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AIRAC
AIP AMDT

09
04 SEP 2025

AIRAC AIP AMENDMENT 09/25

I.

Content

- ENR - En-route chart updated
- AD - LRBC - change of magnetic variation
 - change of runway directions
 - change of THR coordinates/THR elevation/TDZ elevation
 - new instrument flight procedures: SID, ILS, RNP, NDB
- LROD - update of AD regulations
- LRMS - new aerodrome
- LRTM – LVP updated

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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*
TÂRGU MUREȘ / 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 / Tăuții 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 / Tăuții Măgherăuș
LRMS*	TÂRGU MUREȘ / 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 33 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 33 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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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



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 / Mureseni - LRMS
463200N 0243146E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL 1	0154	0231	1820	1857
5	0157	0233	1819	1855
9	0200	0236	1817	1853
13	0204	0240	1814	1850
17	0209	0244	1811	1847
21	0213	0248	1808	1842
25	0218	0253	1803	1838
29	0224	0257	1758	1832

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV 2	0433	0503	1507	1537
6	0439	0509	1501	1531
10	0444	0515	1456	1526
14	0450	0521	1451	1522
18	0455	0526	1447	1518
22	0500	0532	1443	1515
26	0505	0537	1441	1513
30	0510	0542	1438	1511

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR 2	0429	0457	1610	1638
6	0421	0450	1615	1644
10	0414	0442	1621	1650
14	0406	0434	1627	1655
18	0358	0427	1632	1701
22	0350	0419	1638	1706
26	0342	0411	1643	1712
30	0334	0403	1649	1717

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG 2	0229	0302	1753	1826
6	0235	0307	1747	1820
10	0240	0312	1741	1813
14	0246	0317	1735	1806
18	0251	0322	1728	1759
22	0257	0327	1721	1752
26	0302	0333	1714	1744
30	0308	0338	1706	1736

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC 4	0514	0547	1437	1509
8	0518	0551	1436	1509
12	0521	0554	1436	1509
16	0524	0558	1437	1510
20	0527	0600	1438	1511
24	0529	0602	1440	1513
28	0530	0603	1443	1516

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR 3	0326	0355	1654	1723
7	0318	0348	1659	1729
11	0310	0340	1705	1735
15	0303	0333	1710	1740
19	0255	0325	1716	1746
23	0247	0318	1721	1752
27	0240	0312	1726	1758

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP 3	0313	0343	1659	1728
7	0319	0348	1651	1720
11	0324	0353	1643	1712
15	0329	0358	1635	1704
19	0335	0403	1627	1656
23	0340	0408	1619	1648
27	0345	0414	1611	1640

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN 1	0531	0603	1446	1519
5	0530	0603	1450	1523
9	0530	0602	1455	1527
13	0528	0600	1500	1532
17	0526	0558	1505	1537
21	0523	0555	1510	1542
25	0520	0551	1516	1547
29	0516	0547	1522	1553

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY 1	0233	0305	1732	1804
5	0227	0259	1737	1810
9	0220	0253	1742	1815
13	0215	0248	1747	1821
17	0209	0243	1752	1826
21	0204	0239	1757	1832
25	0200	0235	1801	1837
29	0156	0232	1805	1841

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT 1	0350	0419	1603	1632
5	0356	0424	1555	1624
9	0401	0429	1548	1616
13	0406	0435	1540	1609
17	0412	0440	1533	1602
21	0417	0446	1526	1555
25	0422	0452	1519	1549
29	0428	0457	1513	1542

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB 2	0512	0542	1528	1559
6	0507	0537	1534	1604
10	0501	0531	1540	1610
14	0455	0525	1546	1616
18	0449	0518	1552	1621
22	0443	0512	1558	1627
26	0436	0505	1604	1633

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



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

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
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	1906
5	0213	0249	1829	1904
9	0217	0252	1827	1902
13	0220	0256	1824	1859
17	0225	0259	1821	1856
21	0229	0303	1818	1852
25	0234	0308	1814	1847
29	0239	0312	1809	1842

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV 2	0445	0514	1521	1550
6	0450	0520	1515	1545
10	0456	0526	1510	1541
14	0501	0531	1506	1536
18	0506	0537	1502	1533
22	0511	0542	1458	1530
26	0516	0547	1456	1527
30	0520	0552	1454	1525

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR 2	0441	0509	1623	1651
6	0434	0502	1629	1657
10	0426	0455	1634	1702
14	0419	0447	1640	1708
18	0411	0439	1645	1713
22	0404	0432	1650	1719
26	0356	0424	1656	1724
30	0348	0416	1701	1729

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
AUG 2	0245	0317	1804	1836
6	0250	0322	1758	1830
10	0255	0327	1752	1824
14	0301	0332	1746	1817
18	0306	0337	1739	1810
22	0312	0342	1732	1802
26	0317	0347	1725	1755
30	0322	0352	1718	1747

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
DEC 4	0525	0557	1452	1524
8	0529	0601	1451	1524
12	0532	0604	1451	1524
16	0535	0608	1452	1525
20	0537	0610	1454	1526
24	0539	0612	1456	1528
28	0541	0613	1458	1531

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
APR 3	0340	0409	1706	1735
7	0332	0401	1711	1740
11	0325	0354	1717	1746
15	0317	0347	1722	1751
19	0309	0339	1727	1757
23	0302	0333	1732	1803
27	0255	0326	1738	1808

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
SEP 3	0327	0356	1710	1739
7	0333	0401	1703	1732
11	0338	0406	1655	1724
15	0343	0411	1647	1716
19	0348	0416	1639	1708
23	0353	0421	1632	1700
27	0358	0426	1624	1652

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JAN 1	0541	0614	1502	1534
5	0541	0613	1506	1538
9	0540	0612	1510	1542
13	0539	0611	1515	1547
17	0537	0608	1520	1551
21	0534	0605	1525	1557
25	0531	0602	1531	1602
29	0527	0558	1537	1607

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAY 1	0248	0320	1743	1814
5	0242	0314	1748	1820
9	0236	0308	1753	1825
13	0230	0303	1758	1831
17	0225	0258	1803	1836
21	0220	0254	1807	1841
25	0216	0251	1811	1846
29	0213	0248	1815	1851

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
OCT 1	0403	0431	1616	1644
5	0408	0436	1609	1637
9	0413	0442	1601	1629
13	0419	0447	1554	1622
17	0424	0452	1547	1615
21	0429	0458	1540	1608
25	0434	0503	1533	1602
29	0440	0509	1527	1556

