50 FT	- / -	
10736	POLE	461100.3N 0211532.4E	396/ 50 FT	- / -	
10737	POLE	461100.2N 0211530.8E	397/ 49 FT	- / -	
10744	POLE	461100.3N 0211519.4E	401/ 53 FT	- / -	
10745	POLE	461100.4N 0211519.4E	401/ 53 FT	- / -	
10746	POLE	461100.3N 0211521.0E	401/ 53 FT	- / -	
10747	POLE	461100.4N 0211521.0E	401/ 53 FT	- / -	
10753	POLE	461100.3N 0211517.8E	401/ 53 FT	- / -	
10754	POLE	461100.5N 0211517.8E	401/ 53 FT	- / -	
10755	POLE	461100.3N 0211516.1E	401/ 54 FT	- / -	
10756	POLE	461100.5N 0211516.1E	401/ 54 FT	- / -	
10757	POLE	461100.4N 0211514.5E	401/ 53 FT	- / -	
10758	POLE	461100.5N 0211514.5E	401/ 53 FT	- / -	
10763	POLE	461100.4N 0211512.8E	400/ 52 FT	- / -	
10764	POLE	461100.5N 0211512.9E	400/ 52 FT	- / -	
10765	POLE	461100.4N 0211511.2E	399/ 52 FT	- / -	
10766	POLE	461100.5N 0211511.2E	399/ 52 FT	- / -	
10767	POLE	461100.4N 0211509.6E	399/ 52 FT	- / -	
10768	POLE	461100.6N 0211509.6E	399/ 52 FT	- / -	
10769	POLE	461100.5N 0211508.0E	398/ 51 FT	- / -	
10770	POLE	461100.6N 0211508.0E	398/ 51 FT	- / -	

a	b	c	d	e	f
10771	POLE	461100.5N 0211506.3E	397/ 50 FT	- / -	Electronic form of obstacle data sets for Area 2 are available (see GEN 3.1.6)
10772	POLE	461100.6N 0211506.3E	397/ 49 FT	- / -	
10773	POLE	461100.5N 0211504.7E	397/ 51 FT	- / -	
10774	POLE	461100.7N 0211504.7E	397/ 51 FT	- / -	
10775	POLE	461100.6N 0211503.1E	397/ 52 FT	- / -	
10776	POLE	461100.7N 0211503.1E	397/ 51 FT	- / -	
10777	POLE	461100.7N 0211501.4E	396/ 51 FT	- / -	
10778	POLE	461100.8N 0211501.5E	396/ 50 FT	- / -	
10779	POLE	461100.8N 0211459.8E	395/ 49 FT	- / -	
10781	POLE	461101.0N 0211458.2E	395/ 50 FT	- / -	
10782	POLE	461101.1N 0211458.2E	395/ 50 FT	- / -	
10783	POLE	461101.1N 0211456.6E	394/ 50 FT	- / -	
10784	POLE	461101.2N 0211456.6E	394/ 50 FT	- / -	
10809	POLE	461102.0N 0211440.8E	395/ 50 FT	- / -	
10810	POLE	461102.0N 0211439.4E	396/ 52 FT	- / -	
10811	POLE	461102.0N 0211438.0E	398/ 54 FT	- / -	
10812	POLE	461102.1N 0211436.7E	401/ 56 FT	- / -	
10829	POLE	461107.0N 0211432.4E	406/ 61 FT	- / -	
10830	POLE	461107.9N 0211433.8E	414/ 69 FT	- / -	
10831	POLE	461108.3N 0211433.2E	415/ 71 FT	- / -	
10832	POLE	461106.4N 0211431.3E	417/ 72 FT	- / -	
10833	POLE	461105.7N 0211430.1E	417/ 72 FT	- / -	
10834	POLE	461106.1N 0211429.6E	416/ 71 FT	- / -	
10835	POLE	461106.8N 0211430.8E	417/ 73 FT	- / -	
10836	POLE	461107.2N 0211431.6E	416/ 72 FT	- / -	
10837	POLE	461107.5N 0211430.6E	394/ 50 FT	- / -	
10838	POLE	461107.7N 0211430.7E	394/ 50 FT	- / -	
10839	POLE	461108.1N 0211429.2E	394/ 50 FT	- / -	
10840	POLE	461108.3N 0211429.3E	394/ 50 FT	- / -	
10841	POLE	461108.7N 0211427.8E	395/ 50 FT	- / -	
10842	POLE	461108.9N 0211427.9E	395/ 50 FT	- / -	
10843	POLE	461109.4N 0211426.4E	395/ 50 FT	- / -	
10844	POLE	461109.5N 0211426.5E	395/ 50 FT	- / -	
10845	POLE	461110.0N 0211425.1E	395/ 51 FT	- / -	
10846	POLE	461110.1N 0211425.2E	395/ 51 FT	- / -	
10850	POLE	461107.8N 0211425.7E	396/ 52 FT	- / -	
10851	POLE	461106.9N 0211425.8E	400/ 55 FT	- / -	
10852	POLE	461102.2N 0211416.9E	402/ 58 FT	- / -	
10853	POLE	461101.2N 0211416.9E	408/ 63 FT	- / -	
10854	POLE	461102.1N 0211415.1E	395/ 51 FT	- / -	
10855	POLE	461101.1N 0211415.2E	405/ 61 FT	- / -	
10856	POLE	461102.1N 0211413.6E	399/ 55 FT	- / -	
10857	POLE	461101.2N 0211413.5E	403/ 59 FT	- / -	
10858	POLE	461102.2N 0211418.3E	406/ 61 FT	- / -	
10859	POLE	461101.2N 0211418.4E	409/ 65 FT	- / -	
10860	POLE	461101.3N 0211411.9E	401/ 56 FT	- / -	
10861	POLE	461102.2N 0211412.1E	397/ 53 FT	- / -	
10927	SIGN	461101.5N 0211419.0E	404/ 60 FT	- / -	
10929	SIGN	461101.7N 0211418.9E	403/ 58 FT	- / -	
11059	POLE	461030.3N 0211649.9E	374/ 22 FT	- / LGT R	
11063	POLE	461032.4N 0211649.2E	375/ 24 FT	- / -	
11065	POLE	461033.3N 0211649.7E	375/ 24 FT	- / -	
11071	POLE	461036.8N 0211647.8E	382/ 31 FT	- / -	
11092	OTHER	461028.2N 0211628.2E	370/ 18 FT	Marked / -	
11093	OTHER	461035.7N 0211456.5E	362/ 15 FT	Marked / -	
11124	ANTENNA	461029.7N 0211647.6E	383/ 29 FT	- / LGT R	
11130	ANTENNA	461029.2N 0211649.5E	374/ 20 FT	- / -	
11132	ANTENNA	461040.5N 0211443.5E	363/ 17 FT	- / LGT R	
11133	ANTENNA	461038.4N 0211443.2E	363/ 17 FT	- / LGT R	
11134	ANTENNA	461020.0N 0211639.6E	423/ 68 FT	Marked / LGT R	
11135	ANTENNA	461018.1N 0211639.4E	403/ 51 FT	Marked / LGT R	
11136	ANTENNA	461116.8N 0211414.1E	415/ 71 FT	- / -	
11137	BRIDGE	460932.5N 0211756.7E	632/ 280 FT	- / LGT R	

In Area 3					
OBST ID/ Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
397	ELECTRICAL SYS	461032.8N 0211631.1E	354.8/ 3.0 FT	- / LGT R	Electronic form of obstacle data sets for Area 3 are available (see GEN 3.1.6)
400	ELECTRICAL SYS	461032.2N 0211631.1E	354.8/ 3.0 FT	- / LGT R	
401	ELECTRICAL SYS	461032.4N 0211631.1E	354.8/ 3.0 FT	- / LGT R	
402	ELECTRICAL SYS	461032.5N 0211631.1E	354.8/ 3.0 FT	- / LGT R	
403	ELECTRICAL SYS	461032.1N 0211631.0E	354.9/ 3.0 FT	- / LGT R	
404	ELECTRICAL SYS	461032.5N 0211631.1E	354.8/ 2.7 FT	- / LGT R	
405	ELECTRICAL SYS	461032.9N 0211631.2E	354.9/ 2.8 FT	- / LGT R	
406	ELECTRICAL SYS	461032.2N 0211631.1E	354.8/ 3.0 FT	- / LGT R	
407	ELECTRICAL SYS	461038.1N 0211456.8E	349.8/ 2.3 FT	- / LGT R	
408	ELECTRICAL SYS	461039.1N 0211456.9E	349.5/ 2.3 FT	- / LGT R	
409	ELECTRICAL SYS	461038.0N 0211456.8E	349.8/ 2.3 FT	- / LGT R	
410	ELECTRICAL SYS	461038.2N 0211456.8E	349.6/ 2.0 FT	- / LGT R	
411	ELECTRICAL SYS	461037.9N 0211456.7E	349.8/ 2.4 FT	- / LGT R	
412	ELECTRICAL SYS	461039.2N 0211456.9E	349.3/ 2.3 FT	- / LGT R	

**1. AIRPORT REGULATIONS / REGLEMENTĂRI DE AEROPORT**

Aircraft are permitted to taxi on the apron only if permanent radio contact with ATC TWR Băneasa can be maintained during the entire taxiing maneuver. If ATC TWR Băneasa informs regarding a follow-me car to guide a taxiing aircraft, the pilot shall adhere to its signals. If the pilot prefers guidance by a Follow-me car for a taxiing maneuver, he may request one from ATC TWR Băneasa. Follow-me cars are identifiable by a functioning lighting signals ramp (Follow Me) and yellow omnidirectional light/flashing light. On the aprons aircraft are permitted to taxi only at the indispensable minimum engine thrust. When taxiing into aircraft stands and on twys, aircraft shall generally not stop in curves so as to avoid the further appliance of break-away power

Rularea aeronavelor pe platformă este permisă numai dacă sunt în legătură radio permanentă cu ATC TWR Băneasa pe toată perioada manevrelor de rulare. În situația în care ATC TWR Băneasa informează privind însoțirea cu Follow Me a aeronavei în rulaj, pilotul trebuie să urmeze întocmai semnalele acestuia. În cazul în care pilotul dorește efectuarea manevrelor de rulare cu asistență Follow Me, va solicita acest lucru către ATC TWR Băneasa. Vehiculele Follow Me sunt identificabile prin rampele luminoase de semnalizare (Follow Me) și girofar de culoare galbenă. Rularea aeronavelor pe platformă este permisă numai la un regim de turație al motoarelor care să permită deplasarea aeronavei. La rularea pentru intrarea în pozițiile de staționare și la efectuarea virajelor pe caile de rulare, aeronavele nu vor opri în curbe, pentru a evita turarea suplimentară a motoarelor în vederea punerii în mișcare.

**2. STANDARD TAXI ROUTES / RUTELE STANDARD DE RULARE****2.1 ARRIVAL INFORMATION / INFORMAȚII LA SOSIRE**

	Taxiways to be followed / Traseu de urmat	To / Către	Remarks
ARR on/pe RWY 07	TWY D, TAXILANE F, TWY C, TWY G, TAXILANE L	Stand 01-02, 02A, 03-06	
	TWY D, TAXILANE F, TWY C, TWY G	Stand 07-08	
	TWY D, TAXILANE F	Stand 09-13, 09A, 12A	
	TWY D, TAXILANE F, TWY C, TAXILANE B	Stand 14-15, 14A, 15A, 15B, 17-20, 20A	
	TWY D, TAXILANE F	Stand 16	
	TWY D, TAXILANE F, TWY C	Stand 21	
	TWY D, TAXILANE F, TWY C, TWY G	Stand 22-23	
	TWY D, TAXILANE F, TWY C, TWY G, TAXILANE E	Stand 24-28	
	TWY D; TWY S	Flight School Apron	
ARR on/pe RWY 25	TWY A, TWY C, TWY G TAXILANE L	Stand 01-02, 02A, 03-06	
	TWY A, TWY C, TWY G	Stand 07-08	
	TWY A, TAXILANE F	Stand 09-13, 09A, 12A	
	TWY A, TWY C, TAXILANE B	Stand 14-15, 14A, 15A, 15B, 17-20, 20A	
	TWYA A, TAXILANE F	Stand 16	
	TWY A, TWY C	Stand 21	
	TWY A, TWY C, TWY G	Stand 22-23	
	TWY A, TWY C, TWY G, TAXILANE E	Stand 24-28	
TWY A, TAXILANE F, TWY D, TWY S	Flight School Apron		

TAXILANE = 'Aircraft stand taxilane / cale de rulare de acces la pozițiile de staționare

**2.2 DEPARTURE INFORMATION / INFORMAȚII LA PLECARE**

	To / catre	Taxiways to be followed / Traseu de urmat	Remarks
DEP on/pe RWY 07	Stand 01-02, 02A, 03-07	TAXILANE L, TWY G, TWY C, TWY A	
	Stand 08	TWY C, TWY A	
	Stand 09-15, 14A, 15A, 15B, 17-20, 20A, 20B	TAXILANE B, TWY C, TWY A	
	Stand 09A	TWY C, TWY A	
	Stand 12A	TAXILANE F, TWY A	
	Stand 16	TAXILANE B, TWY C, TWY A	
	Stand 21-23	TWY G, TWY C, TWY A	
	Stand 24-28	TAXILANE E, TWY G, TWY C, TWY A	
DEP on/pe RWY 25	Flight School Apron	TWY S, TWY D, TAXILANE F, TWY A	
	Stand 01-02, 02A, 03-07	TAXILANE L, TWY G, TWY C, TAXILANE F, TWY D	
	Stand 08	TWY C, TAXILANE F, TWY D	
	Stand 09-15, 14A, 15A, 15B, 17-20, 20A, 20B	TAXILANE B, TWY C, TAXILANE F, TWY D	
	Stand 09A	TWY C, TAXILANE F, TWY D	
	Stand 12A	TWY F, TAXILANE F, TWY D	
	Stand 16	TAXILANE B, TWY C, TAXILANE F, TWY D	
	Stand 21-23	TWY G, TWY C, TAXILANE F, TWY D	
Stand 24-28	TAXILANE E, TWY G, TWY C, TAXILANE F, TWY D		
Flight School Apron	TWY S, TWY D		

TAXILANE = 'Aircraft stand taxilane / cale de rulare de acces la pozițiile de staționare

### 3. PROCEDURES FOR DEPARTING AIRCRAFT / PROCEDURI PENTRU AERONAVE CARE PLEACĂ

Ground control service (start-up, push-back and taxi instructions) is provided by Băneasa Ground 129.950. Pilots shall only ask for start-up and push-back permission after obtaining confirmation from handling agent that is ready for the manoeuvre and at his signals. The anti-collision light must be switched on just prior to push-back.

Serviciul de control Ground (pornirea motoarelor, împingerea înapoi și instrucțiunile de rulaj) este asigurat de Băneasa Ground 129.950. Piloții vor solicita aprobarea de pornire a motoarelor și împingerea înapoi numai după ce vor obține confirmarea de la agentul handling că este pregătit pentru manevră și la semnalele acestuia. Luminile anti-coliziune trebuie aprinse imediat înaintea împingerii înapoi.

### 4. SCHOOL AND TRAINING FLIGHTS - TECHNICAL TEST FLIGHTS - USE OF RUNWAYS / ZBORURI ȘCOALĂ ȘI ANTRENAMENT - ZBORURI TEHNICE - FOLOSIREA PISTELOR

Touch & go school and/or training flights are permitted only based on a flight plan specifying this procedure.

Touch & go school or training flights and those that do not involve parking on the LRBS apron can be made only after receiving a confirmation from the airport regarding the payment or paying the value of the services in advance, in accordance with GEN 4.1-6

Zborurile școală și/sau antrenament de tip touch&go sunt permise numai în baza unui plan de zbor în care este specificată această procedură.

Zborurile școală și/sau antrenament de tip touch & go și/sau care nu implică staționarea pe platforma LRBS pot fi efectuate numai după confirmarea din partea aeroportului de asumare a plății sau efectuarea plății contravalorii serviciilor în prealabil, în condițiile GEN 4.1-6

### 5. HELICOPTER TRAFFIC – LIMITATIONS / TRAFICUL ELICOPTERELOR – LIMITĂRI

Air taxing can be performed on TWY D, TWY A, TWY F, TWY S. On TWY B, TWY C, TWY H only ground taxing is permitted

Rulajul aerian se poate efectua pe TWY D, TWY A, TWY F, TWY S. Pe TWY B, TWY C, TWY H se poate efectua numai rulaj terestru.

## LRBS AD 2.21 NOISE ABATEMENT PROCEDURES

In order to ensure noise abatement, the following rules and operating procedures shall be applied:

#### 1. General rules

1.1. Each aircraft operator using the airport shall ensure at all times that the aircraft is operated in a manner calculated to cause the least disturbance practicable in areas surrounding the airport.

1.2. Engine tests on apron stands is permitted only on idle. Engine tests in excess of idle must be conducted outside the apron.

#### 2. Night-time restrictions applicable between 2200-0600 LT

2.1. Reverse thrust other than idle thrust shall only be used to an extent unavoidable for safety reasons.

2.2. Pilots will avoid the use of auxiliary engines or auxiliary power unit (APU).

2.3. The following operations are not permitted:  
a. technical or training flights (except MTOW < 5700 Kg);

b. Ground testing in excess of idle is forbidden.

c. The APU is permitted functioning maximum 15 minutes after BLOCK ON TIME and may be started over 30 minutes before STD To minimize disturbance in areas adjacent to the airport, Captains are requested to avoid the use of reverse thrust after landing, consistent with safe operation of the aircraft, especially between 2200 and 0600 (local time).

2.4. The landing charges on BUCUREȘTI/Băneasa - Aurel Vlaicu are established in accordance with the MTOW of the aircraft and the applicable ICAO Annex 16 provisions, as specified in AIP ROMANIA GEN 4.1-6.

Următoarele reguli și proceduri de operare trebuie aplicate pentru reducerea zgomotului:

#### 1. Reguli generale

1.1. Fiecare operator aerian care utilizează aeroportul trebuie să asigure permanent operarea aeronavei astfel încât să producă perturbații cât mai reduse în zonele învecinate aeroportului.

1.2. Testarea la sol a motoarelor la stand este permisă numai la turația de ralanti. Testarea motoarelor la o turație mai mare de ralanti se va efectua în afara standurilor.