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
FEB 2	0523	0553	1543	1613
6	0518	0548	1549	1618
10	0513	0542	1554	1624
14	0507	0536	1600	1629
18	0501	0530	1606	1635
22	0455	0523	1612	1640
26	0448	0516	1618	1646

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUN 2	0210	0245	1819	1855
6	0208	0243	1822	1858
10	0206	0242	1825	1901
14	0205	0242	1827	1904
18	0205	0242	1829	1905
22	0206	0243	1830	1906
26	0207	0244	1830	1907
30	0210	0246	1830	1906



TULCEA / Delta Dunarii - LRTC
450346N 0284252E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL 1	0145	0220	1757	1833
5	0147	0223	1756	1831
9	0151	0225	1754	1829
13	0154	0229	1752	1826
17	0159	0233	1749	1823
21	0203	0237	1746	1819
25	0208	0241	1742	1815
29	0213	0245	1737	1810

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
NOV 2	0414	0443	1453	1522
6	0419	0449	1448	1517
10	0425	0454	1443	1513
14	0430	0500	1438	1508
18	0435	0505	1435	1505
22	0440	0510	1431	1502
26	0444	0515	1429	1500
30	0449	0520	1427	1458

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
MAR 2	0411	0439	1554	1622
6	0404	0432	1600	1628
10	0357	0425	1605	1633
14	0350	0417	1610	1638
18	0342	0410	1615	1643
22	0335	0402	1621	1648
26	0327	0355	1626	1654
30	0319	0347	1631	1659

AUG 2	0218	0250	1732	1804
6	0223	0254	1727	1758
10	0228	0259	1721	1752
14	0233	0304	1715	1745
18	0239	0309	1708	1738
22	0244	0313	1702	1731
26	0249	0318	1655	1724
30	0254	0323	1647	1716

DEC 4	0453	0525	1425	1457
8	0457	0529	1425	1456
12	0500	0532	1425	1457
16	0503	0535	1425	1457
20	0506	0538	1427	1459
24	0508	0540	1429	1501
28	0509	0541	1432	1504

APR 3	0312	0340	1636	1704
7	0304	0333	1641	1710
11	0256	0325	1646	1715
15	0249	0318	1651	1720
19	0242	0311	1656	1726
23	0235	0305	1701	1731
27	0228	0258	1706	1737

SEP 3	0259	0328	1640	1709
7	0304	0333	1633	1701
11	0309	0337	1625	1653
15	0314	0342	1617	1645
19	0319	0347	1610	1638
23	0324	0352	1602	1630
27	0329	0357	1555	1622

JAN 1	0509	0541	1435	1507
5	0509	0541	1439	1511
9	0509	0540	1443	1515
13	0508	0539	1448	1519
17	0506	0537	1453	1524
21	0503	0534	1458	1529
25	0500	0530	1504	1534
29	0456	0526	1509	1539

MAY 1	0221	0252	1711	1742
5	0215	0246	1716	1748
9	0209	0241	1721	1753
13	0204	0236	1726	1758
17	0159	0231	1731	1804
21	0154	0227	1735	1808
25	0150	0224	1739	1813
29	0147	0221	1743	1817

OCT 1	0334	0402	1547	1615
5	0339	0406	1540	1607
9	0344	0412	1532	1600
13	0349	0417	1525	1553
17	0354	0422	1518	1546
21	0359	0427	1511	1540
25	0404	0432	1505	1534
29	0409	0438	1459	1528

FEB 2	0452	0522	1515	1544
6	0447	0517	1521	1550
10	0442	0511	1526	1555
14	0437	0505	1532	1601
18	0431	0459	1538	1606
22	0425	0453	1543	1612
26	0418	0446	1549	1617

JUN 2	0144	0219	1747	1821
6	0142	0217	1750	1825
10	0140	0216	1752	1828
14	0140	0215	1755	1830
18	0140	0215	1756	1832
22	0140	0216	1757	1833
26	0142	0217	1758	1833
30	0144	0219	1757	1833

TUZLA / Tuzla - LRTZ
435903N 0283635E

MONTH/ DAY	TWIL FROM	SR	SS	TWIL TO
JUL 1	0150	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

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

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

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

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

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

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

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

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

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
Instrument Approach Chart - ICAO* (IAC)		ARAD/Arad	
	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	
		BACĂU/George Enescu	
	1:500 000	LRBC ILS Z RWY 34	
	1:500 000	LRBC ILS Y RWY 34	
	1:500 000	LRBC RNP RWY 16	
	1:500 000	LRBC RNP RWY 34	
	1:500 000	LRBC NDB Z RWY 16	
	1:500 000	LRBC NDB Y RWY 16	
	1:500 000	LRBC NDB Z RWY 34	
	1:500 000	LRBC NDB Y RWY 34	
		BAIA MARE/Maramureș	
	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	
		BRAȘOV/Brașov-Ghimbav	
	1:500 000	LRBV ILS RWY 21	
	1:500 000	LRBV RNP Z RWY 03	
		BUCUREȘTI/Băneasa-Aurel Vlaicu	
	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	
		BUCUREȘTI/Henri Coandă	
	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	
		CLUJ-NAPOCA/Avram Iancu	
	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	
		CONSTANȚA/Mihail Kogălniceanu - Constanța	
	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	
		CRAIOVA/Craiova	
	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	
		IAȘI/Iași	
	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	2	3	4	
Instrument Approach Chart - ICAO* (IAC)	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		
		ORADEA/Oradea		
	1:500 000	LROD RNP RWY 19		
	1:500 000	LROD NDB Y RWY 19 A/B		
	1:500 000	LROD NDB Z RWY 19 C/D		
		SATU MARE/Satu Mare		
	1:500 000	LRSM ILS RWY 19 A/B		
	1:500 000	LRSM ILS RWY 19 C/D		
	1:500 000	LRSM VOR RWY 19 A/B		
	1:500 000	LRSM VOR RWY 19 C/D		
	1:500 000	LRSM VOR RWY 01		
		SIBIU/Sibiu		
	1:500 000	LRSB ILS RWY 27		
	1:500 000	LRSB NDB RWY 09		
		SUCEAVA/Ştefan Cel Mare-Suceava		
	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		
		TÂRGU MUREŞ/Transilvania-Târgu Mureş		
	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		
		TIMIŞOARA/Tarian Vuia		
	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		
		TULCEA/Delta Dunării		
	1:500 000	LRTC ILS RWY 34		
	1:500 000	LRTC VOR RWY 34		
	Instrument Approach Chart* (IAC)		BRAŞOV/Braşov-Ghimbav	
		1:500 000	LRBV RNP RWY 03 Contingency	
	Aerodrome Chart - ICAO* (AC)		ARAD/Arad	
		1:7 000	ARAD/Charlie-Bravo Şiria	
		1:20 000	BACĂU/George Enescu	
		1:15 000	BAIA MARE/Maramureş	
		1:5 000	BISTRIŢA/Bistriţa	
		1:20 000	BRAŞOV/Braşov-Ghimbav	
		1:5 000	BRAŞOV/Sânpetru	
			BUCUREŞTI/Băneasa-Aurel Vlaicu	
			BUCUREŞTI/Henri Coandă	
		1:10 000	CARANSEBEŞ/Banat-Caransebeş	
	1:5 000	CISNĂDIE/Măgura		
	1:6 000	CLINCENI/Clinceni		
	1:15 000	CLUJ NAPOCA/Avram Iancu		
	1:20 000	CONSTANŢA/Mihail Kogălniceanu-Constanţa		
		CRAIOVA/Craiova		
	1:5 000	CRAIOVA/Craiova-Sud		
	1:10 000	DEVA/Săuleşti-Constantin Manolache		
	1:5 000	DEZMIR/Dezmir		
	1:8 000	GHEORGHENI/Remetea		
	1:2 500	GRADIŞTEA/Grădiştea		
	1:15 000	IAŞI/Iaşi		
	1:4 000	IAŞI/Iaşi-Sud		
		ORADEA/Oradea		
	1:5 000	PITEŞTI/Geamăna		
	1:5 000	PLOIEŞTI/Gheorghe Valentin Bibescu-Ploieşti		
		SATU-MARE/Satu-Mare		
		SIBIU/Sibiu		