#### 2. Restricții de noapte aplicabile între 2200-0600 LT

2.1. Reversoarele de jet, cu excepția turației idle, vor fi utilizate numai pentru considerente de siguranță.

2.2. Piloții vor evita utilizarea motoarelor auxiliare sau APU.

2.3. Următoarele operațiuni nu sunt permise:

a. Zboruri tehnice sau de școală (cu excepția aeronavelor cu MTOW < 5700kg);

b. Testarea la sol a motoarelor la o turație mai mare de ralanti.

c. APU poate fi menținut în funcțiune maxim 15 minute după BLOCK ON TIME și poate fi pornit cu maximum 30 minute înainte de STD. Pentru a reduce disconfortul în zonele adiacente aeroportului, Comandanții sunt rugați să evite folosirea inversorului de jet, după aterizare, în consens cu exploatarea în siguranță a aeronavei, în special între 2200 și 0600 (ora locală).

2.4. Tarifele de aterizare pe BUCUREȘTI/Băneasa - Aurel Vlaicu sunt stabilite în concordanță cu MTOW și prevederile aplicabile din Anexa 16 ICAO, așa cum este specificat în AIP secțiunea GEN 4.1-6.



a	b	c	d	e	f
LRIA_955	POLE	471240.5N 0273733.1E	717/98 FT	NIL	Electronic form of obstacle data sets for Area 2 are available (see GEN 3.1.6)
LRIA_956	POLE	471246.0N 0273725.4E	718/98 FT	NIL	
LRIA_957	POLE	471251.6N 0273717.7E	725/98 FT	NIL	
LRIA_958	POLE	471257.0N 0273710.4E	732/98 FT	NIL	
LRIA_959	POLE	471302.7N 0273702.7E	751/98 FT	NIL	
LRIA_960	POLE	471308.2N 0273655.1E	769/98 FT	NIL	
LRIA_961	POLE	471313.7N 0273647.7E	771/98 FT	NIL	
LRIA_962	POLE	471319.7N 0273643.7E	747/98 FT	NIL	
LRIA_963	POLE	471326.0N 0273640.4E	682/98 FT	NIL	
LRIA_985	BUILDING	471038.2N 0273702.2E	402/50 FT	NIL	
LRIA_990	TREE	471036.7N 0273659.8E	408/57 FT	NIL	
LRIA_991	ANTENNA	471033.4N 0273703.3E	412/58 FT	NIL	
LRIA_996	ANTENNA	471138.3N 0273509.2E	524/66 FT	NIL	
LRIA_1119	ANTENNA	471101.8N 0273407.2E	570/133 FT	NIL	
LRIA_1147	ANTENNA	471059.7N 0273341.7E	623/177 FT	NIL	
LRIA_1153	POLE	471101.0N 0273338.4E	653/192 FT	NIL	
LRIA_1154	POLE	471103.8N 0273345.5E	653/192 FT	NIL	
LRIA_1155	POLE	471107.2N 0273342.1E	655/192 FT	NIL	
LRIA_1163	STACK	470857.5N 0273618.1E	460/328 FT	MARKED/LGTD R	
LRIA_1167	TREE	471212.8N 0273432.5E	600/65 FT	NIL	
LRIA_1169	TREE	471149.8N 0273440.7E	588/69 FT	NIL	
LRIA_1170	TREE	471152.8N 0273446.7E	589/70 FT	NIL	
LRIA_1171	TREE	471148.7N 0273444.6E	587/70 FT	NIL	
LRIA_1175	BUILDING	471122.1N 0273337.7E	615/100 FT	NIL	
LRIA_1177	ANTENNA	471056.4N 0273402.3E	559/121 FT	NIL	
LRIA_1178	ANTENNA	471057.3N 0273404.7E	574/134 FT	NIL	
LRIA_1184	BUILDING	471117.0N 0273332.9E	564/59 FT	NIL	
LRIA_1189	BUILDING	471207.9N 0273223.4E	665/65 FT	NIL	
LRIA_1190	BUILDING	471137.0N 0273327.3E	583/70 FT	NIL	
LRIA_1191	BUILDING	471133.2N 0273321.8E	589/71 FT	NIL	
LRIA_1192	BUILDING	471129.9N 0273326.1E	585/63 FT	NIL	
LRIA_1193	BUILDING	471204.1N 0273219.9E	661/65 FT	NIL	
LRIA_1194	BUILDING	471128.2N 0273324.6E	587/64 FT	NIL	
LRIA_1196	BUILDING	471205.3N 0273215.8E	659/57 FT	NIL	
LRIA_1201	BUILDING	471134.4N 0273329.0E	583/72 FT	NIL	
LRIA_1203	BUILDING	471128.5N 0273321.8E	578/55 FT	NIL	
LRIA_1204	BUILDING	471146.3N 0273228.7E	619/53 FT	NIL	
LRIA_1210	POLE	470714.0N 0273913.9E	859/98 FT	NIL	
LRIA_1211	POLE	470717.5N 0273907.8E	803/98 FT	NIL	
LRIA_1212	POLE	470721.2N 0273849.8E	720/98 FT	NIL	
LRIA_1213	POLE	470724.9N 0273838.1E	685/98 FT	NIL	
LRIA_1214	POLE	470729.9N 0273833.1E	632/98 FT	NIL	
LRIA_1215	POLE	470735.9N 0273827.0E	563/98 FT	NIL	
LRIA_1216	POLE	470740.7N 0273813.9E	553/98 FT	NIL	
LRIA_1217	POLE	470747.8N 0273754.5E	519/98 FT	NIL	
LRIA_1218	POLE	470754.3N 0273748.5E	525/98 FT	NIL	
LRIA_1224	POLE	471332.3N 0273636.2E	593/98 FT	NIL	
LRIA_1251	POLE	471156.0N 0273259.1E	628/98 FT	NIL	
LRIA_1292	BUILDING	470753.3N 0273502.6E	552/121 FT	NIL	
LRIA_1295	ANTENNA	471212.5N 0273214.0E	738/123 FT	NIL	
LRIA_1307	ANTENNA	471253.7N 0273422.6E	775/188 FT	MARKED/LGTD R	
LRIA_1309	POLE	471104.7N 0273335.1E	655/192 FT	NIL	
LRIA_1312	NATURAL HIGHPOINT	471325.7N 0273959.5E	776/59 FT	NIL	
LRIA_1313	TREE	471256.1N 0273418.6E	696/62 FT	NIL	
LRIA_1314	BUILDING	471139.3N 0273323.5E	604/86 FT	NIL	
LRIA_1315	BUILDING	471129.2N 0273331.8E	600/86 FT	NIL	
LRIA_1318	TREE	471049.1N 0273646.3E	400/79 FT	NIL	
LRIA_1320	TREE	471052.7N 0273642.7E	408/80 FT	NIL	
LRIA_1321	TREE	471053.9N 0273642.5E	402/69 FT	NIL	
LRIA_1322	TREE	471055.8N 0273643.1E	414/67 FT	NIL	
LRIA_1323	TREE	471058.4N 0273643.2E	424/71 FT	NIL	
LRIA_1325	TREE	471103.9N 0273636.6E	436/92 FT	NIL	
LRIA_1326	TREE	471106.4N 0273633.9E	416/79 FT	NIL	
LRIA_1328	TREE	471112.3N 0273629.4E	420/69 FT	NIL	
LRIA_1329	TREE	471115.0N 0273628.0E	420/55 FT	NIL	
LRIA_1331	TREE	471120.0N 0273624.8E	436/66 FT	NIL	
LRIA_1332	TREE	471122.1N 0273622.8E	432/60 FT	NIL	
LRIA_1333	TREE	471126.3N 0273618.9E	430/63 FT	NIL	
LRIA_1334	TREE	471128.9N 0273617.2E	440/64 FT	NIL	
LRIA_1335	TREE	471132.1N 0273615.7E	436/62 FT	NIL	
LRIA_1336	TREE	471134.6N 0273615.1E	440/64 FT	NIL	
LRIA_1337	TREE	471136.2N 0273615.5E	450/63 FT	NIL	

a	b	c	d	e	f
LRIA_1557	BUILDING	471017.0N 0273613.8E	425/70 FT	NIL	Electronic form of obstacle data sets for Area 2 are available (see GEN 3.1.6)
LRIA_4187	ANTENNA	471230.7N 0273155.0E	763/87 FT	NIL	
LRIA_4189	ANTENNA	471245.8N 0274143.6E	820/107 FT	NIL	
LRIA_4198	STACK	470850.4N 0274301.7E	660/540 FT	NIL	
LRIA_4222	MONUMENT	470601.8N 0273955.6E	1371/139 FT	LGTD R	
LRIA_4223	ANTENNA	471229.7N 0273154.2E	790/113 FT	NIL	
LRIA_4227	ANTENNA	471207.7N 0274220.8E	731/146 FT	NIL	
LRIA_4229	ANTENNA	470907.9N 0273236.5E	739/166 FT	NIL	
LRIA_4232	ANTENNA	470508.9N 0273848.7E	1384/169 FT	MARKED/LGTD R	
LRIA_4233	ANTENNA	470456.5N 0273901.9E	1437/203 FT	NIL	
LRIA_4234	ANTENNA	470459.5N 0273900.3E	1359/132 FT	NIL	
LRIA_4235	ANTENNA	470606.4N 0274001.8E	1313/64 FT	NIL	
LRIA_4236	ANTENNA	470606.4N 0274002.3E	1339/90 FT	NIL	
LRIA_4237	ANTENNA	470602.3N 0274008.2E	1384/110 FT	MARKED/LGTD R	
LRIA_4238	ANTENNA	470603.8N 0274006.7E	1359/89 FT	NIL	
LRIA_4239	ANTENNA	470557.6N 0274006.8E	1466/175 FT	MARKED/LGTD R	
LRIA_4240	ANTENNA	470553.4N 0274008.4E	1458/173 FT	MARKED/LGTD R	
LRIA_4241	ANTENNA	470552.3N 0274005.2E	1451/175 FT	NIL	
LRIA_4248	ANTENNA	470510.4N 0273848.7E	1834/626 FT	MARKED/LGTD R	
LRIA_4255	POLE	470550.0N 0274016.6E	1365/98 FT	NIL	
LRIA_4256	POLE	470602.7N 0274010.7E	1357/98 FT	NIL	
LRIA_4257	POLE	470608.9N 0274007.8E	1330/98 FT	NIL	
LRIA_4440	POLE	471039.1N 0273703.7E	452/89 FT	NIL	
LRIA_4443	POLE	471036.2N 0273705.8E	465/105 FT	NIL	
LRIA_4444	POLE	471033.0N 0273708.1E	464/105 FT	NIL	
LRIA_4446	POLE	471029.8N 0273710.4E	462/105 FT	NIL	
LRIA_4447	POLE	471028.6N 0273710.3E	402/51 FT	NIL	
LRIA_4448	ANTENNA	471054.8N 0272723.3E	619/470 FT	MARKED/LGTD R	
LRIA_4449	ANTENNA	471056.0N 0272728.1E	619/470 FT	MARKED/LGTD R	
LRIA_4450	WINDMILL	465324.0N 0274005.6E	1562/484 FT	LGTD R	
LRIA_4451	WINDMILL	465323.2N 0273955.0E	1564/484 FT	LGTD R	
LRIA_4468	NAVAID	471108.1N 0273651.4E	404/12 FT	MARKED	
LRIA_4725	BUILDING	471023.7N 0273714.8E	425/86 FT	NIL	
LRIA_4728	ANTENNA	471038.5N 0273703.2E	442/88 FT	NIL	
LRIA_4732	NAVAID	471109.1N 0273650.2E	416/20 FT	MARKED/LGTD R	
LRIA_4747	POLE	471152.9N 0273632.6E	500/28 FT	LGTD R	
LRIA_4748	POLE	471151.8N 0273633.3E	495/43 FT	LGTD R	
LRIA_4751	BUILDING	471147.8N 0273627.6E	471/17 FT	NIL	
LRIA_4752	BUILDING	471147.4N 0273623.7E	476/21 FT	NIL	
LRIA_4753	BUILDING	471148.6N 0273616.3E	459/16 FT	NIL	
LRIA_4754	BUILDING	471149.0N 0273616.0E	453/10 FT	NIL	
LRIA_4756	POLE	470555.2N 0274010.1E	1374/90 FT	NIL	
LRIA_4757	POLE	470557.4N 0274009.9E	1381/99 FT	NIL	

In Area 3					
OBST ID/ Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
LRIA_2	NAVAID	471109.1N 0273650.6E	408.9/12.8 FT	MARKED/LGTD R	Electronic form of obstacle data sets for Area 3 are available (see GEN 3.1.6)
LRIA_4	NAVAID	471107.4N 0273650.5E	428.5/36.4 FT	MARKED/LGTD R	
LRIA_5	NAVAID	471022.3N 0273731.4E	376.2/33.7 FT	MARKED	
LRIA_7	NAVAID	471109.3N 0273650.4E	455.7/59.1 FT	MARKED/LGTD R	
LRIA_8	NAVAID	471110.7N 0273651.1E	422.1/24.2 FT	MARKED	
LRIA_9	NAVAID	471025.8N 0273731.0E	369.5/24.2 FT	MARKED	
LRIA_985	BUILDING	471038.2N 0273702.2E	401.6/49.9 FT	NIL	
LRIA_4440	POLE	471039.1N 0273703.7E	452.1/89.4 FT	NIL	
LRIA_4443	POLE	471036.2N 0273705.8E	465.3/104.7 FT	NIL	
LRIA_4444	POLE	471033.0N 0273708.1E	463.9/105.0 FT	NIL	
LRIA_4446	POLE	471029.8N 0273710.4E	462.1/105.3 FT	NIL	
LRIA_4447	POLE	471028.6N 0273710.3E	401.6/50.9 FT	NIL	
LRIA_4468	NAVAID	471108.1N 0273651.4E	404.0/11.8 FT	MARKED	
LRIA_4478	FENCE	471029.0N 0273710.4E	364.3/10.5 FT	NIL	
LRIA_4479	FENCE	471039.8N 0273702.7E	365.2/10.5 FT	NIL	
LRIA_4480	FENCE	471040.4N 0273702.7E	371.1/10.5 FT	NIL	
LRIA_4481	BUILDING	471038.2N 0273704.3E	377.6/13.3 FT	NIL	
LRIA_4482	BUILDING	471039.5N 0273703.0E	372.2/13.9 FT	NIL	
LRIA_4483	BUILDING	471039.7N 0273702.7E	372.2/13.9 FT	NIL	
LRIA_4484	BUILDING	471035.6N 0273706.3E	384.0/23.1 FT	NIL	
LRIA_4485	BUILDING	471033.6N 0273707.7E	384.0/23.1 FT	NIL	
LRIA_4487	BUILDING	471040.9N 0273703.1E	387.1/24.0 FT	NIL	
LRIA_4488	BUILDING	471041.2N 0273704.2E	387.2/24.0 FT	NIL	
LRIA_4490	BUILDING	471037.9N 0273703.3E	384.5/31.9 FT	NIL	

**LROD AD 2.1 AERODROME LOCATION INDICATOR AND NAME  
LROD - ORADEA / Oradea**

**LROD AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

1	ARP coordinates and site at AD	470124N 0215407E Runway centre.
2	Direction and distance from city	225°, 5 km from Oradea.
3	Elevation/Reference temperature/Mean low temperature	480 FT / 30.9°C / -10.4°C
4	Geoid ondulation at AD ELEV PSN	136 FT
5	MAG VAR/ Annual change	6°E (2020) / 7.2'E
6	AD Operator, address, telephone, telefax, e-mail, AFS, website	R.A. Aeroportul ORADEA Calea Aradului, Nr. 80, Oradea, cod 410223 Tel: +40-(0)259-416082 / 413952 / 410867 Tel: +40-(0)752-309232 (Operational Service) Telefax: +40-(0)259-413951 / 455641 AFS: LRODRAYD e-mail: airport@aeroportoradea.ro operational@aeroportoradea.ro WEB: www.aeroportoradea.ro SITA: OMRRAXH Tel: +40-(0)775-158956 (Handling Service) e-mail: handling@aeroportoradea.ro (Handling Service) SITA: OMRRAXH (Handling Service)
7	Types of traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	NIL

**LROD AD 2.3 OPERATIONAL HOURS**

1	AD Operator	W: 0500-1900; S: 0400-1800
2	Customs and immigration	As AD Operator
3	Health and sanitation	W: 0500-1900; S: 0400-1800.
4	AIS Briefing Office	As AD Operator
5	ATS Reporting Office (ARO)	As AD Operator
6	MET Briefing Office	As AD Operator
7	ATS	As AD Operator
8	Fueling	As AD Operator
9	Handling	As AD Operator
10	Security	As AD Operator
11	De-icing	As AD Operator
12	Remarks	Outside the operational hours services are available O/R submitted to the AD with 24 hours in advance.

**LROD AD 2.4 HANDLING SERVICES AND FACILITIES**

1	Cargo-handling facilities	16 luggage trolley, 2 mobile GPU (115V 400Hz and 1 28.5V), 2 Air Starter Unit (155 PPM), 1 towed toilet services vehicle for aircraft, 1 towed potable water service vehicle, 3 self-propelled baggage conveyor, 4 hydraulic towed passenger stair, 4 electric tractors, 2 minibuses for passengers and crews transportation, 1 towbarless towing/push-back tractor, 2 highloader, 25 dollies, 1 aircraft heater, 1 ACU.
2	Fuel/Oil types	Fuel Th type Jet A1 / NIL Fuel Th type AVGAS 100LL / NIL
3	Fueling facilities/capacity	1 refueling truck of 21 t for Jet A1, 2 refueling trucks of 16 t for Jet A1 1 refueling truck of 1 t for AVGAS 100LL
4	De-icing facilities	1 de-icing/anti-icing truck with liquid type I and type II
5	Hangar space for visiting aircraft	NIL
6	Repair facilities for visiting aircraft	NIL
7	Remarks	Preliminary information on the request handling services at the aerodrome will be sent to: Tel: +40-(0)775158956 (Handling Service) e-mail: handling@aeroportoradea.ro (Handling Service) SITA: OMRRAXH (Handling Service) Any other way of contact may cause delays at confirmation services.

**LROD AD 2.5 PASSENGER FACILITIES**

1	<i>Hotels</i>	Hotels in town.
2	<i>Restaurants</i>	Bar on the airport.
3	<i>Transportation</i>	Rent-a-car, taxis from the AD.
4	<i>Medical facilities</i>	First aid on the AD, hospitals in town.
5	<i>Bank and Post Office</i>	Exchange offices in town; A.T.M. on the AD
6	<i>Tourist Office</i>	In town.
7	<i>Remarks</i>	2 Rent-a-car Offices: Tel: +40-(0)723-648645; +40-(0)748-110348

**LROD AD 2.6 RESCUE AND FIRE FIGHTING SERVICES**

1	<i>AD category for fire fighting</i>	Within AD HR: CAT 7
2	<i>Rescue equipment</i>	1 electrical portable rescue equipment, 1 powered saw; 1 reciprocating saw.
3	<i>Capability for removal of disabled aircraft</i>	Only for code letter A aircraft, maximum wingspan 8,72 M. Airport Operation Center Contact: +40-(0)259-413951.
4	<i>Remarks</i>	Outside Ad hours, fire fighting services are available O/R.

**LROD AD 2.7 RUNWAY SURFACE CONDITION ASSESSMENT AND REPORTING, AND SNOW PLAN**

1	<i>Types of clearing equipment</i>	3 equipment with plough, brush and turbo blower, 3 tractors with blade, 1 tractor with blade and trailer, solid deicing spreader, 1 snow blower, 2 sweeping equipment and runway deicing, 2 airport surface friction testers.
2	<i>Clearance priorities</i>	1. RWY 19/01 2. TWA A, TWY B, TWY C, TWY E, TWY F, TWY D1, TWY D2 3. APRON 1, APRON 2
3	<i>Use of material for movement area surface treatment</i>	RWY de/anti-icing substances type used: Potassium acetate fluid (KAC).
4	<i>Specially prepared winter runways</i>	NIL
5	<i>Remarks</i>	Information on RWY surface condition in Global Reporting Format is published by SNOWTAM. See also the snow plan in section AD 1.2.2.

**LROD AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA**

1	<i>Apron designation, surface and strength</i>	APRON 1 Surface: Concrete Strength: 65/R/C/W/T	APRON 2 Concrete 62/R/C/W/T
2	<i>Taxiway designation, width, surface and strength</i>	TWY A, B, E Width: 18 M Surface: Concrete Strength: 62/R/C/W/T	Apron TWY C, D1, D2 Apron TWY F 18 M Concrete 62/R/C/W/T
3	<i>Altimeter checkpoint location and elevation</i>	NIL	
4	<i>VOR checkpoints</i>	NIL	
5	<i>INS checkpoints</i>	See Aircraft Parking/Docking Chart, AD 2.11-22, AD 2.11-23	
6	<i>Remarks</i>	RWY turn pad: Location: RWY 01 END, 520M before RWY 19 END, RWY 19 END Surface: Concrete Dimensions: 110 M x 25 M Strength: RWY 01 END - 62/R/C/W/T 520M before RWY 19 END - 61/R/C/W/T RWY 19 END - 62/R/C/W/T	

## LRSV AD 2.10 AERODROME OBSTACLES

In Area 2					
OBST ID/ Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
LRSV_1	ANTENNA	474113.2N 0262049.1E	1435/58FT	NIL/LGTD R	NIL
LRSV_5	ANTENNA	474057.1N 0262115.8E	1373/37FT	MARKED/LGTD R	
LRSV_7	ANTENNA	473945.2N 0260904.7E	2416/687FT	MARKED/LGTD R	
LRSV_33	BUILDING	474108.1N 0262101.6E	1416/54FT	NIL	
LRSV_34	BUILDING	474119.3N 0262049.7E	1437/58FT	NIL/LGTD R	
LRSV_42	BUILDING	474104.8N 0262134.8E	1380/54FT	NIL/LGTD R	
LRSV_57	TREE	474151.9N 0261737.3E	1550/98FT	NIL	
LRSV_62	TREE	474205.0N 0262100.7E	1399/37FT	NIL	
LRSV_63	TREE	474205.6N 0262101.2E	1391/29FT	NIL	
LRSV_64	TREE	474205.6N 0262100.6E	1392/30FT	NIL	
LRSV_66	TREE	474207.0N 0262058.4E	1417/56FT	NIL	
LRSV_67	TREE	474208.9N 0262057.7E	1409/49FT	NIL	
LRSV_68	TREE	474211.0N 0262056.3E	1414/555FT	NIL	
LRSV_69	TREE	474208.4N 0262056.5E	1409/49FT	NIL	
LRSV_71	TREE	474214.3N 0262053.7E	1398/38FT	NIL	
LRSV_105	POLE	474118.5N 0262048.2E	1440/60FT	NIL	
LRSV_106	POLE	474036.1N 0262206.4E	1414/99FT	NIL	
LRSV_107	POLE	474035.7N 0262205.4E	1416/101FT	NIL	
LRSV_112	NAVAID	474035.8N 0262205.9E	1384/69FT	NIL/LGTD R	
LRSV_133	CONTROL TOWER	474106.8N 0262102.4E	1429/72FT	NIL	
LRSV_134	ANTENNA	474101.7N 0262113.6E	1354/10FT	MARKED/LGTD R	
LRSV_136	ANTENNA	474053.4N 0262117.8E	1355/20FT	MARKED/LGTD R	
LRSV_137	ANTENNA	474051.4N 0262119.0E	1355/21T	MARKED/LGTD R	
LRSV_139	BUILDING	474053.4N 0262117.7E	1345/10FT	NIL/LGTD R	
LRSV_142	NAVAID	474053.3N 0262118.2E	1385/49FT	MARKED/LGTD R	
LRSV_143	TREE	474149.0N 0261819.2E	1558/98FT	NIL	
LRSV_144	POLE	474106.9N 0262102.2E	1435/78FT	NIL	
LRSV_145	POLE	474112.3N 0262101.1E	1432/64FT	MARKED/LGTD R	
LRSV_146	POLE	474105.8N 0262104.0E	1424/68FT	MARKED/LGTD R	
LRSV_148	TREE	474217.0N 0262053.6E	1444/82 FT	NIL	
LRSV_149	TREE	474211.9N 0262059.6E	1444/82FT	NIL	
LRSV_150	TREE	474151.7N 0262117.9E	1444/82FT	NIL	
LRSV_152	TREE	474314.9N 0261731.0E	1594/92FT	NIL	
LRSV_153	TREE	474152.4N 0261824.9E	1542/82FT	NIL	
LRSV_154	TREE	474201.7N 0261939.9E	1509/82FT	NIL	
LRSV_307	POLE	474159.2N 0262053.5E	1382/18FT	NIL	
LRSV_308	POLE	474159.6N 0262055.6E	1382/19FT	NIL	
LRSV_313	POLE	474107.7N 0262100.1E	1411/50FT	NIL	
LRSV_331	TREE	474109.5N 0262059.7E	1424/55FT	NIL	
LRSV_332	TREE	474109.4N 0262059.7E	1421/51FT	NIL	
LRSV_353	NAVAID	474159.4N 0262054.6E	1381/17FT	NIL	
LRSV_355	NAVAID	474137.8N 0262111.0E	1392/18FT	NIL	
LRSV_376	POLE	474106.7N 0262101.1E	1427/69FT	NIL	
LRSV_377	POLE	474108.0N 0262103.0E	1428/67FT	NIL	
LRSV_378	POLE	474110.2N 0262102.1E	1430/70FT	NIL	
LRSV_490	POLE	474140.8N 0261753.1E	1525/117FT	NIL	
LRSV_492	POLE	474131.1N 0261810.3E	1512/119FT	NIL	
LRSV_493	POLE	474122.6N 0261814.0E	1507/110FT	NIL	
LRSV_600	POLE	474143.7N 0261833.8E	1489/67FT	NIL	
LRSV_601	POLE	474137.9N 0261833.4E	1527/67FT	NIL	
LRSV_602	POLE	474132.1N 0261833.0E	1542/67FT	NIL	
LRSV_603	POLE	474126.2N 0261832.6E	1543/67FT	NIL	
LRSV_604	POLE	474120.5N 0261832.1E	1523/67FT	NIL	

In Area 3					
OBST ID/ Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
LRSV_33	BUILDING	474108.1N 0262101.6E	1416.0/54.1FT	NIL	NIL
LRSV_39	BUILDING	474114.0N 0262100.8E	1398.0/27.2FT	NIL	
LRSV_40	BUILDING	474113.0N 0262100.1E	1399.3/29.2FT	NIL	
LRSV_41	BUILDING	474114.9N 0262100.1E	1397.6/24.9FT	NIL/LGTD R	
LRSV_52	TREE	474114.8N 0262100.8E	1401.9/30.5FT	NIL	
LRSV_53	TREE	474114.8N 0262100.7E	1400.9/29.5FT	NIL	
LRSV_54	TREE	474114.7N 0262100.6E	1404.2/32.5FT	NIL	
LRSV_55	TREE	474114.6N 0262100.5E	1401.2/30.2FT	NIL	
LRSV_104	POLE	474110.3N 0262100.1E	1435.7/72.5FT	NIL	
LRSV_133	CONTROL TOWER	474106.8N 0262102.4E	1429.1/72.2FT	NIL	
LRSV_140	BUILDING	474114.2N 0262057.8E	1399.6/23.6FT	NIL/LGTD R	
LRSV_144	POLE	474106.9N 0262102.2E	1435.4/78.4FT	NIL	
LRSV_145	POLE	474112.3N 0262101.1E	1431.8/64.3FT	MARKED/LGTD R	
LRSV_146	POLE	474105.8N 0262104.0E	1424.5/67.9FT	MARKED/LGTD R	
LRSV_147	NAVAID	474119.2N 0262106.5E	1374.3/9.2FT	MARKED/LGTD R	



a	b	c	d	e	f
LRSV_316	POLE	474109.0N 0262101.2E	1401.7/40.2FT	NIL	NIL
LRSV_340	BUILDING	474116.3N 0262057.9E	1409.5/36.4FT	NIL	
LRSV_341	BUILDING	474114.5N 0262100.9E	1390.0/17.8FT	NIL	
LRSV_352	BUILDING	474110.6N 0262101.7E	1403.2/43.5FT	NIL	
LRSV_354	NAVAID	474115.8N 0262103.0E	1397.4/25.2FT	NIL	
LRSV_356	SIGN	474104.3N 0262117.6E	1350.2/2.6FT	NIL	
LRSV_357	SIGN	474110.8N 0262114.6E	1357.2/2.7FT	NIL	
LRSV_358	SIGN	474112.1N 0262114.1E	1358.5/2.6FT	NIL	
LRSV_359	SIGN	474118.7N 0262111.2E	1365.3/2.6FT	NIL	
LRSV_360	SIGN	474115.5N 0262108.3E	1363.5/3.2FT	NIL	
LRSV_361	SIGN	474115.4N 0262108.2E	1363.4/3.1FT	NIL	
LRSV_362	SIGN	474113.7N 0262109.0E	1362.2/3.2FT	NIL	
LRSV_364	SIGN	474107.7N 0262111.8E	1355.5/3.3FT	NIL	
LRSV_365	SIGN	474107.7N 0262111.7E	1355.5/3.3FT	NIL	
LRSV_366	SIGN	474105.9N 0262112.5E	1355.4/3.2FT	NIL	
LRSV_368	NAVAID	474054.4N 0262120.4E	1340.2/3.1FT	NIL	
LRSV_369	NAVAID	474054.5N 0262120.8E	1340.3/2.8FT	NIL	
LRSV_370	NAVAID	474054.6N 0262121.2E	1340.3/2.6FT	NIL	
LRSV_371	NAVAID	474054.7N 0262121.6E	1340.3/2.3FT	NIL	
LRSV_372	NAVAID	474139.2N 0262106.9E	1375.8/3.4FT	NIL	
LRSV_373	NAVAID	474139.1N 0262106.5E	1376.1/3.1FT	NIL	
LRSV_374	NAVAID	474139.1N 0262106.0E	1376.6/2.7FT	NIL	
LRSV_375	NAVAID	474139.0N 0262105.6E	1376.7/2.4FT	NIL	
LRSV_377	POLE	474108.0N 0262103.0E	1428.5/66.6FT	NIL	
LRSV_378	POLE	474110.2N 0262102.1E	1429.8/70.1FT	NIL	

### LRSV AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	SUCEAVA
2	Hours of service MET Office outside hours	H24 -
3	Office responsible for TAF preparation Periods of validity Interval of issuance	LROM 9 HR 3 HR, during aerodrome operational hours
4	Type of landing forecast Interval of issuance	NIL -
5	Briefing / consultation provided	Self-briefing; briefing/consultation on request (see row 8)
6	Flight documentation Language(s) used	Charts, tabular form, abbreviated plain language text Romanian, English
7	Charts and other information available for briefing or consultation	SWC, W/T Charts, SIGMET, METAR, TAF.
8	Supplementary equipment available for providing information	Tel / Fax: +40-(0)230-535603
9	ATS units provided with information	SUCEAVA TWR
10	Additional information (limitation of service, etc.)	NIL

**LRSV AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS**

Designations RWY NR	TRUE BRG	Dimensions of RWY (M)	Strength (PCN) and surface of RWY and SWY	THR coord RWY end coord THR geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY	Slope of RWY-SWY	
1	2	3	4	5	6	7	
34	343.15°	2460 x 45	110/F/CW/T Asphalt	474046.24N 0262127.35E 474149.46N 0262059.00E GUND 112 FT	THR 1331 FT -	0.8% (780 M) 1.0% (840 M) 0.5% (540 M) -0.45% (300 M)	
16	163.15°	2460 x 45	110/F/CW/T Asphalt	474149.46N 0262059.00E 474033.22N 0262133.18E GUND 112 FT	THR 1372 FT -	0.45% (300 M) - 0.5% (540 M) - 1.0% (840 M) - 0.8% (780 M)	
SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	RESA dimensions (M)	Location and description of ARST system		OFZ	Remarks
8	9	10	11	12	13	14	
NIL	145 x 180	2580 x 280	90 x 150	NIL	YES	Threshold displaced from the beginning of the runway by 420 m	
NIL	NIL	2580 x 280	175 x 150	NIL	NIL	NIL	

**LRSV AD 2.13 DECLARED DISTANCES**

RWY designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
34	2460	2605	2460	2040	NIL
16	2460	2460	2460	2460	NIL

**LRSV AD 2.14 APPROACH AND RWY LIGHTING**

RWY Designator	APCH LGT type LEN INTST	THR LGT colour WBAR	VASIS (MEHT) PAPI	TDZ, LGT LEN	RWY Centre Line LGT Length, spacing, colour, INTST	RWY edge LGT LEN, spacing, colour, INTST	RWY End LGT colour WBAR	SWY LGT LEN(M) colour	Remarks
1	2	3	4	5	6	7	8	9	10
34	CAT II 720 M LIH	Green WBAR	PAPI 3° (53FT)	White 900M	1140M, 15M White, LIH 600M, 15M White/Red, LIH 300M, 15M White, LIH	1440M, 60M, White, LIH 600M, 60M, Yellow, LIH	Red -	NIL	To be supplementary considered: C/L LGT White, 420M, 15M, LIH only on RWY 34 departure; Red edge lights, 420M, 60M, LIH, before THR, only for approach operations White edge LGT, 420M, 60M, LIH, before THR, only for departure operations.
16	SALS 420 M LIH	Green WBAR	PAPI 3° (60FT)	NIL	1560M, 15M White, LIH 600M, 15M White/Red, LIH 300M, 15M White, LIH	1860M, 60M, White, LIH 600M, 60M, Yellow, LIH	Red -	NIL	NIL



**LRSV AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY**

1	<i>ABN / IBN location, characteristics and hours of operation</i>	NIL
2	<i>LDI location and LGT Anemometer location and LGT</i>	NIL NIL
3	<i>TWY edge and centre line lighting</i>	TWY A, B TWY edge blue omnidirectional lights LIL, 60M (15M) spacing TWY centre line green/green ; yellow/green lights, 15M (7.5M) spacing TWY D TWY edge blue omnidirectional lights LIL, 52M spacing
4	<i>Secondary power supply/switch-over time</i>	Secondary power supply to all lighting on the AD, Switch-over time 1 SEC.
5	<i>Remarks</i>	NIL

**LRSV AD 2.16 HELICOPTER LANDING AREA**

1	<i>Coordinates TLOF or THR of FATO Geoid undulation</i>	NIL NIL
2	<i>TLOF and/or FATO elevation M/FT</i>	NIL
3	<i>TLOF and FATO area dimensions, surface, strength, marking</i>	NIL
4	<i>True and MAG BRG of FATO</i>	NIL
5	<i>Declared distance available</i>	NIL
6	<i>APP and FATO lighting</i>	NIL
7	<i>Remarks</i>	NIL

**LRSV AD 2.17 ATS AIRSPACE**

1	<i>Designation and lateral limits</i>	SUCEAVA CTR A circle, radius 22 NM centered at 474111N 0262116E (ARP), limited by FIR boundary.
2	<i>Vertical limits</i>	SFC to FL95
3	<i>Airspace classification</i>	C
4	<i>ATS unit call sign Language(s)</i>	Suceava Tower English, Romanian
5	<i>Transition altitude</i>	5000 FT AMSL
6	<i>Hours of applicability</i>	As ATS
7	<i>Remarks</i>	NIL

**LRSV AD 2.18 ATS COMMUNICATION FACILITIES**

<i>Service designation</i>	<i>Call sign</i>	<i>Channel/ Frequency</i>	<i>SATVOICE</i>	<i>Logon address</i>	<i>Hours of operation</i>	<i>Remarks</i>
1	2	3	4	5	6	7
TWR	Suceava Tower	129.955 118.300 MHz ALTN	NIL	NIL	As ATS	Exempted 8.33 kHz State aircraft.
APP	Suceava Tower	121.500 MHz EMERG 118.300 MHz	NIL	NIL	As ATS	Procedural service