1	2	3	4
Aerodrome Chart - ICAO* (AC)	1:20 000	SUCEAVA/Ştefan cel Mare-Suceava	
	1:5000	TÂRGU MUREŞ/Mureşeni	
	1:15 000	TÂRGU MUREŞ/Transilvania-Târgu Mureş TIMIŞOARA/Traian Vuia	
	1:20 000 1:7 000	TULCEA/Delta Dunării TUZLA/Tuzla	
Heliport Chart - ICAO* (HC)	1:2 000	BRAŞOV/Cobrex	
	1:2 500	GHIMBAV/IAR Braşov	
	1:2 000	GHIMBAV/MIR AERO-Braşov	
	1:1 000	NĂVODARI/Midia-Constanţa	
	1:500	ORADEA/SMURD BH 2	
	1:1 000 1:1 000	OŞORHEI/Dogaru TUZLA/Tuzla	
Aircraft Parking/Docking Chart - ICAO*		ARAD/Arad - APRON 1/APRON 2	
		BACĂU/George Enescu	
		BAIA MARE/Maramureş	
		BRAŞOV/Braşov-Ghimbav	
		BUCUREŞTI/Băneasa-Aurel Vlaicu	
		BUCUREŞTI/Henri Coandă - APRON 1	
		BUCUREŞTI/Henri Coandă - APRON 2	
		BUCUREŞTI/Henri Coandă - APRON 3	
		CLUJ NAPOCA/Avram Iancu - APRON 1	
		CLUJ NAPOCA/Avram Iancu - APRON 2	
		CONSTANŢA/Mihail Kogălniceanu-Constanţa	
		CRAIOVA/Craiova - APRON 1	
		CRAIOVA/Craiova - APRON 2	
		CRAIOVA/Craiova - APRON 3 / APRON 4	
		IAŞI/Iaşi	
		ORADEA/Oradea - APRON 1	
		ORADEA/Oradea - APRON 2	
		PLOIEŞTI/Gheorghe Valentin Bibescu-Ploieşti	
		SATU MARE/Satu Mare	
		SIBIU/Sibiu	
	SUCEAVA/Ştefan cel Mare-Suceava - APRON 1		
	SUCEAVA/Ştefan cel Mare-Suceava - APRON 2		
	TÂRGU MUREŞ/Transilvania-Târgu Mureş - APRON 1		
	TÂRGU MUREŞ/Transilvania-Târgu Mureş - APRON 2		
	TIMIŞOARA/Traian Vuia - APRON		
	TULCEA/Delta Dunării		
Aerodrome Obstacle Chart - ICAO* TYPE A (AOC)	1:10 000	ARAD/Arad	AOC - A 27
	1:10 000	ARAD/Arad	AOC - A 09
	1:15 000	BACĂU/George Enescu	AOC - A 16
	1:15 000	BACĂU/George Enescu	AOC - A 34
	1:15 000	BAIA MARE/Maramureş	AOC - A 09/27
	1:15 000	BRAŞOV/Braşov-Ghimbav	AOC - A 21/03
	1:15 000	BUCUREŞTI/Băneasa-Aurel Vlaicu	AOC - A 07
	1:15 000	BUCUREŞTI/Băneasa-Aurel Vlaicu	AOC - A 25
	1:15 000	BUCUREŞTI/Henri Coandă	AOC - A 08R/26L
	1:15 000	BUCUREŞTI/Henri Coandă	AOC - A 08L/26R
	1:15 000	CLUJ NAPOCA/Avram Iancu	AOC - A 07
	1:15 000	CLUJ NAPOCA/Avram Iancu	AOC - A 25
	1:15 000	CONSTANŢA/Mihail Kogălniceanu-Constanţa	AOC - A 36/18
	1:15 000	CRAIOVA/Craiova	AOC - A 08/26
	1:20 000	IAŞI/Iaşi	AOC - A 14/32
	1:15 000	ORADEA/Oradea	AOC - A 01
	1:15 000	ORADEA/Oradea	AOC - A 19
	1:15 000	SATU MARE/Satu Mare	AOC - A 01
	1:15 000	SATU MARE/Satu Mare	AOC - A 19
	1:15 000	SIBIU/Sibiu	AOC - A 09
1:15 000	SIBIU/Sibiu	AOC - A 27	
1:20 000	SUCEAVA/Ştefan cel Mare-Suceava	AOC - A 16/34	
1:15 000	TÂRGU MUREŞ/Transilvania - Târgu Mureş	AOC - A 07	
1:15 000	TÂRGU MUREŞ/Transilvania - Târgu Mureş	AOC - A 25	
1:15 000	TIMIŞOARA/Traian Vuia	AOC - A 11	
1:15 000	TIMIŞOARA/Traian Vuia	AOC - A 29	
1:15 000	TULCEA/Delta Dunării	AOC - A 16	
1:15 000	TULCEA/Delta Dunării	AOC - A 34	
Aerodrome Ground Movement Chart - ICAO*	1:25 000	BUCUREŞTI/Henri Coandă	
		CLUJ NAPOCA/Avram Iancu	
		PLOIEŞTI/Gheorghe Valentin Bibescu-Ploieşti	
		TULCEA/Delta Dunării	
Visual Approach Chart - ICAO* (VAC)	NIL		