AERODROME CHART - ICAO 47° 41' 11" N  
026° 21' 16" E

ELEV 1375FT

SUCEAVA TWR 129.955  
SUCEAVA TWR ALTN 118.300

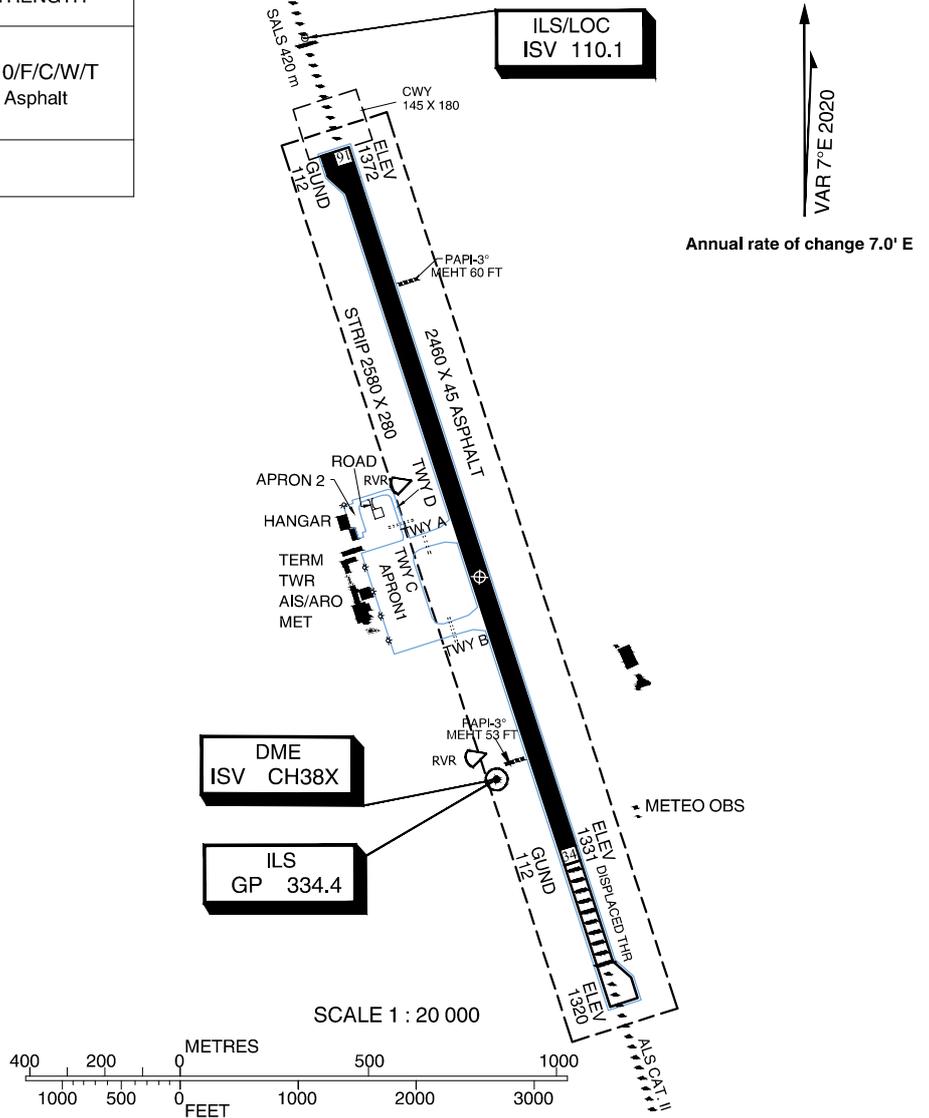
SUCEAVA /  
Ștefan cel Mare (LRSV)

RWY	DIRECTION	THR	BEARING STRENGTH
34	336°	47°40' 46"N 026°21' 27"E	110/F/C/W/T Asphalt
16	156°	47°41' 49"N 026°20' 59"E	
HELIPORT			

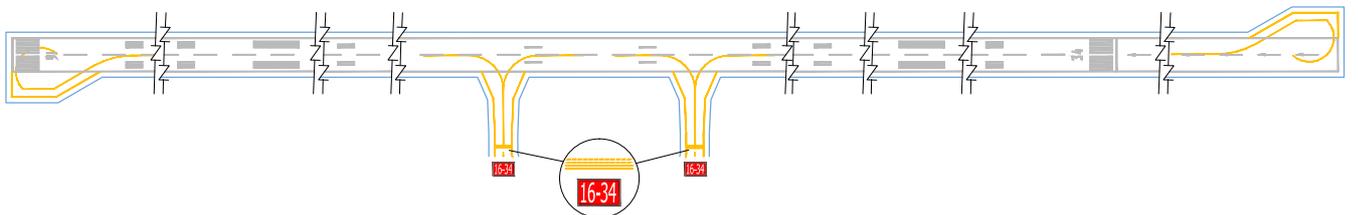
ELEVATIONS IN FEET  
DIMENSIONS IN METRES  
BEARINGS ARE MAGNETIC

Changes: STRIP values/MEHT added.

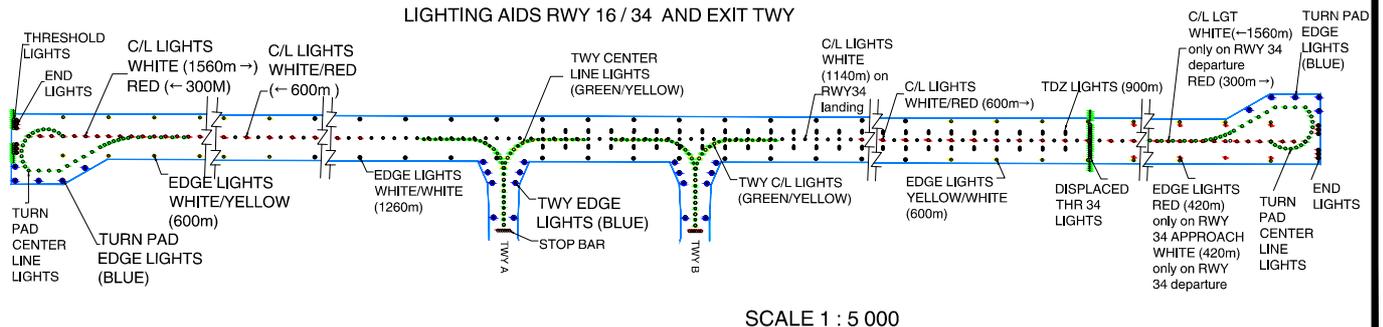
LEGEND	
FLOODLIGHTS	
AERODROME REFERENCE POINT	
RUNWAY-HOLDING POSITION	
BUILDING	
ATC SERVICE BOUNDARY	
MOVEMENT SURFACE BOUNDARY	



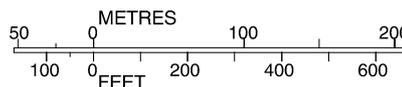
MARKING AIDS RWY 16 / 34 AND EXIT TWY



LIGHTING AIDS RWY 16 / 34 AND EXIT TWY



SCALE 1 : 5 000



**AERODROME OBSTACLE CHART - ICAO**  
TYPE A (OPERATING LIMITATIONS)

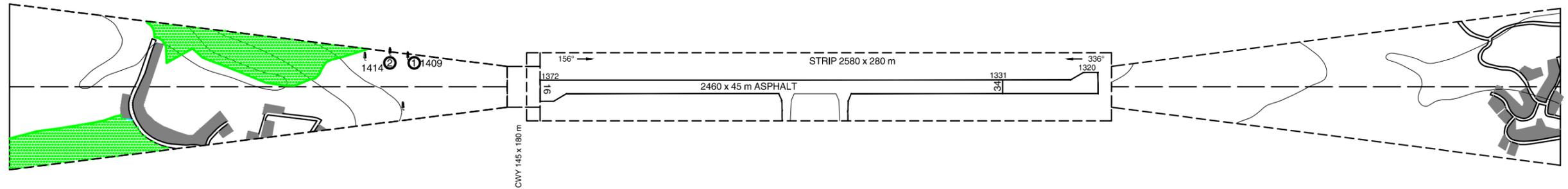
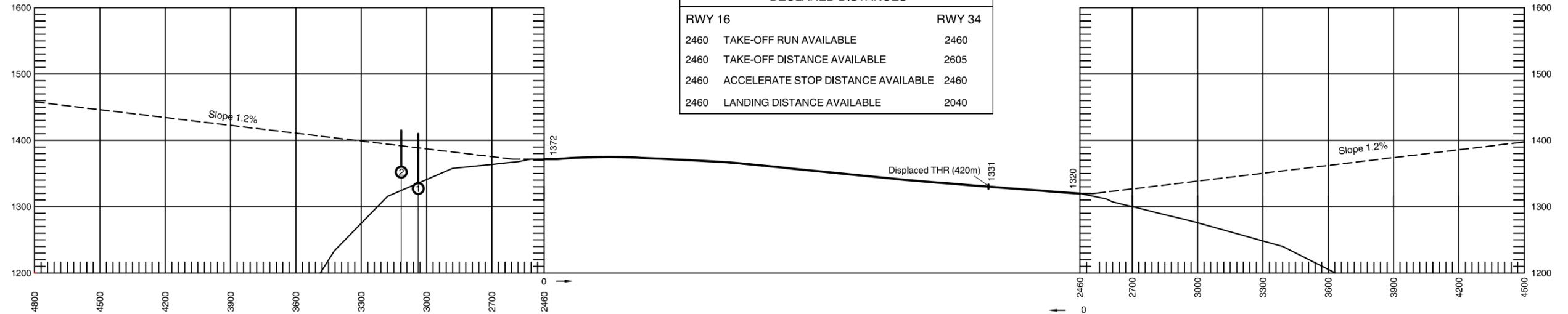
**SUCEAVA / Ștefan cel Mare**  
**(LRSV)**

ELEVATIONS IN FEET AND DIMENSIONS IN METRES

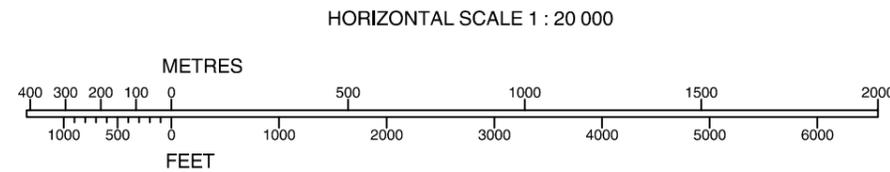
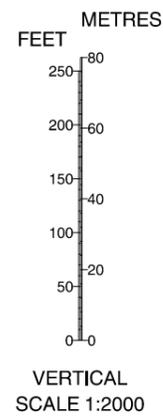
MAGNETIC VARIATION 7° E - 2020

**RWY 16 / 34**

DECLARED DISTANCES		
RWY 16		RWY 34
2460	TAKE-OFF RUN AVAILABLE	2460
2460	TAKE-OFF DISTANCE AVAILABLE	2605
2460	ACCELERATE STOP DISTANCE AVAILABLE	2460
2460	LANDING DISTANCE AVAILABLE	2040



Changes: STRIP value.



ORDER OF ACCURACY  
HORIZONTAL 0.5 METERS  
VERTICAL 0.5 FEET

LEGEND	
IDENTIFICATION NUMBER	①
POLE, TOWER, SPIRE, ANTENNA, etc.	⊙
BUILDING OR LARGE STRUCTURE	■
TREE OR SHRUB	↑
ROAD	══
CONTOUR LINE	~
FOREST	■

AMENDMENT RECORD		
NO.	DATE	ENTERED BY

**LRTR AD 2.1 AERODROME LOCATION INDICATOR AND NAME****LRTR - TIMIȘOARA / Traian Vuia****LRTR AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

1	ARP co-ordinates and site at AD	454835N 0212016E Runway center.
2	Direction and distance from city	45°, 11 km from Timișoara.
3	Elevation/Reference temperature/Mean low temperature	348 FT / 31.9°C / -9.8°C
4	Geoid undulation at AD ELEV PSN	142 FT
5	MAG VAR/ Annual rate of change	5°E (2017) / 7.2°E
6	AD Administration, address, telephone, telefax, e-mail, AFS, website	S.N. Aeroportul Internațional Timișoara Traian Vuia S.A., Str. Aeroport Nr. 2, 307200 Ghiroda, România Call Center: + 40-(0)256-386089 Fax: + 40-(0)256-490705 Tel/Fax Dispecerat: + 40-(0)256-493123 e-mail: office@aerotim.ro AFS: LRTRRAYD SITA: TSRAP8X Website: www.aerotim.ro
7	Types of traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	For operational (OPS) requests, use e-mail dispatch@aerotim.ro (H24).

**LRTR AD 2.3 OPERATIONAL HOURS**

1	AD Administration	H24
2	Customs and immigration	H24
3	Health and sanitation	H24
4	AIS Briefing Office	H24, see GEN 3.1-6.
5	ATS Reporting Office (ARO)	H24, see ENR 1.10-3.
6	MET Briefing Office	H24
7	ATS	H24
8	Fuelling	H24
9	Handling	H24
10	Security	H24
11	De-icing	H24
12	Remarks	Notification, on requested services, shall be addressed at: Fax: +40-(0)256-493123 (H24) AFTN: LRTRRAYD SITA: TSRAP8X (H24) Lack of prior notification may cause delays in service delivery. Aircraft having ACN higher than 46 are subject to prior permission request, in accordance with AD 2.20 Local aerodrome regulation point 1.1.2.

**LRTR AD 2.4 HANDLING SERVICES AND FACILITIES**

1	Cargo-handling facilities	1 hi-loader of 7t, 1 hi-loader of 5t, 5 conveyor belts, 2 fork-lifts, 6 ramp tractors, 20 cargo carts, 12 dollies for ULDs, 4 GPU, 1 Airstarter unit, 1 cooling/heating equipment, 1 potable water vehicle, 2 lavatory service vehicles, 3 airport passenger buses, 2 equipments for towing/push-back (1 with tow-bar for: ATR 42/72; CRJ-70,90,100; EMB170-195; A319,320,321; B737 200-800 and 1 towbarless for: A319,320,321; B737 300-800, B757).
2	Fuel/Oil types	Kerosene Th type JET A1/NIL
3	Fuelling facilities/capacity	NIL
4	De-icing facilities	2 de-icing/anti-icing units with type I and type II fluids
5	Hangar space for visiting aircraft	NIL
6	Repair facilities for visiting aircraft	NIL
7	Remarks	Preliminary briefing, requests of operating permissions on aerodrome and handling shall be sent only at: Fax: +40-(0)256-493123 (H24) AFTN: LRTRRAYD SITA: TSRAP8X (H24) Any other way of contact may cause delays.

**LRTR AD 2.5 PASSENGER FACILITIES**

1	Hotels	Hotels in the city.
2	Restaurants	Restaurant on the AD.
3	Transportation	Buses, taxis, rent-a-car.
4	Medical facilities	Ambulance and first aid on the AD. Hospitals in the city,.
5	Bank and Post Office	ATM on the AD. Bank and Post Office in the city.
6	Tourist Office	In the city
7	Remarks	NIL



**LRTR AD 2.14 APPROACH AND RWY LIGHTING**

RWY Designator	APCH LGT type LEN INTST	THR LGT colour WBAR	VASIS (MEHT) PAPI	TDZ,LGT LEN	RWY Centre Line LGT Length,spacing, colour, INTST	RWY edge LGT LEN, spacing, colour, INTST	RWY End LGT colour WBAR	SWY LGT LEN (M) colour	Remarks
1	2	3	4	5	6	7	8	9	10
11	ALSF II 900M LIH	Green WBAR	PAPI Left/3° (66 FT)	White, 900M	2600M, 15M, White, LIH 600M, 15M, Red/White, LIH, 300M, 15M, Red, LIH	2900M, 60M, White, LIH 600M, 60M, Yellow, LIH	Red -	NIL	Turn pad lights Green
29	ALSF II 900M LIH	Green WBAR	PAPI Left/3° (57 FT)	White, 900M	2600M, 15M, White, LIH 600M, 15M, Red/White, LIH, 300M, 15M, Red, LIH	2900M, 60M, White, LIH 600M, 60M, Yellow, LIH	Red -	NIL	RWY 29, LED lights used in the full length of the ALS

**LRTR AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY**

1	ABN / IBN location, characteristics and hours of operation	NIL
2	LDI location and LGT Anemometer location and LGT	NIL 91°, 483 M THR 11, LGT. 271°, 445 M THR 29, LGT.
3	TWY edge and centre line lighting	TWY A: centre line green lights spaced 15M apart (7.5M in curve), RWY guard lights, stop bar, TWY blue edge lights, exit TWY centre line lights yellow/green. TWY B: centre line green lights spaced 15M apart (7.5M in curve), RWY guard lights, stop bar, TWY blue edge lights, exit TWY centre line lights yellow/green. TWY C: centre line green lights spaced 15M apart (7.5M in curve), stop bar, TWY blue edge lights, exit TWY centre line lights yellow/green. TWY L: centre line green lights spaced 15M apart, TWY blue edge lights. Intensity 10, 30, 100 %. Apron TWY centre line green lights between TWY L and stand 08. Aircraft stand manoeuvring guidance green lights are installed at stand 08.
4	Secondary power supply/switch-over time	Secondary power supply to all lighting on the AD. Switch-over time 1 sec.
5	Remarks	Apron floodlights

**LRTR AD 2.16 HELICOPTER LANDING AREA**

1	Co-ordinates TLOF or THR of FATO Geoid undulation	NIL NIL
2	TLOF and/or FATO elevation M/FT	NIL
3	TLOF and FATO area dimensions, surface, strength, marking	NIL
4	True and MAG BRG of FATO	NIL
5	Declared distance available	NIL
6	APP and FATO lighting	NIL
7	Remarks	NIL

**LRTR AD 2.17 ATS AIRSPACE**

1	Designation and lateral limits	TIMIȘOARA CTR 455716N 0210806E - 454717N 0210258E - 453954N 0213226E - 454952N 0213732E - 455716N 0210806E
2	Vertical limits	GND to 2500 FT AMSL
3	Airspace classification	C
4	ATS unit call sign Language(s)	Timișoara TWR English, Romanian
5	Transition altitude	9000 FT (2750 M) AMSL
6	Hours of applicability	H24
7	Remarks	NIL

**LRTR AD 2.18 ATS COMMUNICATION FACILITIES**

Service designation	Call sign	Channel/ Frequency	SATVOICE	Logon address	Hours of operation	Remarks
1	2	3	4	5	6	7
APP	Arad Approach	123.530 126.350 MHz ALTN	NIL	NIL	H24	Exempted 8.33 kHz State aircraft. NIL
TWR	Timișoara Tower	120.105 129.450 MHz ALTN 121.500 MHz EMERG	NIL	NIL	H24	
Ground control	Timișoara Ground	121.600 MHz	NIL	NIL	H24	NIL
ATIS	Timișoara ATIS	123.125 MHz	NIL	NIL	H24	NIL

**LRTR AD 2.19 RADIO NAVIGATION AND LANDING AIDS**

Type of aid, MAG VAR Type of supported OPS ILS classification GBAS classification (For VOR/ILS/MLS give declination)	ID	Frequency / Channel	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna / ELEV of GBAS reference point	Service volume radius from the GBAS reference point	Remarks
1	2	3	4	5	6	7	8
LOC 29 (5°E/2017) ILS CAT III (III.E.4)	ITR	109.300 MHz	H24	454859.1N 0211842.0E	-	NIL	Front course angle 3,12°. No back course.
GP 29	-	332.000 MHz	H24	454816.2N 0212115.7E	-	NIL	GP Angle 3°. ILS RDH 56 FT
DME 29	ITR	109.300 MHz CH 30X	H24	454816.3N 0212115.9E	400 FT	NIL	NIL
LOC 11 (5°E/2017) ILS CAT III (III.E.4)	ITS	110.900 MHz	H24	454813.7N 0212142.6E	-	NIL	Front course angle 3,28°. No back course.
GP 11	-	330.800 MHz	H24	454854.7N 0211915.1E	-	NIL	GP Angle 3°. ILS RDH 55 FT
DME 11	ITS	110.900 MHz CH 46X	H24	454855.0N 0211915.4E	300 FT	NIL	NIL
NDB(LM)	TIM	338 KHz	H24	454804.7N 0212218.4E	-	NIL	106° MAG / 0.57 NM from THR 29
NDB(LM)	TSR	408 KHz	H24	454904.75N 0211819.46E	-	NIL	286° MAG / 0.51 NM from THR 11 Coverage 50NM (declared)
DVOR/DME (5°E/2017)	ARD	109.000 MHz CH 27X	H24	461102.7N 0210837.0E	400 FT	NIL	Coverage 175 NM (assumed)
DME	LGJ	1091.000 MHz CH 67X	H24	454311.0N 0215942.0E	800 FT	NIL	Coverage 100 NM (declared) Unusable in sector 065°- 180°
DME	CNI	1127.000 MHz CH 103X	H24	454258.0N 0205427.0E	300 FT	NIL	Coverage 100 NM (declared)
DME	SAC	1072.000 MHz CH 48X	H24	453345.9N 0214323.9E	1300 FT	NIL	Coverage 100 NM (assumed)
DME	SIR	1117.000 MHz CH 93X	H24	461554.9N 0213949.5E	1800 FT	NIL	Coverage 100 NM (assumed)

**LRTR AD 2.20 LOCAL AERODROME REGULATIONS****1. Airport regulations / Reglementări de aeroport****1.1 Procedures for acceptance of the aircraft on airfield pavements****1.1.1 Pavements bearing strength details:**

- RWY 11: - first 2500m – PCN 72/R/D/W/T  
- last 1000m – PCN 44/R/D/W/T
- TWY A – PCN 71/R/D/W/T
- TWY B – PCN 43/R/D/W/T
- TWY C – PCN 54/R/D/W/T
- TWY L – PCN 54/R/D/W/T
- Stands 1...3 – PCN 42/R/B/W/T
- Stands 4...7 – PCN 35/R/B/W/T
- Stands 8, 9 – PCN 54/R/B/W/T
- Stands 10...14 – PCN 54/R/B/W/T

**1.1.2** Before landing at the airport or before declaring LRTR as an alternate, for aircraft with maximum ACN higher than 46 for rigid pavements subgrades D, operators are required to contact airport administration for authorization to operate at the aerodrome.

**1.1.3** Rules for aircraft with actual ACN higher than 46 for rigid pavements subgrades code D:

- a) only land on RWY 29, unless the wind does not permit doing so;
- b) will be parked on position 08, and stands 04-07 will be used as a reserve;
- c) take off on RWY 11, unless the wind does not permit doing so.

**1.2** Turn around on runway is permitted only at turn pad at RWY 11 END.

**1.3 Use of airport by higher code letter aircraft**

**1.3.1** LRTR airport reference code letter is 4D. In this context, aircraft with higher code than 4D means wingspan greater than 52m.

**1.3.2** Aircraft with code higher than aerodrome code 4D (wingspan greater than 52m):

- a) shall obtain aerodrome operator's prior approval; request will be sent at [safety@aerotim.ro](mailto:safety@aerotim.ro) or [dispatch@aerotim.ro](mailto:dispatch@aerotim.ro) minimum 60 days before flight;
- b) in case of declared emergency situation may use LRTR without prior approval.

**1.3.3** Standard taxi routes restrictions for higher code letter aircraft:

- a) Land only on RWY 29, unless the wind does not permit doing so;
- b) Take off only on RWY 11, unless the wind does not permit doing so;
- c) Turn pad dimensions at the end of runway 11 are 100m x 27m and the pavement strength is 45/R/D/W/T;
- d) Runway vacate is prohibited on TWY C;
- e) Aircraft with a wingspan greater than 52m, for runway vacate or runway access, shall use TWY B (recommended);
- f) Parking of aircraft with a higher letter code will be used at stand 08 in accordance with the marshaller signals.

**1.1 Proceduri de admisibilitate a aeronavelor pe suprafața de mișcare****1.1.1 Detalii asupra portanței suprafețelor de mișcare:**

- RWY 11: - primii 2500m – PCN 72/R/D/W/T  
- ultimii 1000m – PCN 44/R/D/W/T
- TWY A – PCN 71/R/D/W/T
- TWY B – PCN 43/R/D/W/T
- TWY C – PCN 54/R/D/W/T
- TWY L – PCN 54/R/D/W/T
- Stands 1...3 – PCN 42/R/B/W/T
- Stands 4...7 – PCN 35/R/B/W/T
- Stands 8, 9 – PCN 54/R/B/W/T
- Stands 10...14 – PCN 54/R/B/W/T

**1.1.2** Înainte de operarea pe aeroport sau înainte de a declara LRTR ca aeroport de rezervă, pentru aeronavele cu ACN maxim mai mare decât 46 pentru suprafață rigidă D, operatorii sunt avertizați să ia legătura cu administrația aeroportului pentru obținerea autorizării de a opera pe aerodrom.

**1.1.3** Reguli pentru aeronavele cu ACN real mai mare de 46 pentru suprafață rigidă categoria D:

- a) se va ateriza doar pe pista 29, cu excepția cazului în care vântul nu permite a se proceda astfel;
- b) vor fi parcate pe poziția 08, și ca rezervă vor fi utilizate standurile 04-07;
- c) se va decola doar pe pista 11, cu excepția cazului în care vântul nu permite a se proceda astfel.

**1.2** Întoarcerea aeronavelor pe pistă este permisă doar pe platforma de întoarcere de la sfârșitul pistei 11.

**1.3 Utilizarea aeroportului de către aeronave cu literă de cod superioară**

**1.3.1** Litera de cod a LRTR este 4D. În acest context, aeronave de cod superior decât 4D, înseamnă aeronave cu anvergură mai mare de 52m.

**1.3.2** Aeronavele cu litera de cod superioară celei de referință a aerodromului 4D (anvergură mai mare de 52m):

- a) trebuie să obțină în prealabil aprobarea operatorului de aerodrom; solicitarea va fi transmisă pe adresele [safety@aerotim.ro](mailto:safety@aerotim.ro) și [dispatch@aerotim.ro](mailto:dispatch@aerotim.ro) cu minim 60 zile înaintea zborului;
- b) în cazul unei situații de urgență declarate, pot utiliza LRTR fără aprobare prealabilă.

**1.3.3** Restricții privind rutele standard de rulare pentru aeronavele cu literă de cod superioară:

- a) Se va ateriza doar pe direcția 29, cu excepția cazului în care vântul nu permite a se proceda astfel;
- b) Se va decola doar pe direcția 11, cu excepția cazului în care vântul nu permite a se proceda astfel;
- c) Dimensiunile platformei de întoarcere la sfârșitul pistei 11 sunt: 100m x 27m, iar rezistența pavajului este 45/R/D/W/T;
- d) Este interzisă degajarea pistei pe TWY C;
- e) Aeronavele cu anvergură mai mare de 52m, pentru degajarea pistei sau accesul la pistă, vor folosi TWY B (recomandat);
- f) Parcarea aeronavelor cu literă de cod superioară se va face la stand-ul 08 în conformitate cu semnalele marșaler-ului.



**1.3.4** Taxiing of aircraft with a higher letter code on the apron surface is allowed only with Follow-Me accompanying the taxiing aircraft, the pilot must follow its signals exactly and be in permanent radio contact with TWR Timisoara throughout the taxi maneuvers.

**1.3.5** Follow-me cars are identifiable by a functioning lighting signals ramp (Follow Me) and orange omnidirectional light/flashing light.

**1.3.6** On the aprons aircraft are permitted to taxi only at the indispensable minimum engine thrust.

**1.3.7** Wing-walkers will be positioned taxiing TWY M on the apron along the aircraft parked to the south and north.

**1.3.8** At departure aircraft may leave nose-in positions only by the aid of towing cars.

**1.3.4** Rularea aeronavelor cu literă de cod superioară pe suprafața platformei este permisă doar cu însoțirea Follow-Me a aeronavei în rulaj, pilotul trebuie să urmeze întocmai semnalele acestuia și să fie în legătură radio permanentă cu TWR Timișoara pe toată perioada manevrelor de rulare.

**1.3.5** Vehiculele Follow-Me sunt identificabile prin rampele luminoase de semnalizare (Follow-Me) și girofar de culoare orange.

**1.3.6** Rularea aeronavelor cu literă de cod superioară pe platformă este permisă numai la un regim de turație al motoarelor care să permită deplasarea aeronavei.

**1.3.7** Se vor poziționa wing-walkeri la rulajul pe TWY M pe platformă pe lângă aeronavele parcate pe sud și pe nord.

**1.3.8** Ieșirea aeronavelor din pozițiile de staționare nose-in se face numai cu echipamente de tractare/împingere.

## 2. Standard Taxi Routes / Rutele Standard de Rulare

### 2.1 Arrival information

Arrival on	Instruction given by ATC				Taxiway to be followed	Remarks:
		Standard Taxi Route				
RWY 11	Taxi via standard taxi route	ARR 1A	To Apron	Stand number 01...14	TWY C, TWY L, TWY M	wing span ≤ 36m
		ARR 1B			Taxi to the end of RWY, turn 180°, TWY C, TWY L, TWY M	wing span ≤ 36m
		ARR 1C			Taxi to the end of RWY, turn 180°, TWY B, TWY M	wing span ≤ 52m
		ARR 1D			Taxi to the end of RWY, turn 180°, TWY A, TWY M	wing span ≤ 52m
RWY 29	Taxi via standard taxi route	ARR 2A	To Apron	Stand number 01...14	TWY C, TWY L, TWY M	wing span ≤ 36m
		ARR 2B			TWY B, TWY M	wing span ≤ 52m
		ARR 2C			TWY A, TWY M	wing span ≤ 52m



## 2.2 Departure Information

Departure from	Instruction given by ATC				Taxiway to be followed	Remarks: Only for this aircraft category (in compliance with Annex 14 ICAO)	
		Name of the Standard Taxi Route					
Apron	Taxi via standard taxi route	DEP 1A	To holding point	A	RWY 11	TWY A	wing span < 52m
		DEP 1B		B		TWY B, take off from TWY B intersection, TORA 3101m	wing span < 52m
		DEP 1C		B		TWY B, turn left, taxi to the end of RWY and line-up THR	wing span < 36m
		DEP 1D		C		TWY L, TWY C, take off from TWY C intersection, TORA 1920m	wing span < 36m
		DEP 1E				TWY L, TWY C, turn left, taxi to the end of RWY and line-up THR	wing span < 36m
	Taxi via standard taxi route	DEP 2A	To holding point	A	RWY 29	TWY A, turn right, taxi to the end of RWY and line-up THR	wing span < 52m
		DEP 2B		B		TWY B, turn right, taxi to the end of RWY and line-up THR	wing span < 52m
		DEP 2C		C		TWY L, TWY C, take off from TWY C intersection, TORA 1614m	wing span < 36m
DEP 2D		TWY L, TWY C, turn right, taxi to the end of RWY and line-up THR				wing span < 36m	

## 3. APRON MANAGEMENT/ ADMINISTRAREA PLATFORMEI

**3.1** At Timișoara - Traian Vuia Airport, apron management is coordinated between aerodrome operator and air traffic service provider.

**3.2** Air to ground communications facilities designated to be used on the apron:

Service designation	Call sign	Channel (s) /frequency	Hours of operation	Remarks
Information on stand allocation	Timișoara Ground	According to LRTR AD 2.18 ATS COMMUNICATION FACILITIES		
Start up clearances, push-back clearances if required, and taxi instructions				

**3.1** Pe Aeroportul Timișoara - Traian Vuia, administrarea platformei este coordonată între operatorul de aerodrom și furnizorul serviciilor de trafic aerian.

**3.2** Facilitățile de comunicații aer-sol desemnate pentru a fi utilizate pe platforma:

Tip serviciu	Indicativ de apel	Canal(e) /frecvență	Ore de funcționare	Observații
Informarea privind alocarea poziție de parcare	Timișoara Ground	Conform LRTR AD 2.18 ATS COMMUNICATION FACILITIES		
Autorizații de pornire, împingerea aeronavei, dacă este cazul și de rulaj				

**3.3** Aircraft parking at stands shall be in accordance with marshaller signs and signals.

**3.4** While aircraft are taxiing on the apron, it is recommended to use engine thrust as low as possible.

**3.3** Parcarea aeronavelor la standuri se face cu respectarea semnelor și semnalelor Dispecerului Sol.

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



**3.5** After landing on Runway 11/29, helicopters will taxi to the apron using the taxiways.

Helicopters with wheeled landing gear are not allowed to air-taxi on the apron.

At take-off helicopters will taxi to Runway 11/29 using taxiways.

**3.6** Aircraft will exit nose-in parking position (01-07 and 09-14) using aircraft towing/ pushing equipment, or by self-propulsion. During the period of the Low Visibility Procedures (LVP), exit from the parking position by self-propulsion is prohibited.

**3.7** Aircrafts with dangerous goods on bord shall be parked at parking positions 09-14 or at the isolated parking position.

**3.8** TWY A, TWY B and TWY L are designated holding areas for arriving aircraft if no parking positions are available on the apron.

**3.5** După aterizarea pe Pista 11/29, elicopterele vor rula către platforma de parcare utilizând căile de rulare.

Pe platformă este interzis rulajul aerian pentru elicopterele cu tren de aterizare dotat cu roți.

La decolare elicopterele vor rula către Pista 11/29 utilizând căile de rulare.

**3.6** Aeronavele vor ieși din pozițiile de parcare nose-in (01-07 și 09-14) cu ajutorul echipamentului de tractare/împingere aeronave, sau prin propulsie proprie. În perioada aplicării procedurilor de vizibilitate redusă (LVP), ieșirea din poziția de parcare prin propulsie proprie, este interzisă.

**3.7** Aeronavele care dețin bunuri periculoase la bord, vor fi parcate pe pozițiile: 09-14 sau la poziția izolată de parcare.

**3.8** TWY A, TWY B și TWY L sunt desemnate zone de așteptare pentru aeronave, dacă nu există locuri de parcare disponibile pe platformă.

## LRTR AD 2.21 NOISE ABATEMENT PROCEDURES

See AD 1.1-3

## LRTR AD 2.22 FLIGHT PROCEDURES

### 1. LOW VISIBILITY PROCEDURES

#### 1. Description of facilities

1.1 Runway 11 is equipped with ILS and is approved for CAT III A (RVR not less than 175 m) operations and for LVTO (RVR not less than 75m) operations.

Runway 29 is equipped with ILS and is approved for CAT III A (RVR not less than 175 m) operations and for LVTO (RVR not less than 75m) operations.

#### 2. Criteria for the initiation and termination of LVP

##### 2.1 Approach and landing

- The preparation phase will be implemented when horizontal visibility falls below 1500m and is deteriorated to 800m or ceiling is 300ft and is deteriorated to 200ft and CAT II/III operations are expected.
- The operations phase will be commenced when the RVR falls below to 550m (visibility falls below 800m) or ceiling is below 200ft.
- LVP will be terminated when RVR is greater than 1500m and ceiling is greater than 300ft and a continuing improvement in these conditions is anticipated.

##### 2.2 Take-off

- LVP operations will be provided when requested by an aircraft operator to conduct LVTO when the RVR is below 400M.
- If LVP operations are not in force, LVTO must be requested a minimum of 30 minutes in advance to permit the appropriate preparations.

#### 3. Details of runway exits

3.1 Runway exits are equipped with green / yellow coded taxiway centerline lights.

#### 4. Any ground movement restrictions

4.1 Aircraft movements on manoeuvring area to/from RWY 11/29 should be made using the Standard Taxi-Routes.

4.2 Upon receiving taxi clearance, aircraft must only proceed when a green centreline path is illuminated.

### 1. PROCEDURI ÎN CONDIȚII DE VIZIBILITATE REDUSĂ

#### 1. Descrierea facilităților

1.1 Pista 11 este echipată cu ILS și este autorizată pentru desfășurarea operațiunilor CAT IIIA (RVR nu mai mic de 175m) și pentru LVTO (RVR nu mai mic de 75m).

Pista 29 este echipată cu ILS și este autorizată pentru desfășurarea operațiunilor CAT IIIA (RVR nu mai mic de 175m) și pentru LVTO (RVR nu mai mic de 75m).

#### 2. Criterii pentru inițierea și terminarea LVP

##### 2.1 Apropierea și aterizarea

- Faza de pregătire va fi implementată atunci când vizibilitatea orizontală scade sub 1500m și are tendința de 800m sau plafonul este de 300ft și are tendința de 200ft și sunt prevăzute declanșarea operațiunilor CAT II/III.
- Faza operațională va fi declanșată atunci când valoarea RVR scade sub 550m (vizibilitatea orizontală scade sub 800m) sau plafonul este sub 200ft
- Procedurile în condiții de vizibilitate redusă vor fi încheiate atunci când valoarea RVR este mai mare de 1500m și plafonul este mai mare de 300ft și este anticipată îmbunătățirea continuă a acestor condiții.

##### 2.2 Decolarea

- Operațiunile în condiții de vizibilitate redusă vor fi declanșate când există solicitarea unui operator aerian să decoleze când valoarea RVR este mai mică de 400m.
- Dacă procedurile în condiții de vizibilitate redusă nu sunt declanșate, LVTO trebuie solicitată cu 30 minute înainte pentru a permite pregătirile corespunzătoare LVTO.

#### 3. Detalii privind eliberarea pistei

3.1 Racordurile pistei cu căile de rulare sunt echipate cu lumini axiale codificate verde/galben.

#### 4. Restricții privind mișcarea la sol

4.1 Toate mișcările pe suprafața de manevră spre/dinspre pista 11/29 trebuie făcute utilizând Rutele de Rulare Standard.

4.2 După obținerea autorizării de rulare, aeronava trebuie să înceapă rularea doar atunci când luminile axiale au fost aprinse.