1	2	3	4	
Precision Approach Terrain Chart - ICAO* (PATC)	1:2 500	ARAD/Arad LRAR PATC RWY 27		
	1:2 500	BACĂU/George Enescu LRBC PATC RWY 16		
	1:2 500	LRBC PATC RWY 34		
	1:2 500	BAIA MARE/Maramureş LRBM PATC RWY 09		
	1:2 500	BRAŞOV/Braşov-Ghimbav LRBV PATC RWY 21		
	1:2 500	BUCUREŞTI/Băneasa-Aurel Vlaicu LRBS PATC RWY 07		
	1:2 500	BUCUREŞTI/Henri Coandă LROP PATC RWY 08R LROP PATC RWY 08L		
	1:2 500	CLUJ NAPOCA/Avram Iancu LRCL PATC RWY 25		
	1:2 500	CRAIOVA/Craiova LRCV PATC RWY 26		
	1:2 500	IAŞI/Iaşi LRIA PATC RWY 14		
	1:2 500	SATU MARE/Satu Mare LRSM PATC RWY 19		
	1:2 500	SIBIU/Sibiu LRSB PATC RWY 27		
	1:2 500	SUCEAVA/Ştefan cel Mare-Suceava LRSV PATC RWY 34		
	1:2 500	TÂRGU MUREŞ/Transilvania - Târgu Mureş LRTM PATC RWY 07		
	1:2 500	TIMIŞOARA/Traian Vuia LRTR PATC RWY 11		
	1:2 500	LRTR PATC RWY 29		
	RNAV Departure Chart*	1:500 000	ARAD/Arad LRAR RWY 09 LRAR RWY 27	
		1:500 000	BRAŞOV/Braşov-Ghimbav LRBV RWY 21 LRBV RWY 03	
			BUCUREŞTI/Băneasa-Aurel Vlaicu LRBS RWY 07 LRBS RWY 25	
			BUCUREŞTI/Henri Coandă LROP RWY 08L/R LROP RWY 26L/R	
		CLUJ NAPOCA/Avram Iancu LRCL RWY 07 LRCL RWY 25		
1:500 000		CRAIOVA/Craiova LRCV RWY 08		
1:500 000		LRCV RWY 26		
		SIBIU/Sibiu LRSB RWY 09 LRSB RWY 27		
		TÂRGU MUREŞ/Transilvania - Târgu Mureş LRTM RWY 07 LRTM RWY 25		
		TIMIŞOARA/Traian Vuia LRTR RWY 11 LRTR RWY 29		
RNAV Arrival Chart*			ARAD/Arad LRAR RWY 09 LRAR RWY 27	
			BUCUREŞTI/Băneasa-Aurel Vlaicu LRBS RWY 07 LRBS RWY 25	
			BUCUREŞTI/Henri Coandă LROP RWY 08L/R LROP RWY 26L/R	
			CLUJ NAPOCA/Avram Iancu LRCL RWY 07 LRCL RWY 25	
			SIBIU/Sibiu LRSB RWY 09 LRSB RWY 27	
			TÂRGU MUREŞ/Transilvania - Târgu Mureş LRTM RWY 07 LRTM RWY 25	
			TIMIŞOARA/Traian Vuia LRTR RWY 11 LRTR RWY 29	

1	2	3	4	
Standard Departure Chart - Instrument - ICAO* (SID)		ARAD/Arad LRAR RWY 09 LRAR RWY 27		
		BACĂU/George Enescu LRBC RWY 16		
	1:500 000	LRBC RWY 34		
	1:500 000	BAIA MARE/Maramureş LRBM RWY 27		
	1:500 000	BRAŞOV/Braşov-Ghimbav LRBV RWY 21		
	1:500 000	LRBV RWY 03		
		BUCUREŞTI/Băneasa-Aurel Vlaicu LRBS RWY 07 LRBS RWY 25		
		BUCUREŞTI/Henri Coandă LROP RWYs 08L/R LROP RWYs 26L/R		
		CLUJ-NAPOCA/Avram Iancu LRCL RWY 07/25		
		CONSTANŢA/Mihail Kogălniceanu - Constanţa LRCK RWY 18 LRCK RWY 36		
	1:500 000	CRAIOVA/Craiova LRCV RWY 26		
	1:500 000	LRCV RWY 08		
		IAŞI/Iaşi LRIA RWY 14		
	1:500 000	LRIA RWY 32		
		SIBIU/Sibiu LRSB RWY 09 LRSB RWY 27		
	1:500 000	SUCEAVA/Ştefan Cel Mare-Suceava LRSV RWY 16		
	1:500 000	LRSV RWY 34		
		TÂRGU MUREŞ/Transilvania - Târgu Mureş LRTM RWY 07 LRTM RWY 25		
		TIMIŞOARA/Traian Vuia-Timişoara LRTR RWY 11 LRTR RWY 29		
	Standard Arrival Chart - Instrument - ICAO* (STAR)		ARAD/Arad LRAR RWY 09 LRAR RWY 27	
		4:500 000	BACĂU/George Enescu LRBC RWY 34	
		4:500 000	LRBC RWY 16	
			BUCUREŞTI/Băneasa-Aurel Vlaicu LRBS RWY 07 LRBS RWY 25	
		BUCUREŞTI/Henri Coandă LROP RWYs 08L/R LROP RWYs 26L/R		
		CLUJ-NAPOCA/Avram Iancu LRCL RWY 07 LRCL RWY 25		
		CONSTANŢA/Mihail Kogălniceanu - Constanţa LRCK RWY 18 LRCK RWY 36		
		SIBIU/Sibiu LRSB RWY 27		
		TÂRGU MUREŞ/Transilvania - Târgu Mureş LRTM RWY 07/25		
		TIMIŞOARA/Traian Vuia - Timişoara LRTR RWY 11 LRTR RWY 29		
ATC Surveillance Minimum Altitude Chart - ICAO*			ARAD/Arad BUCUREŞTI/Băneasa-Aurel Vlaicu BUCUREŞTI/Henri Coandă CLUJ-NAPOCA/Avram Iancu CONSTANŢA/Mihail Kogălniceanu - Constanţa SIBIU/Sibiu TÂRGU MUREŞ/Transilvania - Târgu Mureş TIMIŞOARA/Traian Vuia - Timişoara	
		En-route Charts * / Area Charts * - ICAO	1:1 000 000	ENROUTE CHART - LOWER AIRSPACE 10 Free Route Airspace 10 Area Chart - ICAO - BUCUREŞTI TMA Lateral and Vertical Limits of SEE FRA - BUCUREŞTI CTA within SEE FRA ARAD TMA Lateral and vertical limits BUCUREŞTI TMA Lateral and vertical limits

1	2	3	4
En-route Charts * / Area Charts * - ICAO		NAPOC TMA Lateral and vertical limits Flight Information Service (FIS) Areas	
Index Charts *		Prohibited, Restricted and Danger Areas - Upper Airspace Temporary Reserved Areas (TRA) Upper Airspace Prohibited, Restricted and Danger Areas - Lower Airspace Temporary Reserved/Segregated Areas (TRA/TSA) Lower Airspace Aerodromes and heliports - index chart	
VFR Chart - ICAO 1:500.000	1:500 000	VFR Chart North-West ROMANIA (LR-NW) VFR Chart North-East ROMANIA (LR-NE) VFR Chart South-East ROMANIA (LR-SE) VFR Chart South-West ROMANIA (LR-SW)	5 5 5 5
VFR Chart - ICAO 1:300.000 *	1:300 000	NAPOC TMA VFR Routes	5
Visual Operations Chart*		ARAD/Arad LRAR Aerodrome traffic circuit BUCUREȘTI/Băneasa-Aurel Vlaicu LRBS RWY 07/25 Aerodrome traffic circuit - Aircraft categories A and H LRBS VFR Routes - Aircraft categories A and H BUCUREȘTI/Henri Coandă LROP Aircraft categories A and H CARANSEBEȘ/Banat-Caransebeș LRCS RWY 10/28 Aerodrome traffic circuit CISNĂDIE/Măgura LRCD RWY 14/32 Aerodrome traffic circuit PLOIEȘTI/Gheorghe Valentin Bibescu-Ploiești LRPW RWY 07/25 Aerodrome traffic circuit LRPW Heliport traffic circuit 09/27 TUZLA/Tuzla LRTZ RWY 04/22 Aerodrome traffic circuit LRTZ RWY 16/34 Aerodrome traffic circuit BRAȘOV/Sânpetru LRSP RWY 12/30 Aerodrome traffic circuit PITEȘTI/Geamăna LRPT RWY 05 Powered aircraft aerodrome traffic circuit LRPT RWY 23 Glider aerodrome traffic circuit DEVA/Săulești-Constantin Manolache LRDV RWY 12/30 Aerodrome traffic circuit ARAD/Charlie-Bravo Șiria LRCB RWY 18/36 Aerodrome traffic circuit BISTRIȚA/Bistrița LRBN RWY 05/23 Aerodrome traffic circuit GRĂDIȘTEA/Grădiștea LRBA RWY 04/22 Aerodrome traffic circuit CLINCENI/Clinceni LRCN Aerodrome traffic circuit DEZMIR/Dezmir LRCJ RWY 08/26 Aerodrome traffic circuit GHEORGHENI/Remetea LRHR RWY 09/27 Aerodrome traffic circuit CRAIOVA/Craiova-Sud LRCW RWY 12/30 Aerodrome traffic circuit IAȘI/Iași-Sud LRIS RWY 13/31 Aerodrome traffic circuit GHIMBAV/IAR BRAȘOV ORADEA/SMURD BH 2 TÂRGU MUREȘ/Mureșeni LRMS RWY 05/23 Aerodrome traffic circuit	
	1:30000		

3. Meteorological observations and reports

<i>Name of station/ Location indicator</i>	<i>Type & frequency of observation/ automatic observing equipment</i>	<i>Types of MET reports & availability of trend forecasts</i>	<i>Observation System & Site(s)</i>	<i>Hours of operation (UTC)</i>	<i>Climatological information</i>
1	2	3	4	5	6
ARAD/Arad LRAR	Half hourly plus special observations/AWOS	METAR, SPECI	SFC wind sensors 150m FM THR 09 and 380m FM THR 27 Ceilometer 400m BFR THR 27 RVR EQPT 370m and 1000m FM THR 27 Thermometer 380m FM THR 27	H24	Climatological tables AVBL
BACĂU/George Enescu LRBC	Half hourly plus special observations/AWOS	METAR, SPECI	SFC wind sensors THR 16, THR 34 Ceilometer THR 16, THR 34 RVR EQPT THR 16, MID, THR 34 Thermometer THR 16, THR 34	H24	Climatological tables AVBL
BAIA MARE/Maramureş LRBM	Half hourly plus special observations/AWOS	METAR, SPECI	SFC wind sensors 300m and 315m FM THR 09 Ceilometer 1038m BFR THR 09 RVR EQPT 300m and 1259m FM THR 09 Thermometer 300m FM THR 09	H24	Climatological tables AVBL
BRAŞOV/Braşov- Ghimbav LRBV	Half hourly plus special observations/AWOS	METAR, SPECI	SFC wind sensors 319m FM THR 03 and 327m FM THR 21 RVR EQPT 319m FM THR 03, 327m FM THR 21 and 1410m FM THR 21 Ceilometers 315m BFR THR 03 and 315m BFR THR 21 Thermometer 298m FM THR 03	H24	Climatological tables AVBL
BUCUREŞTI/Băneasa - Aurel Vlaicu LRBS	Half hourly plus special obscevnations/AWOS	METAR, SPECI, TREND,WS	SFC wind sensors 130m FM THR 07 and THR 25 RVR EQPT 300m, 1500m and 2700m FM THR 07 Ceilometers 1095m BFR THR 07 and 1140m BFR THR 25 Thermometer next to MET station	H24	Climatological tables AVBL
BUCUREŞTI/Henri Coandă LROP	Half hourly plus special observations/AWOS	METAR, SPECI, TREND,WS	SFC wind sensors 130m FM THRs 08R, 08L, 26R and 26L RVR EQPT 300m, 1750m and 3200m FM THRs 08R and 08L Ceilometers 1094m BFR THR 08R, 1039m BFR THR 26L, 964m BFR THR 08L and 1116m BFR THR 26R Thermometer near TWY R	H24	Climatological tables AVBL
CLUJ NAPOCA/ Avram Iancu LRCL	Half hourly plus special observations/AWOS	METAR, SPECI	SFC wind sensors 64m FM THR 07 and 165m FM THR 25 Ceilometer 143m FM THR 25 RVR EQPT 150m and 1000m FM THR 25 Thermometer 165m FM THR 25	H24	Climatological tables AVBL
CONSTANŢA/Mihail Kogalniceanu - Constanţa LRCK	Half hourly plus special observations/AWOS	METAR, SPECI, TREND, WS	SFC wind sensors 400m FM THR 18 and 408m FM THR 36 RVR EQPT 400m FM THR 18 and 408m and 1708m FM THR 36 Ceilometers 1197m BFR THR18 and 1067m BFR THR 36 Thermometer 172m BFR THR 36	H24	Climatological tables AVBL
CRAIOVA/Craiova LRCV	Half hourly plus special observations/AWOS METAR AUTO and SPECI AUTO outside aerodrome operational hours.	METAR, SPECI	SFC wind sensors 385m FM THR 08 and 376m FM THR 26 Ceilometers 350m FM THR 08 and 1174m BFR THR 26 RVR EQPT 370m FM THR 08, 376m FM THR 26 and 1026m FM THR 26 Thermometer 376m FM THR 26	H24	Climatological tables AVBL