4.3 During LVTO, taxiing is normally restricted to one aircraft movement at a time. Operation of vehicles on the manoeuvring area is not permitted when LVTO is in progress.

## 5. Description of LVP

### 5.1 CAT II/III Approach and Landing

a) Pilots will be informed by ATIS or RTF when LVP are in operation;

b) The localizer sensitive area will be protected when a landing aircraft is within 4 NM from touchdown. ATC will provide suitable spacing between aircraft on final approach to achieve this objective.

When an aircraft performing an instrument approach is at less than 4 NM on final and until landing of that aircraft, taxi clearance on the maneuvering area of other aircraft shall not be given.

c) No aircraft will be holding on TWY B or C during ILS approaches on RWY 11.

d) After landing, the pilot will report to the Tower that "Runway is vacated via TWY \_\_, out of CAT\_\_holding point TWY \_\_".

### 5.2 Low Visibility Take Off

a) Aircraft movements on the apron must be carried out with the direction of a "FOLLOW ME" car.

### 5.3 Simulated CAT II / III Approaches

a) Prior to performing a simulated CAT II/III approach is mandatory that the pilot passes this request to the TWR. This request has to be made timely so the TWR can enforce all the relevant procedures. Timisoara TWR can authorize a simulated CAT II/III approach only after all relevant procedures are in force.

## 2. P-RNAV REQUIREMENTS

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

RNAV-1 (P-RNAV) approved aircraft operators shall insert designator "P" in Item 10 of the flight plan according to ICAO Doc 7030 Regional Supplementary Procedures.

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

On both RWY directions, tactical points for non-standard shorter approach are established: for arrivals Timisoara RWY 11 - REP DIDIX, for arrivals Timisoara RWY 29 - WPT TR221. These points may be used only after request/approval of air crews.

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

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

4.3 În timpul LVTO rularea pe suprafața de manevră este restricționată la o singură aeronavă. Operarea vehiculelor pe suprafața de manevră nu este permisă când LVTO este în desfășurare.

## 5. Descrierea procedurilor în condiții de vizibilitate redusă

### 5.1 Apropierea și aterizarea CAT II/III

a) Piloții vor fi informați RTF atunci când procedurile LVP sunt operaționale;

b) Zona sensibilă ILS va fi protejată atunci când o aeronavă care aterizează se află la 4NM de punctual de contact. CTA va asigura eșalonarea corespunzătoare între aeronavele aflate pe apropierea finală în vederea îndeplinirii acestui obiectiv.

Din momentul în care o aeronavă se află în procedura de apropiere la mai puțin de 4 NM față de zona de contact și până când aceasta aterizează, nu se autorizează rulajul altei aeronave pe suprafața de manevră.

c) Nu se permite prezența nici unei aeronave la pozițiile de așteptare pe căile de rulare „B” sau „C” în timpul apropierii pe direcția 11.

d) După aterizare pilotul trebuie să informeze CTA TWR cu privire la depășirea poziției de așteptare la pista CAT II.

### 5.2 Decolarea în condiții de vizibilitate redusă

a) Mișcarea aeronavelor pe suprafața de parcare trebuie efectuată cu asistența serviciului "FOLLOW ME".

### 5.3. Apropieri în condiții simulate LVO

a) Înainte de efectuarea unei simulări de apropiere CAT II/III, pilotul este obligat de a transmite solicitarea către TWR Timișoara. Această solicitare trebuie adresată la un moment de timp care să permită luarea tuturor măsurilor necesare efectuării acestui tip de apropiere. TWR Timișoara va aproba apropieri în condiții simulate LVO după îndeplinirea tuturor condițiilor.

## 2. CERINȚE P-RNAV

În TMA Arad, procedurile SID și STAR RNAV sunt bazate pe senzori DME/DME și sunt proiectate în conformitate cu criteriile RNAV-1 (P-RNAV). Este necesară deținerea unei aprobări pentru operațiuni RNAV-1 (P-RNAV) pentru a utiliza aceste proceduri fără restricții suplimentare.

Operatorii aeronavelor certificați RNAV-1 (P-RNAV) trebuie să insereze indicatorul "P" în câmpul 10 al planului de zbor în conformitate cu Doc. OACI 7030 – Proceduri regionale suplimentare.

ATC poate autoriza rute directe/mai scurte ori de câte ori este posibil (în special în afara perioadelor de vârf). Interceptarea direcției apropierii finale se face de obicei prin vectorizare radar pentru a facilita traficul, precum și în scopul asigurării eșalonării.

Pe ambele direcții ale pistei sunt stabilite puncte tactice pentru apropieri non-standard mai scurte: pentru sosiri Timișoara RWY 11 - REP DIDIX, pentru sosiri Timișoara RWY 29 - WPT TR221. Aceste puncte pot fi utilizate doar după solicitare/aprobare de către pilot.

Informații privind planificarea profilului vertical: se recomandă ca pilotul să planifice profilul având în vedere o posibilă autorizare de coborâre în conformitate cu restricțiile de altitudine precizate pe hărțile STAR. ATC va da o autorizare de coborâre actualizată.

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



### 3. RADIO COMMUNICATION FAILURE PROCEDURE FOR IFR FLIGHTS

#### a) General procedure when no STARs are in use

Set transponder to 7600 and continue flight at the last flight level/altitude assigned by ATC to TSR NDB. Descend in holding pattern over TSR NDB, then execute an instrument approach procedure.

#### b) Communication failure procedure when conducting a P-RNAV or conventional SID

Set transponder to 7600. Continue on assigned and acknowledged SID. After 2 minutes climb to FPL flight level. If being vectored, continue on assigned heading for 2 minutes, then proceed direct to last SID (WPT or REP, as appropriate) climbing to FPL flight level.

#### c) Communication failure procedure when conducting a P-RNAV STAR

If STAR was assigned and acknowledged by air crew, set transponder to 7600, continue with FPL and assigned STAR, then execute an ILS or NDB approach and land. Descending shall be executed in accordance with vertical restrictions specified on chart after 2 minutes from setting 7600.

If STAR was assigned and acknowledged by air crew and vectoring was initiated, set transponder to 7600 and continue on assigned heading and last cleared and acknowledged altitude for 2 minutes from setting 7600. Then proceed direct FAP/FAF and execute an ILS or NDB approach and land. Descending shall be executed in accordance with vertical restrictions specified on chart.

If STAR was not assigned, set transponder to 7600, proceed according to FPL and FPL STAR, execute an ILS or NDB approach and land. Descending shall be executed in accordance with vertical restrictions specified on chart after 2 minutes from setting 7600. If landing is not possible execute missed approach and proceed to FAP/FAF of most convenient RWY, execute an ILS or NDB approach and land.

#### d) Communication failure procedure when conducting a CONVENTIONAL STAR

If STAR was assigned and acknowledged by air crew, set transponder to 7600, continue with FPL and assigned STAR, then execute an ILS or NDB approach and land. Descending shall be executed in accordance with vertical restrictions specified on chart after 2 minutes from setting 7600.

If STAR was assigned and acknowledged by air crew and vectoring was initiated, set transponder to 7600 and continue on assigned heading and last cleared and acknowledged altitude for 2 minutes from setting 7600. Then proceed direct to TSR NDB and execute an ILS or NDB approach and land. Descending shall be executed in accordance with vertical restrictions specified on chart.

If STAR was not assigned, set transponder to 7600, proceed according to FPL and FPL STAR, execute an ILS or NDB approach and land. Descending shall be executed in accordance with vertical restrictions specified on chart after 2 minutes from setting 7600.

### 3. PROCEDURA PENTRU ZBORURI IFR ÎN CAZUL ÎNTRERUPERII COMUNICAȚIILOR RADIO

#### a) Procedura generală pentru cazul când nu sunt disponibile rute STAR

Setați transponderul 7600 și continuați zborul la ultimul FL/altitudine alocat de ATC către TSR NDB. Coborâți în procedura de așteptare TSR NDB, apoi executați o procedură de apropiere instrumentală.

#### b) Procedura pentru cazul întreruperii comunicațiilor în timpul executării unei rute SID convenționale sau P-RNAV

Setați transponderul 7600. Continuați pe ruta SID alocată și confirmată. După 2 minute urcați la nivelul de zbor prevăzut în FPL. În cazul vectorizării, continuați pe capul alocat timp de 2 minute, apoi procedați direct către ultimul punct semnificativ al rutei SID, urcând la nivelul de zbor prevăzut în FPL.

#### c) Procedura pentru întreruperea comunicațiilor în timpul executării unei rute STAR P-RNAV

În cazul în care ruta STAR a fost alocată și confirmată de pilot, setați transponderul 7600, continuați conform FPL și rutei STAR alocate, apoi executați o procedură de apropiere instrumentală ILS sau NDB și aterizați. Coborârea trebuie executată în conformitate cu restricțiile verticale precizate pe hartă, după 2 minute de la setarea 7600.

În cazul în care ruta STAR a fost alocată și confirmată de pilot și a fost inițiată vectorizarea, setați transponderul 7600 și continuați pe capul alocat și ultima altitudine autorizată și confirmată timp de 2 minute de la setarea 7600. Apoi procedați direct către FAF/FAF și executați o procedură de apropiere instrumentală ILS sau NDB și aterizați. Coborârea trebuie executată în conformitate cu restricțiile verticale precizate pe hartă.

În cazul în care ruta STAR nu a fost alocată, setați transponderul 7600, procedați conform FPL și rutei STAR inclusă în FPL, executați o procedură de apropiere instrumentală ILS sau NDB, apoi aterizați. Coborârea trebuie executată în conformitate cu restricțiile verticale precizate pe hartă, după 2 minute de la setarea 7600. Dacă aterizarea nu este posibilă, executați procedura de întrerupere a apropierii și procedați către FAF/FAF al pistei celei mai convenabile, executați procedura de apropiere instrumentală ILS sau NDB și aterizați.

#### d) Procedura pentru întreruperea comunicațiilor pe timpul executării unei rute STAR convenționale

În cazul în care o rută STAR a fost alocată și confirmată de pilot, setați transponderul 7600, continuați conform FPL și rutei STAR alocate, apoi executați o procedură de apropiere instrumentală ILS sau NDB și aterizați. Coborârea trebuie executată în conformitate cu restricțiile verticale precizate pe hartă, după 2 minute de la setarea 7600.

În cazul în care ruta STAR a fost alocată și confirmată de pilot și a fost inițiată vectorizarea, setați transponderul 7600 și continuați pe capul alocat și ultima altitudine autorizată și confirmată timp de 2 minute de la setarea 7600. Apoi procedați direct către TSR NDB, executați o procedură de apropiere instrumentală ILS sau NDB și aterizați. Coborârea trebuie executată în conformitate cu restricțiile verticale precizate pe hartă.

În cazul în care ruta STAR nu a fost alocată, setați transponderul 7600, procedați conform FPL și rutei STAR incluse în FPL, executați procedura de apropiere instrumentală ILS sau NDB și aterizați. Coborârea trebuie executată în conformitate cu restricțiile verticale precizate pe hartă, după 2 minute de la setarea 7600.

**AERODROME CHART - ICAO**

45° 48' 35" N  
021° 20' 16" E  
ELEV 348FT

TIMISOARA TOWER 120.105  
TIMISOARA TOWER ALTN 129.450  
TIMISOARA GROUND 121.600

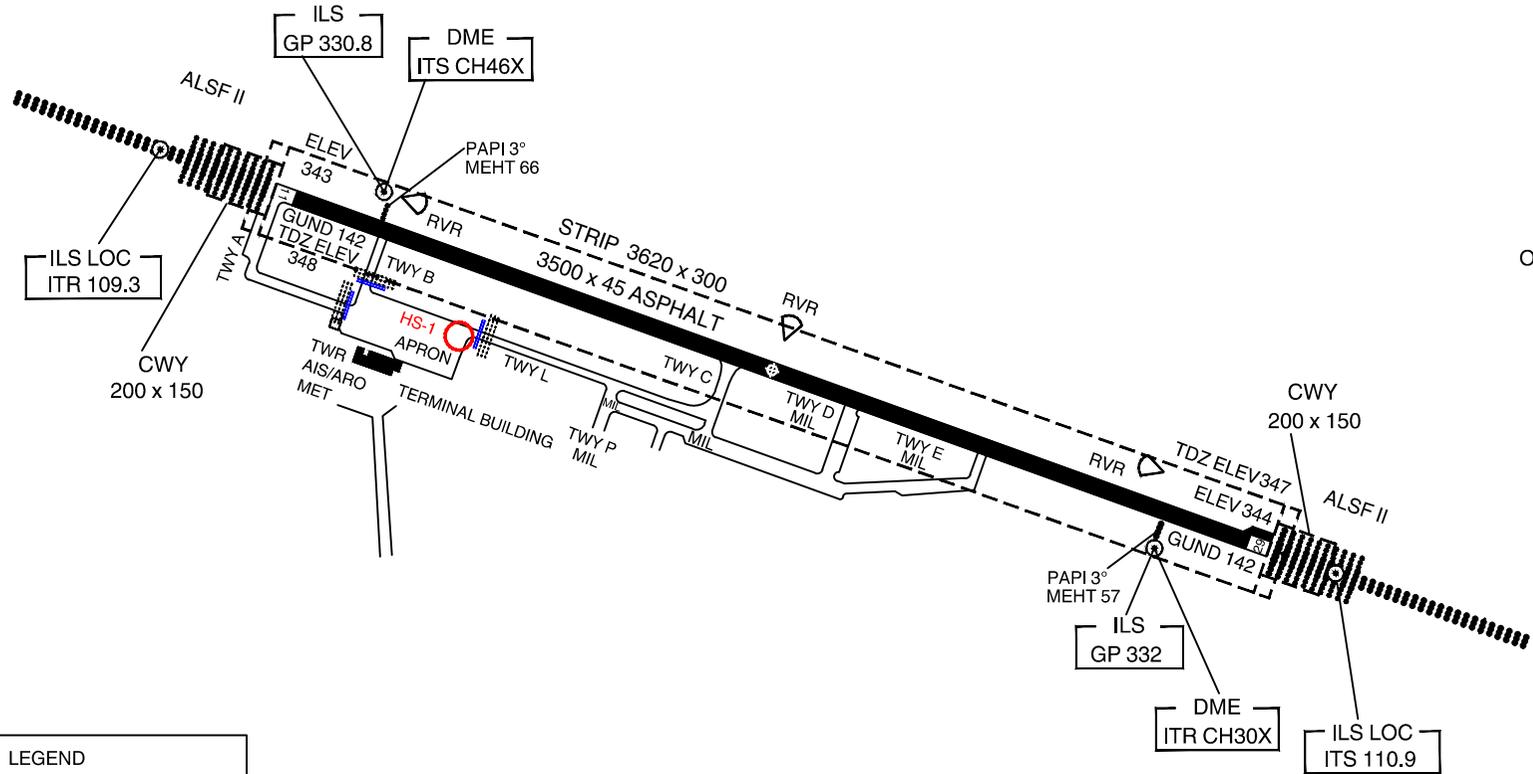
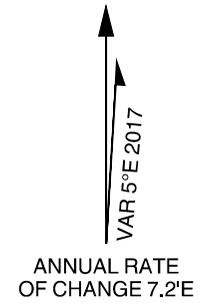
**TIMISOARA /**  
Traian Vuia (LRTT)

Changes: TWY D, E and P assigned MIL, Apron Boundary.

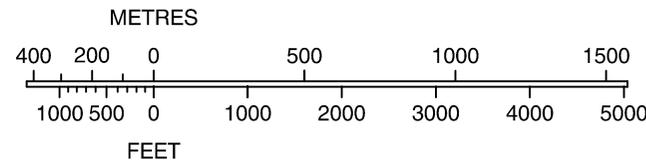
ELEVATIONS IN FEET  
DIMENSIONS IN METRES  
BEARINGS ARE MAGNETIC

TWY	WIDTH	SURFACE	BEARING STRENGTH
A	23M	ASPHALT	71/R/D/W/T
B	23M	ASPHALT	43/R/D/W/T
C	33M	CONCRETE	54/R/D/W/T
L	23M	CONCRETE	54/R/D/W/T

RWY	DIRECTION	THR	BEARING STRENGTH
11	105°	45°48'55"N 021°19'00"E	PCN 44/R/D/W/T Asphalt
29	285°	45°48'16"N 021°21'33"E	
HELIPORT		-	

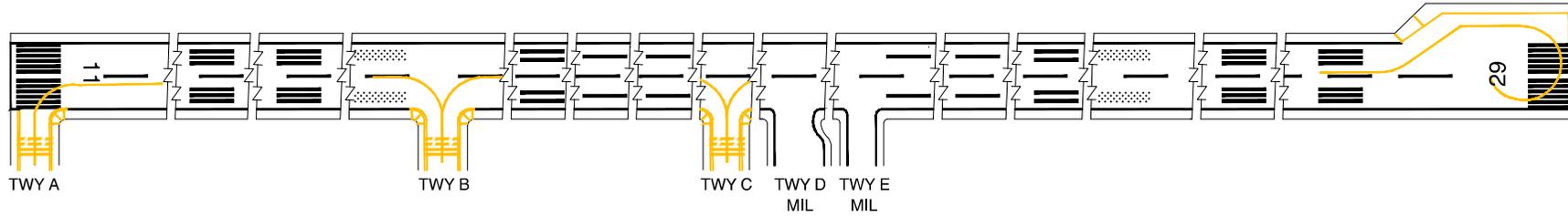


LEGEND	
RUNWAY VISUAL RANGE (RVR) OBSERVATION SITE	
AERODROME REFERENCE POINT	
BUILDING	
HOT SPOT WITH IDENT	HS-1
ATC SERVICE BOUNDARY	
APRON BOUNDARY	

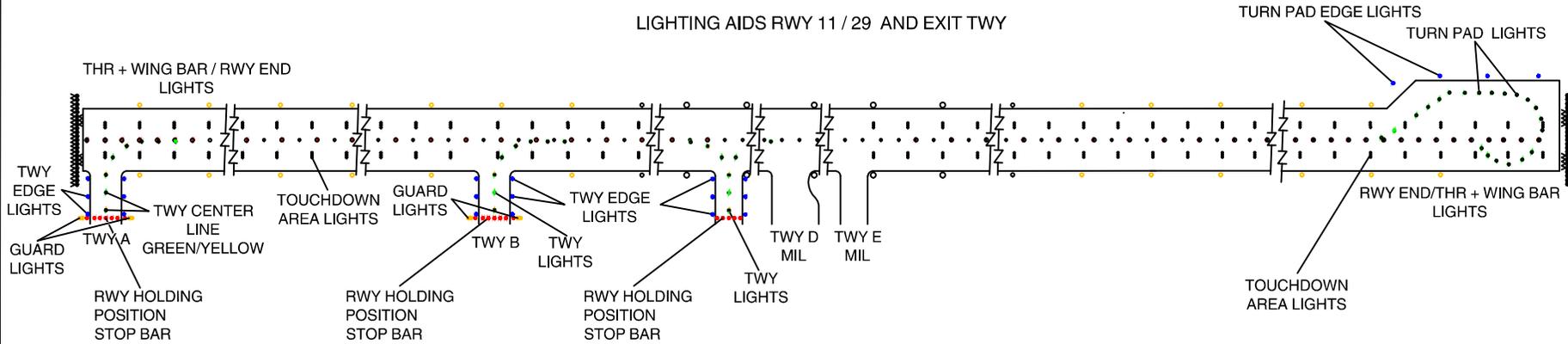


**HOT SPOT**  
HS-1 ACFT exiting TWY L and entering APRON must turn LEFT

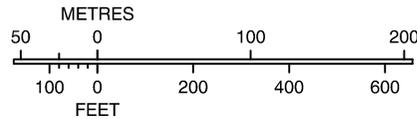
MARKING AIDS RWY 11 / 29 AND EXIT TWY



LIGHTING AIDS RWY 11 / 29 AND EXIT TWY



SCALE 1 : 5 000



LEGEND	
AIMING POINT	
RUNWAY-HOLDING POSITION	

Changes: TWY D, E and P assigned MIL, RWY Guard Lights.