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

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

BRAȘOV / Brașov-Ghimbav (LRBV)**1. Landing Charge**

UNIT RATE: 3.20 EURO / tonne

2. Lighting charge

UNIT RATE: 1.80 EURO / tonne

3. Parking charge

UNIT RATE: 0.10 EURO / tonne / hour

4. Passengers service

UNIT RATE: 3.50 EURO / passenger

SECURITY CHARGE: 1.50 EURO / passenger

5. Other charges

5.1 Charge for persons with reduced mobility (in accordance with requirements of CE Regulation no. 1107 / 05 JUL 2006)

To cover the cost of processing persons with reduced mobility (PRM), an additional fee is applied per each embarked passenger with departure point LRBV.

UNIT RATE: 0.30 EURO / embarked passenger with departure point LRBV

6. Exemptions

NIL

7. Reductions**General conditions**

The incentive schemes are available to all airlines that cumulatively meet the eligibility conditions, on a non-discriminatory, transparent and fair basis, according to the charges published in AIP Romania.

The incentives may not be cumulated with other types or discount grids associated with the charges.

During the validity period of each incentive scheme for which the application is submitted, the airlines benefiting from an incentive scheme cannot opt to change it.

After the period of granting the discounts associated to each incentive scheme, the charges published in AIP Romania in their entirety will apply.

7.1 Incentive scheme for opening new routes

AIRPORT CHARGE	DISCOUNT (%)		
	YEAR 1	YEAR 2	YEAR 3
Landing charge	60	50	40
Passenger Service charge	60	50	40

Note: The discounts are granted based on a contract signed between the airport administration and the airline operator.

The full eligibility criteria can be accessed on the airport website at the following link:

<https://brasovairport.ro/tarife-aeroportuare/>

BRAȘOV / Brașov-Ghimbav (LRBV)

1. Tariful de aterizare

NIVELUL UNITAR AL TARIFULUI: 3.20 EURO / tonă

2. Tariful de iluminare

NIVELUL UNITAR AL TARIFULUI: 1.80 EURO / tonă

3. Tariful de staționare

NIVELUL UNITAR AL TARIFULUI: 0.10 EURO / tonă / oră

4. Servicii pentru pasageri

NIVELUL UNITAR AL TARIFULUI: 3.50 EURO / pasager

TARIF DE SECURITATE: 1.50 EURO / pasager

5. Alte tarife

5.1 Tarif pentru pasageri cu mobilitate redusă (conform Regulamentului CE nr. 1107/05 Iulie 2006)

Pentru a acoperi cheltuielile aferente procesării persoanelor cu mobilitate redusă (PMR), se aplică un tarif suplimentar pentru fiecare pasager îmbarcat cu punctul de plecare LRBV.

NIVELUL UNITAR AL TARIFULUI: 0.30 EURO / pasager îmbarcat cu punctul de plecare LRBV

6. Scutiri

NIL

7. Reduceri

Condiții generale:

Schemele de stimulare sunt disponibile tuturor operatorilor aerieni care îndeplinesc cumulativ condițiile de eligibilitate, pe o bază nediscriminatorie, transparentă și echitabilă, conform tarifelor publicate în AIP România.

Schemele nu pot fi cumulate cu alte tipuri sau grile de reduceri asociate tarifelor.

Pe perioada de valabilitate a fiecărei scheme de stimulare pentru care se depune aplicația, companiile aeriene beneficiare a unei scheme de stimulare nu pot opta pentru schimbarea acesteia.

După perioada de acordare a reducerilor asociate fiecărei scheme de stimulare, se vor aplica tarifele publicate în AIP România în integralitatea lor.

7.1 Schemă de stimulare în vederea deschiderii de noi rute

TARIF AEROPORTUAR	DISCOUNT (%)		
	AN 1	AN 2	AN 3
Tarif de aterizare	60	50	40
Tarif de Servicii pentru pasageri	60	50	40

Notă:

Reduceri se acordă în baza unui contract încheiat între administrația aeroportului și operatorul aerian.

Toate criteriile de eligibilitate pot fi consultate pe website-ul aeroportului la următorul link:

<https://brasovairport.ro/tarife-aeroportuare/>

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COMPULSORY ARRIVAL CONNECTING ROUTES		
COMPULSORY Arrival Connecting Route	STAR first point /Intermediate Point	Airport
MIKVI Z650 REDKU	REDKU	LRBC
FOCSA T74 KENUX	KENUX	
POGAV Z650 DIRCO	DIRCO	
ABOLO T74 GUXVA	GUXVA	
ADMEC T4 SALAC	SALAC	
PELES T4 TULNU	TULNU	
RUMUK T995 VELSE	VELSE	LRBM
REPTO T33 BUZZE	BUZZE	
SAT T33 SOMET	SOMET	
OKLIV T995 FABZO	FABZO	
IRLOX DCT BIVBU DCT TOSVI	TOSVI	LROP
LAMIT DCT TOSVI		
VELIP DCT TOSVI		
PEMOK T899 TOSVI		
OVDOT T139 TITEK	TITEK	LRCV
LAMIT Z938 TITEK		
VAMON T285 PEMOK		
NAVOD T226 PANZU		
GUXVA T74 ABOLO	ABOLO	LRIA
TOMUC P133 ARPIG		
ROMAG M423 URNEQ	URNEQ	LROD
CONWI Y559 RUPUG	RUPUG	
AGMEL M423 TUVNU	TUVNU	
OBARA Z941 ORXIK	ORXIK	
BUXLE Z942 BAVMA	BAVMA	
BADOR Z921 URNEQ	URNEQ	
ROMAG M423 TISAD	TISAD	LRSM
ANAVU T90 JIBOU	JIBOU	
RUMUK M423 SAT	SAT	
BUZZE T33 BMR T33 SOMET	SOMET	
KARIL Z949 TISAD	TISAD	
KARIL T33 SAT	SAT	
ADMEC T4 PASKA	PASKA	LRSV
ARPIG P133 TOMUC	TOMUC	
BUKOV DCT SCV	SCV	
HUMOR DCT SCV	SCV	
GLT Z934 DUNAV	DUNAV	LRTC
PILAT T77 DANUL	DANUL	
CETUL L130 TURIR	TURIR	

COMPULSORY DEPARTURE CONNECTING ROUTES

Airport	SID last point/Intermediate Point	COMPULSORY Departure Connecting Route
LRBC	REDKU	REDKU Z650 MIKVI
	KENUX	KENUX T74 FOCSA
	DIRCO	DIRCO Z650 POGAV
	GUXVA	GUXVA T74 ABOLO
	SALAC	SALAC T4 ADMEC
	BCU	BCU T4 TULNU T4 PELES
	IBGIR	IBGIR Z924 APTAN
	GAROC	GAROC Z933 INBID
LRBM	VELSE	VELSE T995 RUMUK
	BUZZE	BUZZE T33 REPTO
	SOMET	SOMET T33 SAT
	FABZO	FABZO T995 OKLIV
LRBS	IDARU	IDARU DCT EFJAS
LRCV	TITEK	TITEK Z938 LAMIT
	PEMOK	PEMOK T285 VAMON
	PEMOK	PEMOK T899 TOSVI
	LELTI	LELTI Y88 ANASA
	BACAM	BACAM T226 SODGO
LRIA	ARPIG	ARPIG P133 TOMUC
	ABOLO	ABOLO T74 GUXVA
LROD	URNEQ	URNEQ M423 ROMAG
	RUPUG	RUPUG Y559 CONWI
	TUVNU	TUVNU M423 AGMEL
	BAVMA	BAVMA Z942 BUXLE
	ORXIK	ORXIK Z941 OBARA
	URNEQ	URNEQ Z921 BADOR
LROP	IDARU	IDARU DCT EFJAS
LRSM	TISAD	TISAD M423 ROMAG
	JIBOU	JIBOU T90 ANAVU
	SAT	SAT M423 RUMUK
	SOMET	SOMET T33 BMR T33 BUZZE
	SAT	SAT T33 KARIL
LRSV	PASKA	PASKA T4 ADMEC
	TOMUC	TOMUC P133 ARPIG
LRTC	DUNAV	DUNAV Z934 GLT
	DANUL	DANUL T77 PILAT
	TURIR	TURIR L130 CETUL
	LOBKI	LOBKI L130 BADKA
	REBDI	REBDI Z935 RIPGA

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	Z930
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T90	Z937
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Y34	Z946
Y88	Z947
Y559	Z948
Y572	Z949
Y574	

1	2	3	4	5	6	7
P133 (RNAV 5)		157.6				
▲AKUPO 470004N0242344E	CLJ 058°/27.8 1600	- 34.4 235°				+/- 5NM
▲BIBOR 471609N0250821E	CLJ 057°/62.2 1600	- 33.5 237°	FL105 FL95			+/- 5NM
▲HUMOR 473053N0255235E	SCV 237°/21.8 1300	- 21.8 237°	Class C			+/- 5NM
△SUCEAVA DVOR/DME (SCV) 474020N0262139E	BCU 338°/72.3 1800	- 21.3 291°			↑	+/- 5NM
▲TOMUC 473027N0264934E	BCU 353°/59.8 1800	111° 22.0 291°	FL105 FL35 Class C	↓		+/- 5NM
▲ARPIG 472008N0271810E	BCU 014°/53.3 1800	111° 2.3 291°				+/- 5NM
△BELMU 471902N0272111E	BCU 017°/53.0 1800	111° 10.5 291°	FL105 FL55			+/- 5NM
△IAȘI NDB (ISI) 471403N0273447E	BCU 028°/53.4 1800	102° 11.8 283°	Class C			+/- 5NM
▲UNIRA (FIR BDRY) 471006N0275106E	BCU 040°/57.8 1800				↑	
						For continuation, see AIP MOLDOVA

1	2	3	4	5	6	7
T4 (RNAV 5)		210.3				
▲PILAT 444926N0280552E	TLA 233°/30.2 300	326° 53.4	FL105 FL65		↓ +/- 5NM	PILAT IAR T77
▲EVIKA 453645N0273050E	BCU 145°/61.1 1800	145° 325° 41.1	Class C		+/- 5NM	
△PELES 461302N0270312E	BCU 145°/20.0 1800	145° 325° 4.3	FL105 FL45 Class C		+/- 5NM	
▲TULNU 461650N0270016E	BCU 145°/15.7 1800	145° 325° 15.7	FL105 FL65		+/- 5NM	TULNU IAR Z947
△BACĂU DVOR/DME (BCU) 463039N0264932E	SCV 158°/72.3 1300	338° 14.3	Class C		+/- 5NM	BACĂU DVOR/DME (BCU) IAR T74, Z650, Z924, Z933
▲SALAC 464427N0264407E	BCU 338°/14.3 1800	158° 338° 5.0	FL105 FL45 Class C		+/- 5NM	
▲EPCAR 464916N0264213E	BCU 338°/19.3 1800	158° 338° 19.3	FL105 FL55		+/- 5NM	
▲ADMEC 470751N0263448E	SCV 158°/33.7 1300	338° 12.7	Class C	↑	+/- 5NM	ADMEC IAR Y34
▲PASKA 472003N0262954E	SCV 158°/21.1 1300	338° 21.1			↓ +/- 5NM	
△SUCEAVA DVOR/DME (SCV) 474020N0262139E	BCU 338°/72.3 1800	- 309° 23.4	FL105 FL95 Class C		+/- 5NM	SUCEAVA DVOR/DME (SCV) IAR P133
▲BUKOV (FIR BDRY) 475706N0255730E	SCV 311°/23.4 1300	-				
						For continuation, see AIP UKRAINE

1	2	3	4	5	6	7
T33 (RNAV 5)		140.3				
▲ HUMOR 473053N0255235E	SCV 238°/21.8 1300	270° 76.5 -	<u>FL105</u> FL95 Class C		↓ 	+/- 5NM
△ REPTO 473811N0240000E	SAT 092°/45.2 500	269° 8.4 089°			↓	+/- 5NM
▲ BUZZE 473851N0234737E	CLJ 354°/50.9 1600	269° 18.2 089°				+/- 5NM
△ BAI A MARE NDB (BMR) 474016N0232045E	SAT 095°/18.6 500	276° 7.6 095°	<u>FL105</u> FL55			+/- 5NM
▲ SOMET 474140N0230939E	SAT 095°/11.0 500	275° 11.0 095°	Class C			+/- 5NM
△ SATU MARE DVOR/DME (SAT) 474339N0225338E	CLJ 321°/66.6 1600	277° 18.7 097°				+/- 5NM
▲ KARIL (FIR BDRY) 474738N0222632E	SAT 277°/18.7 500			↑		
						BAIA MARE NDB (BMR) IAR T995
						SATU MARE DVOR/DME (SAT) IAR M423, T90
						For continuation, see AIP HUNGARY