**LRIS AD 2.1 AERODROME LOCATION INDICATOR AND NAME**  
**LRIS - IAȘI / Iași - Sud****LRIS AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

1	ARP coordinates and site at AD	470929 N 0273815E RWY center.
2	Direction and distance from city	3.5 km E from Iași
3	Elevation/Reference temperature/mean low temperature	210 FT / 29.5°C / -12.6°C
4	Geoid undulation at AD ELEV PSN	105 FT
5	MAG VAR/ Annual rate of change	7°E (2023) / 7.2°E
6	AD Operator, address, telephone, telefax, telex, AFS	Aeroclubul Teritorial "Alexandru Matei" Iași Str. Aviației, Nr 2, Iași Tel. : 0726.678.541 e-mail: iasi@aeroclubulromaniei.ro
7	Types of traffic permitted (IFR/VFR)	VFR
8	Remarks	NIL

**LRIS AD 2.3 OPERATIONAL HOURS**

1	AD Operator	W: MON-FRI 0715-1300 S: WED-SUN 0615-1500
2	Customs and immigration	NIL
3	Health and sanitation	NIL
4	AIS Briefing Office	NIL
5	ATS Reporting Office (ARO)	NIL
6	MET Briefing Office	NIL
7	ATS	NIL
8	Fuelling	NIL
9	Handling	NIL
10	Security	NIL
11	De-icing	NIL
12	Remarks	NIL

**LRIS AD 2.4 HANDLING SERVICES AND FACILITIES**

1	Cargo-handling facilities	NIL
2	Fuel/Oil types	NIL
3	Fuelling facilities/capacity	NIL
4	De-icing facilities	NIL
5	Hangar space for visiting aircraft	Hangar 1: 838.47 M <sup>2</sup> , maximum height 3.85 M Hangar 2: 975.32 M <sup>2</sup> , maximum height 5 M
6	Repair facilities for visiting aircraft	Glider, AN2, Savannah
7	Remarks	OPC (Operational Control) on 128.305

**LRIS AD 2.5 PASSENGER FACILITIES**

1	Hotels	Hotels, hostels and motels in town
2	Restaurants	Restaurants in town
3	Transportation	"Rent-a-car" service on request from town, Taxi
4	Medical facilities	Hospital in town
5	Bank and Post Office	In town
6	Tourist Office	Tourist Info/Center in town
7	Remarks	NIL

**LRIS AD 2.6 RESCUE AND FIRE FIGHTING SERVICES**

1	AD category for fire fighting	CAT 2
2	Rescue equipment	NIL
3	Capability for removal of disabled aircraft	One truck
4	Remarks	NIL

**LRIS AD 2.7 RUNWAY SURFACE CONDITION ASSESSMENT AND REPORTING, AND SNOW PLAN**

1	Types of clearing equipment	NIL
2	Clearance priorities	NIL
3	Use of material for movement area surface treatment	NIL
4	Specially prepared winter runways	NIL
5	Remarks	NIL



**LRIS AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA**

1	Apron designation, surface and strength	Surface: Strength:	APRON Grass+concrete 5700kg
2	Taxiway designation, width, surface and strength	Width: Surface: Strength:	TWY A 29 M Grass 5700kg
3	ACL location and elevation	NIL	
4	VOR checkpoints	NIL	
5	INS checkpoints	NIL	
6	Remarks	NIL	

**LRIS AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS**

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system at aircraft stands	Signals on holding points Taxi guides on TWY and RWY
2	RWY and TWY markings and LGT	RWY: - markings: (white) designation, THR, edge marked white; - lights: NIL. TWY: - markings: yellow, white-yellow strips cones; - lights: NIL.
3	Stop bars and runway guard lights	NIL
4	Other RWY protection measure	NIL
5	Remarks	NIL

**LRIS AD 2.10 AERODROME OBSTACLES**

In Area 2					
OBST ID/ Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
NIL	NIL	NIL	NIL	NIL	NIL

In Area 3					
OBST ID/ Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
NIL	NIL	NIL	NIL	NIL	NIL

**LRIS AD 2.11 METEOROLOGICAL INFORMATION PROVIDED**

1	Associated MET Office	NIL
2	Hours of service MET Office outside hours	NIL
3	Office responsible for TAF preparation Periods of validity Interval of issuance	NIL
4	Type of landing forecast Interval of issuance	NIL
5	Briefing / consultation provided	NIL
6	Flight documentation Language(s) used	NIL
7	Charts and other information available for briefing or consultation	NIL
8	Supplementary equipment available for providing information	NIL
9	ATS units provided with information	NIL
10	Additional information (limitation of service, etc.)	NIL



**LRIS AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS**

Designations RWY NR	TRUE BRG	Dimensions of RWY (M)	Strength (PCN) and surface of RWY and SWY	THR coord RWY end coord THR geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY	Slope of RWY-SWY	
1	2	3	4	5	6	7	
13	137.41°	650 x 40	5700 Kg Grass	470936.59N 0273804.65E 470921.10N 0273825.53E GUND 105 FT	THR 207 FT	0.08%	
31	317.41°	650 x 40	5700 Kg Grass	470921.10N 0273825.53E 470936.59N 0273804.65E GUND 105 FT	THR 210 FT	-0.08%	
SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	RESA dimensions (M)	Location and description of ARST system		OFZ	Remarks
8	9	10	11	12	13	14	
NIL	NIL	710 x 60	30	NIL	NIL	NIL	
NIL	NIL	710 x 60	30	NIL	NIL	NIL	

**LRIS AD 2.13 DECLARED DISTANCES**

RWY designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
13	650	650	650	650	NIL
31	650	650	650	650	NIL

**LRIS AD 2.14 APPROACH AND RWY LIGHTING**

RWY Designator	APCH LGT type LEN INTST	THR LGT colour WBAR	VASIS (MEHT) PAPI	TDZ, LGT LEN	RWY Centre Line LGT Length, spacing, colour, INTST	RWY edge LGT LEN, spacing, colour, INTST	RWY End LGT colour WBAR	SWY LGT LEN (M) colour	Remarks
1	2	3	4	5	6	7	8	9	10
NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

**LRIS AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY**

1	ABN / IBN location, characteristics and hours of operation	NIL
2	LDI location and LGT Anemometer location and LGT	NIL
3	TWY edge and centre line lighting	NIL
4	Secondary power supply/switch-over time	NIL
5	Remarks	NIL

**LRIS AD 2.16 HELICOPTER LANDING AREA**

1	Coordinates TLOF or THR of FATO	NIL
2	TLOF and/or FATO elevation M/FT	NIL
3	TLOF and FATO area dimensions, surface, strength, marking	NIL
4	True and MAG BRG of FATO	NIL
5	Declared distance available	NIL
6	APP and FATO lighting	NIL
7	Remarks	NIL



**LRIS AD 2.17 ATS AIRSPACE**

1	<i>Designation and lateral limits</i>	NIL
2	<i>Vertical limits</i>	NIL
3	<i>Airspace classification</i>	NIL
4	<i>ATS unit call sign Language(s)</i>	NIL
5	<i>Transition altitude</i>	NIL
6	<i>Hours of applicability</i>	NIL
7	<i>Remarks</i>	Aerodrome located within IAȘI CTR (see LRIA AD 2.17 ATS AIRSPACE)

**LRIS AD 2.18 ATS COMMUNICATION FACILITIES**

<i>Service designation</i>	<i>Call sign</i>	<i>Channel/ Frequency</i>	<i>SATVOICE</i>	<i>Logon address</i>	<i>Hours of operation</i>	<i>Remarks</i>
1	2	3	4	5	6	7
NIL	NIL	NIL	NIL	NIL	NIL	NIL

**LRIS AD 2.19 RADIO NAVIGATION AND LANDING AIDS**

<i>Type of aid, MAG VAR Type of supported OPS ILS classification GBAS classification (For VOR/ILS/MLS give declination)</i>	<i>ID</i>	<i>Frequency / Channel</i>	<i>Hours of operation</i>	<i>Position of transmitting antenna coordinates</i>	<i>Elevation of DME Service transmitting antenna / ELEV of GBAS reference point</i>	<i>Service volume radius from the GBAS reference point</i>	<i>Remarks</i>
1	2	3	4	5	6	7	8
NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

**LRIS AD 2.20 LOCAL AERODROME REGULATIONS**

Iasi-Sud aerodrome is located in CTR Iasi, class C airspace, with horizontal and vertical limits described in AIP Romania, LRIA AD 2.17 ATS AIRSPACE.

For entry permission in the controlled airspace of CTR Iasi, aircraft operating from Iasi-Sud airfield shall submit a FPL and contact the Iasi Tower traffic unit from TWR Iasi (for communication channel see LRIA AD 2.18 ATS COMMUNICATION FACILITIES).

All flights are subject to ATC clearance except those evolving in restricted or segregated airspace areas.

It is forbidden to intersect the take-off/landing runway directions of Iasi International Airport (LRIA), without the prior authorization of the traffic unit from TWR IASI.

For flights in CTR IASI it is mandatory to equip aircraft with SSR identification system and VHF airground communications in 8.33 kHz spacing.

No more than 3 airplanes in circuits when gliders are operating.

Aircraft parking:

Parking positions on APRON 4,5: nose-in parking position, for code letter „A” (maximum 15 m wingspan).

Aerodromul Iași-Sud este situat în CTR Iași, spațiu aerian clasa C, cu limite orizontale și verticale descrise în AIP Romania, LRIA AD 2.17 ATS AIRSPACE.

Pentru permisiunea de intrare în spațiul aerian controlat al CTR Iași, aeronavele care operează de pe aerodromul Iași-Sud vor depune FPL și vor contacta unitatea de trafic Iași Tower de la TWR Iași (pentru canalul de comunicații vezi LRIA AD 2.18 ATS COMMUNICATION FACILITIES).

Toate zborurile sunt subiect al autorizării ATC cu excepția celor care evoluează în zone de spațiu aerian restricționate sau segregate.

Este interzisă intersectarea direcțiilor de decolare/aterizare ale pistei Aeroportului Internațional IAȘI (LRIA), fără autorizarea prealabilă a unității de trafic de la TWR IAȘI.

Pentru zborurile în CTR IAȘI este obligatorie echiparea aeronavelor cu sistem de identificare SSR și comunicații aer-sol VHF în ecart 8.33 kHz.

Nu mai mult de 3 avioane în tur de pistă când operează planorul..

Parcarea aeronavelor:

Pozițiile de parcare de la APRON 4,5: poziție de parcare nose-in pentru aeronave cu litera de cod „A” (maximum 15 m anvergura aripilor).

**LRIS AD 2.21 NOISE ABATEMENT PROCEDURES**

-NIL-

**LRIS AD 2.22 FLIGHT PROCEDURES**

-NIL-

**LRIS AD 2.23 ADDITIONAL INFORMATION**

-NIL-



**LRIS AD 2.24 CHARTS RELATED TO THE AERODROME**

Aerodrome Chart - ICAO.....	AD 2.33-20
Visual Operations Chart.....	AD 2.33-40

**LRIS AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION**

Not applicable

AERODROME CHART - ICAO

47°09'29" N  
027°38'15" E  
ELEV 210 FT

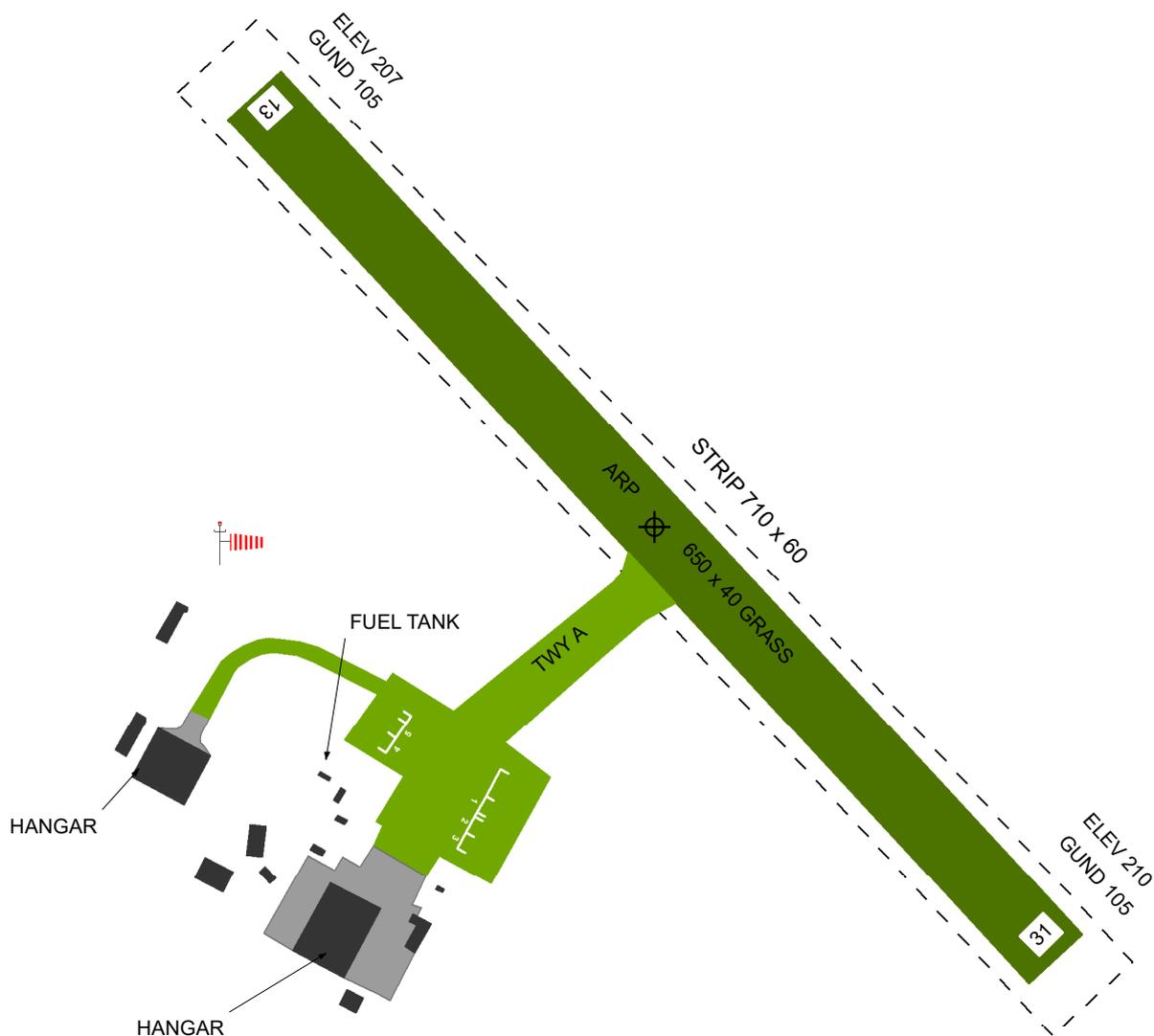
OPC 128.305

IAȘI/ Iași - Sud (LRIS)

RWY	DIRECTION	THR	BEARING STRENGHT
13	130°	47°09'37"N 027°38'05"E	5700 KG GRASS
31	310°	47°09'21"N 027°38'26"E	
HELIPORT			

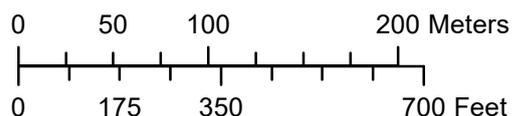
↑  
VAR 7° E 2023  
ANNUAL RATE  
OF CHANGE 7.2°E

Changes: New chart.



LEGEND	
⊕	ARP
↑	WIND DIRECTION INDICATOR (WDI)
■ (Green)	RWY (GRASS)
■ (Light Green)	TWY (GRASS)
■ (Grey)	BUILDINGS
■ (Dark Grey)	PLATFORM (CONCRETE)

1:4000



VISUAL OPERATIONS CHART

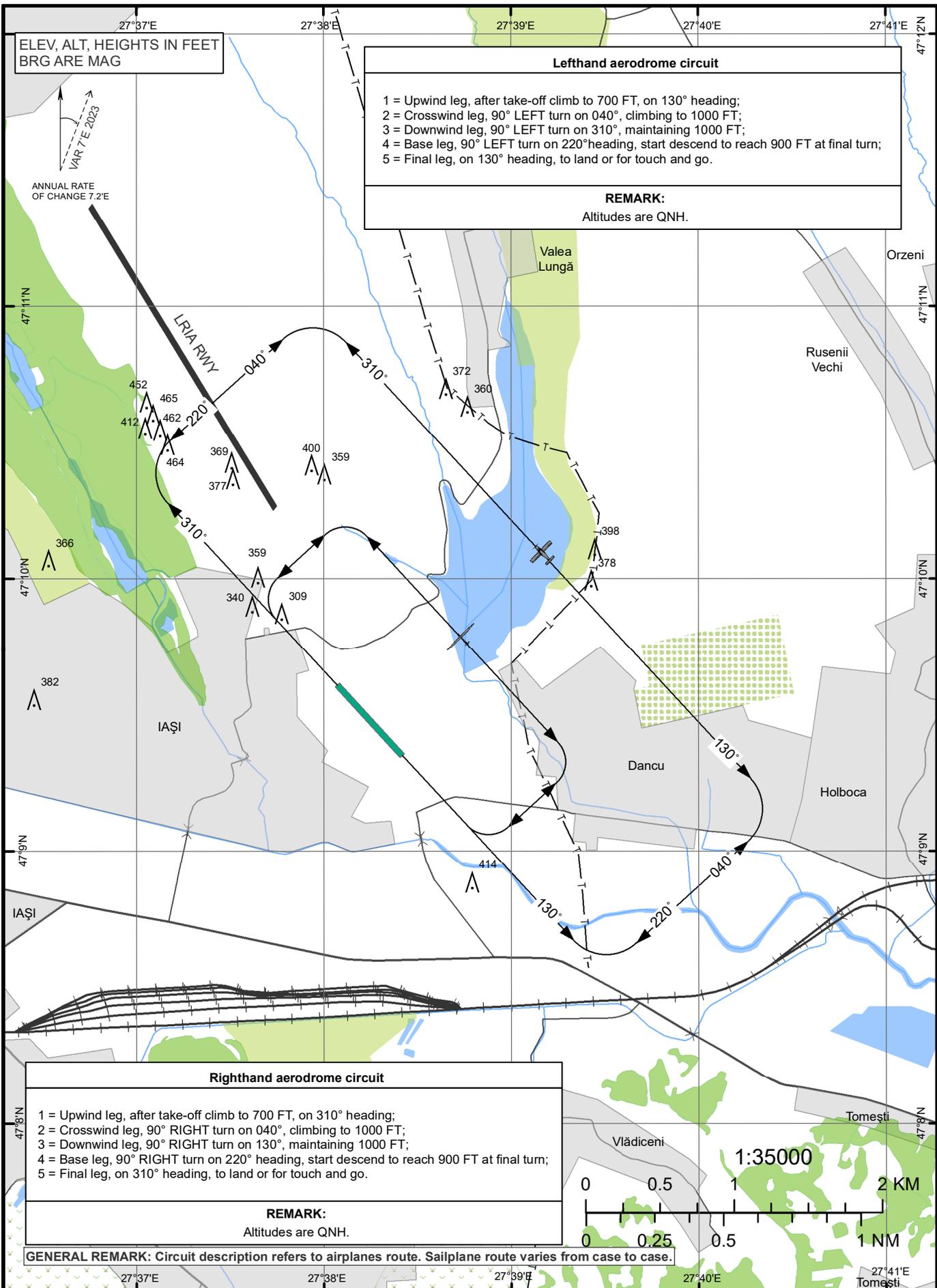
AD ELEV 210 FT

IAȘI/ Iași - Sud (LRIS)

OPC 128.305

RWY 13/31

Aerodrome Traffic Circuit



**LRMA AD 3.1 HELIPORT LOCATION INDICATOR AND NAME**  
**LRMA - GHIMBAV / MIR AERO-Braşov**

**LRMA AD 3.2 HELIPORT GEOGRAPHICAL AND ADMINISTRATIVE DATA**

1	<i>Heliport reference point coordinates and site at heliport</i>	454114N 0253137E, the centre TLOF
2	<i>Direction and distance from city</i>	NE from Ghimbav. Distance = 3.12 KM
3	<i>Elevation/Reference temperature/Mean low temperature</i>	1766 FT / 7.8° C / -11.3° C
4	<i>Geoid undulation at ELEV PSN</i>	126 FT
5	<i>MAG VAR/ Annual rate of change</i>	7° E (2024) / 7' E
6	<i>Heliport Administration, address, telephone, telefax, e-mail, AFS, website</i>	City Ghimbav, 507075, Ghimbav, Str. Hermann Oberth nr. 25, Judeţ Braşov Mobile phone: +40 757 048 080 e-mail: floriangrigorescu@yahoo.com
7	<i>Types of traffic permitted (IFR/VFR)</i>	VFR
8	<i>Remarks</i>	Not open for public.

**LRMA AD 3.3 OPERATIONAL HOURS**

1	<i>Heliport Administration</i>	0800-1700
2	<i>Customs and immigration</i>	NIL
3	<i>Health and sanitation</i>	NIL
4	<i>AIS Briefing Office</i>	NIL
5	<i>ATS Reporting Office (ARO)</i>	NIL
6	<i>MET Briefing Office</i>	NIL
7	<i>ATS</i>	NIL
8	<i>Fuelling</i>	NIL
9	<i>Handling</i>	As AD Administration
10	<i>Security</i>	H24
11	<i>De-icing</i>	NIL
12	<i>Remarks</i>	Any other operator has the possibility to use the heliport only with the consent of the holder of this heliport throughout the period the heliport is available for take-off and landing operations.

**LRMA AD 3.4 HANDLING SERVICES AND FACILITIES**

1	<i>Cargo-handling facilities</i>	NIL
2	<i>Fuel/Oil types</i>	NIL
3	<i>Fuelling facilities/capacity</i>	NIL
4	<i>De-icing facilities</i>	NIL
5	<i>Hangar space for visiting aircraft</i>	Yes
6	<i>Repair facilities for visiting aircraft</i>	Yes
7	<i>Remarks</i>	Part 145

**LRMA AD 3.5 PASSENGER FACILITIES**

1	<i>Hotels</i>	NIL
2	<i>Restaurants</i>	NIL
3	<i>Transportation</i>	NIL
4	<i>Medical facilities</i>	NIL
5	<i>Bank and Post Office</i>	NIL
6	<i>Tourist Office</i>	NIL
7	<i>Remarks</i>	NIL

**LRMA AD 3.6 RESCUE AND FIRE FIGHTING SERVICES**

1	Heliport category for fire fighting	Cat H1
2	Rescue equipment	NIL
3	Capability for removal of disabled helicopter	NIL
4	Remarks	NIL

**LRMA AD 3.7 SEASONAL AVAILABILITY - CLEARING**

1	Types of clearing equipment	Tractor with blade
2	Clearance priorities	1. TLOF 2. TWY 3. Apron
3	Remarks	NIL

**LRMA AD 3.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA**

1	Apron/helicopter stands surface and strength	Dimensions: 46 x 95 M Surface: Asphalt Strength: 9 tones
2	Ground taxiway width, surface and designation	Width: 8 M Designation: NIL
3	Air taxiway width and designation	NIL
4	ACL location and elevation	NIL
5	VOR checkpoints	NIL
6	INS checkpoints	NIL
7	Remarks	NIL

**LRMA AD 3.9 MARKINGS AND MARKERS**

1	Final approach and take-off markings	White FATO and TLOF edge
2	TWY markings, air TWY and air transit route markers	Yellow TWY edge / Yellow and red Hold position
3	Remarks	NIL

**LRMA AD 3.10 HELIPORT OBSTACLES**

In Area 2					
OBST ID/ Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
NIL	NIL	NIL	NIL	NIL	NIL

In Area 3					
OBST ID/ Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
NIL	NIL	NIL	NIL	NIL	NIL

**LRMA AD 3.11 METEOROLOGICAL INFORMATION PROVIDED**

1	Associated MET Office	NIL
2	Hours of service MET Office outside hours	NIL
3	Office responsible for TAF preparation Periods of validity Interval of issuance	NIL
4	Trend forecast Interval of issuance	NIL
5	Briefing / consultation provided	NIL
6	Flight documentation Language(s) used	NIL
7	Charts and other information available for briefing or consultation	NIL
8	Supplementary equipment available for providing information	NIL
9	ATS units provided with information	NIL
10	Additional information (limitation of service, etc.)	NIL

**LRMA AD 3.12 HELIPORT DATA**

1	<i>Heliport type</i>	Surface-level
2	<i>TLOF dimensions</i>	18 x 18 M
3	<i>FATO GEO bearing</i>	042.00° / 222.00°
4	<i>FATO dimensions and SFC type</i>	30 x 30 M / grass
5	<i>TLOF, SFC and BRG strength</i>	Asphalt / 9 tones
6	<i>Coordinates of geometric centre TLOF or THR of FATO and geoid undulation</i>	454114.36N 0253137.46E, the centre TLOF
7	<i>TLOF/FATO, elevation and slope</i>	1766 FT / 1.9%
8	<i>Safety area dimensions</i>	40 x 40 M
9	<i>HEL, CWY dimensions</i>	NIL
10	<i>Obstacle-free sector</i>	NIL
11	<i>Remarks</i>	NIL

**LRMA AD 3.13 DECLARED DISTANCES**

<i>RWY designator</i>	<i>TODAH (M)</i>	<i>RTODAH (M)</i>	<i>LDAH (M)</i>	<i>Remarks</i>
FATO 04	NIL	NIL	NIL	NIL
FATO 22	NIL	NIL	NIL	NIL

**LRMA AD 3.14 APPROACH AND FATO LIGHTING**

1	<i>APP LGT system type, LEN, INTST</i>	NIL
2	<i>Type of visual approach slope indicator system</i>	NIL
3	<i>FATO area LGT characteristics and location</i>	NIL
4	<i>Aiming point LGT characteristics and location</i>	NIL
5	<i>TLOF LGT system characteristics and location</i>	NIL
6	<i>Remarks</i>	NIL

**LRMA AD 3.15 OTHER LIGHTING, SECONDARY POWER SUPPLY**

1	<i>Heliport BCN location and characteristics Hours of operation</i>	NIL
2	<i>WDI location and LGT</i>	NIL
3	<i>TWY edge and centre line lighting</i>	NIL
4	<i>Secondary power supply/switch-over time</i>	NIL
5	<i>Remarks</i>	NIL

**LRMA AD 3.16 ATS AIRSPACE**

1	<i>Designation and lateral limits</i>	NIL
2	<i>Vertical limits</i>	NIL
3	<i>Airspace classification</i>	NIL
4	<i>ATS unit call sign Language(s)</i>	NIL
5	<i>Transition altitude</i>	NIL
6	<i>Hours of applicability</i>	NIL
7	<i>Remarks</i>	Heliport located within BRAȘOV CTR (see LRBV AD 2.17 ATS AIRSPACE).

### LRMA AD 3.17 ATS COMMUNICATION FACILITIES

- NIL -

### LRMA AD 3.18 RADIO NAVIGATION AND LANDING AIDS

- NIL -

### LRMA AD 3.19 LOCAL HELIPORT REGULATIONS

GHIMBAV/MIR AERO-Braşov heliport is located in CTR Braşov, class C airspace, with horizontal and vertical limits described in AIP Romania, LRBV AD 2.17 ATS AIRSPACE.

Heliportul GHIMBAV/MIR AERO-Braşov este situat în CTR Braşov, spaţiu aerian clasa C, cu limite orizontale și verticale descrise în AIP Romania, LRBV AD 2.17 ATS AIRSPACE.

For entry permission in the controlled airspace of CTR Braşov, aircraft operating from GHIMBAV/MIR AERO-Braşov heliport shall submit a FPL and contact the Braşov Tower traffic unit from TWR Braşov (for communication channel see LRBV AD 2.18 ATS COMMUNICATION FACILITIES).

Pentru permisiunea de intrare în spaţiul aerian controlat al CTR Braşov, aeronavele care operează de pe heliportul GHIMBAV/MIR AERO-Braşov vor depune FPL și vor contacta unitatea de trafic Brasov Tower de la TWR Braşov (pentru canalul de comunicații vezi LRBV AD 2.18 ATS COMMUNICATION FACILITIES).

All flights are subject to ATC clearance except those evolving in restricted or segregated airspace areas. It is forbidden to intersect the take-off/landing runway directions of aerodrome BRAŞOV/Braşov-Ghimnav (LRBV), without the prior authorization of the traffic unit from TWR Braşov.

Toate zborurile sunt subiect al autorizării ATC cu excepția celor care evoluează în zone de spațiu aerian restricționate sau segregate. Este interzisă intersectarea direcțiilor de decolare/aterizare ale pistei aerodromului BRAŞOV/Braşov-Ghimnav (LRBV), fără autorizarea prealabilă a unității de trafic de la TWR Braşov.

For flights in CTR Braşov it is mandatory to equip aircraft with SSR identification system and VHF air-ground communications in 8.33 kHz spacing.

Pentru zborurile în CTR Braşov este obligatorie echiparea aeronavelor cu sistem de identificare SSR și comunicații aer-sol VHF în ecart 8.33 kHz.

Heliport is open for operation of helicopters operating in performance Class 1, 2 and 3.

Heliportul este deschis pentru operarea elicopterelor care operează în clasa de performanță 1, 2 și 3.

Helicopter landings in emergency situations are allowed.

Aterizările elicopterelor aflate în situații de urgență sunt permise.

### LRMA AD 3.20 NOISE ABATEMENT PROCEDURES

- NIL -

### LRMA AD 3.21 FLIGHT PROCEDURES

- NIL -

### LRMA AD 3.22 ADDITIONAL INFORMATION

- NIL -

### LRMA AD 3.23 CHARTS RELATED TO THE AERODROME

Heliport Chart - ICAO..... AD 3.6-20

HELIPORT CHART - ICAO 45° 41' 14" N  
025° 31' 37" E ELEV 1766FT

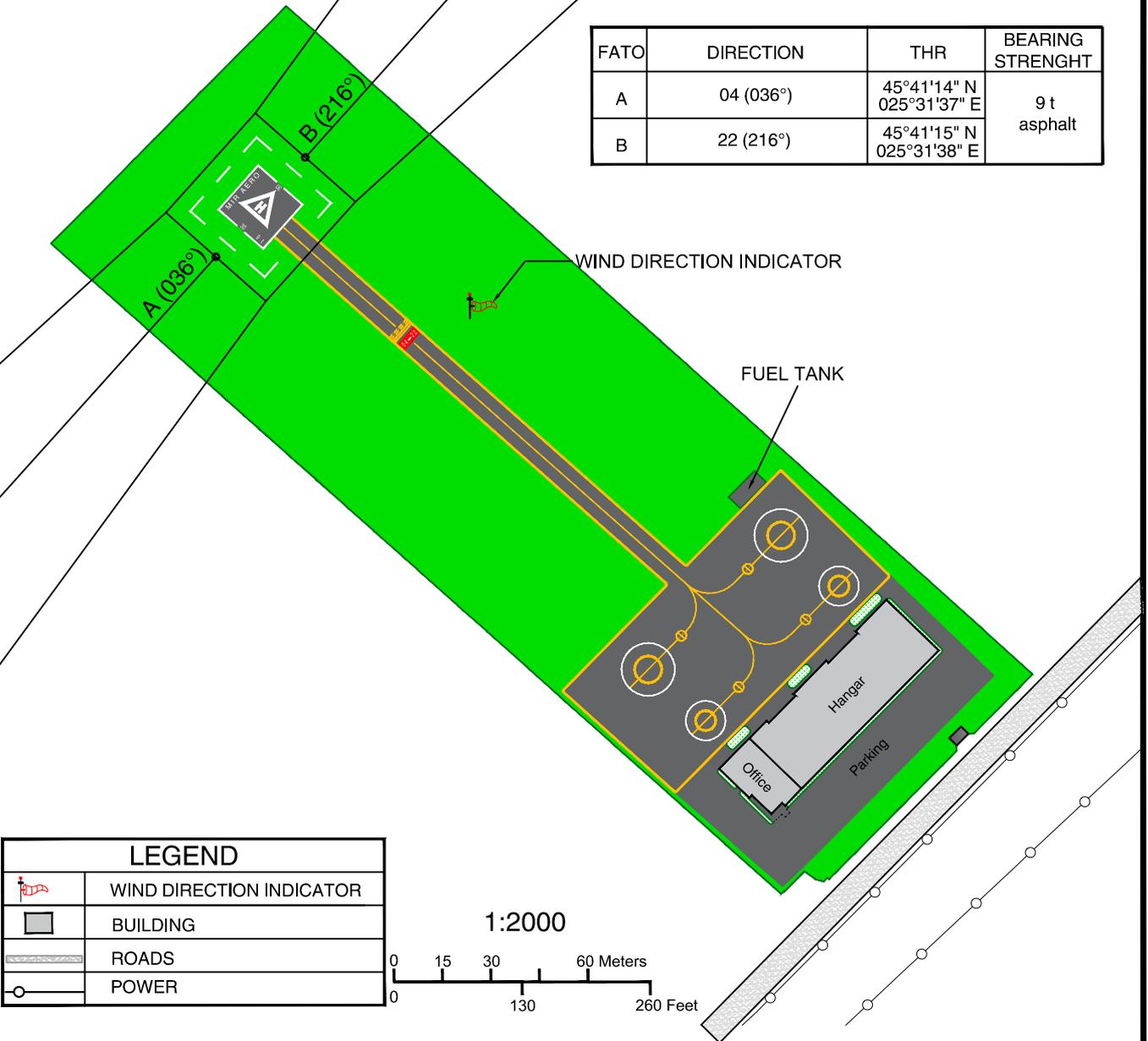
GHIMBAV /  
MIR AERO - Braşov (LRMA)  
SURFACE - LEVEL HELIPORT

ELEVATIONS IN FEET  
DIMENSIONS IN METRES  
BEARINGS ARE MAGNETIC

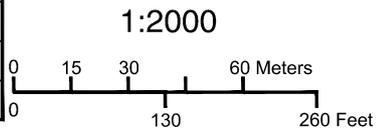
↑  
VAR 7°E 2024  
Annual rate of change 7'/year

FATO	DIRECTION	THR	BEARING STRENGTH
A	04 (036°)	45°41'14" N 025°31'37" E	9 t asphalt
B	22 (216°)	45°41'15" N 025°31'38" E	

Changes: GEO Bearing / Markings.



LEGEND	
	WIND DIRECTION INDICATOR
	BUILDING
	ROADS
	POWER



	TLOF	FATO	SAFETY AREA	TWY	APRON
AREA DIMENSIONS	18X18	30X30	40X40	8	46X95
LIGHTS	NIL	NIL	NIL	NIL	NIL
SLOPE	1.9%	1.9%	NIL	NIL	NIL
SURFACE	ASPHALT	GRASS	GRASS	ASPHALT	ASPHALT