1	2	3	4	5	6	7
T74 (RNAV 5)		145.4				
▲DENAK 450008N0262608E	STJ 069°/20.2 600	004° 17.7 184°	FL105 FL85	↓	+/- 5NM	FOCSA IAR Z947 BACĂU DVOR/DME (BCU) IAR T4, Z650, Z924, Z933 TEVSA IAR Z931 ABOLO IAR Y33 IAȘI NDB (ISI) IAR P133, Y32
△LAPKA 451734N0263033E	STJ 039°/31.9 600	004° 12.4 183°	Class C	↑	+/- 5NM	
△URELA 452948N0263340E	BRV 089°/42.2 5900	- 30.4 184°	FL105 FL95 Class C	↑	+/- 5NM	
▲FOCSA 455941N0264123E	BCU 183°/31.5 1800	003° 18.2 183°	FL105 FL55 Class C	↓	+/- 5NM	
▲KENUX 461732N0264604E	BCU 183°/13.3 1800	003° 13.3 183°	FL105 FL65		+/- 5NM	
△BACĂU DVOR/DME (BCU) 463039N0264932E	SCV 158°/72.3 1300	028° 17.4 209°	Class C		+/- 5NM	
▲GUXVA 464448N0270407E	BCU 028°/17.4 1800	029° 9.5 209°	FL105 FL45		+/- 5NM	
△TEVSA 465234N0271212E	BCU 028°/26.9 1800	029° 9.2 209°	Class C		+/- 5NM	
▲ABOLO 470001N0271959E	BCU 028°/36.1 1800	029° 17.3 209°	FL105 FL55		+/- 5NM	
△IAȘI NDB (ISI) 471403N0273447E	BCU 028°/53.4 1800		Class C	↑		

1	2	3	4	5	6	7
T995 (RNAV 5)		46.4				
△OKLIV 471618N0233121E	CLJ 333°/30.3 1600	337° 10.3			↓	+/- 5NM
▲FABZO 472612N0232659E	SAT 122°/28.5 500	163° 343° 14.7				+/- 5NM
△BAIA MARE NDB (BMR) 474016N0232045E	SAT 095°/18.6 500	157° 354° 11.6	<u>FL105</u> FL55 Class C			+/- 5NM
▲VELSE 475150N0232040E	SAT 060°/20.0 500	180° 360° 9.8				+/- 5NM
▲RUMUK (FIR BDRY) 480136N0232036E	SAT 039°/25.5 500	174°		↑		
						BAIA MARE NDB (BMR) IAR T33
						RUMUK IAR M423
						For continuation, see AIP UKRAINE

1	2	3	4	5	6	7
Y32 (RNAV 5)		64.1				
△RAMIX 461722N0272019E	BCU 115°/25.1 1800	020° 36.0	<u>FL105</u> FL55	↓		+/- 5NM
△PIRIG 464932N0274344E	BCU 056°/41.8 1800	200° 020° 8.5	Class C <u>FL105</u> FL35			+/- 5NM
▲LESVO 465707N0274920E	BCU 050°/48.9 1800	200° 323° 19.6	Class C <u>FL105</u> FL55	↑	↓	+/- 5NM
△IAȘI NDB (ISI) 471403N0273447E	BCU 028°/53.4 1800	143°	Class C	↑		
						PIRIG IAR Z931
						IAȘI NDB (ISI) IAR P133, T74

1	2	3	4	5	6	7
Y33 (RNAV 5)		19.0				
▲ABOLO 470001N0271959E	BCU 028°/36.1 1800	355° 19.0	FL105 FL55	↓	+/- 5NM	ABOLO IAR T74
△BELMU 471902N0272111E	SCV 110°/45.7 1300	-	Class C			BELMU IAR P133

1	2	3	4	5	6	7
Y34 (RNAV 5)		55.5				
△UDSIG 465840N0260313E	BCU 305°/42.4 1800	060° 23.5	FL105 FL85	↓	+/- 5NM	ADMEC IAR T4
▲ADMEC 470751N0263448E	SCV 158°/33.7 1300	240° 060° 18.6	Class C FL105 FL55		+/- 5NM	
△KERLO 471502N0270000E	SCV 127°/36.3 1300	240° 060° 13.4	Class C FL105 FL35		+/- 5NM	ARPIG IAR P133
△ARPIG 472008N0271810E	SCV 110°/43.3 1300	241°	Class C	↑		

1	2	3	4	5	6	7
Y88 (RNAV 5)		115.0				
▲POLUN 441415N0251324E	FLR 227°/26.2 400	267° 24.5	FL105 FL85	↓	+/- 5NM	POLUN IAR Z944
△VIKBI 441531N0243921E	FLR 247°/47.6 400	- 267° 38.8	Class C		+/- 5NM	ELDET IAR T226
△ELDET 441710N0234521E	TGJ 153°/49.9 900	- 267° 14.2	FL105 FL55		+/- 5NM	
▲LELTI 441740N0232532E	TGJ 170°/46.1 900	- 267° 37.5	Class C		+/- 5NM	
▲ANASA (FIR BDRY) 441843N0223319E	TGJ 211°/55.9 900	-				
						For continuation, see AIP SERBIA AND MONTENEGRO

1	2	3	4	5	6	7
Z650 (RNAV 5)		135.2				
▲DOKUD 462807N0245721E	CLJ 106°/52.3 1600	- 26.4 261°	FL105 FL95		+/- 5NM	TOMET IAR Z922
▲TOMET 462912N0253532E	BCU 262°/51.1 1800	- 22.1 261°	Class C	↑	+/- 5NM	
▲MIKVI 462955N0260733E	BCU 262°/29.0 1800	081° 10.0 261°	FL105 FL75 Class C	↓	+/- 5NM	BACĂU DVOR/DME (BCU) IAR T4, T74, Z924, Z933
△BUCSA 463012N0262202E	BCU 262°/19.0 1800	081° 7.5 262°			+/- 5NM	
▲REDKU 463024N0263256E	BCU 262°/11.5 1800	082° 11.5 262°			+/- 5NM	
△BACĂU DVOR/DME (BCU) 463039N0264932E	SCV 160°/72.3 1300	066° 18.5 247°	FL105 FL65		+/- 5NM	
▲DIRCO 463558N0271517E	BCU 066°/18.5 1800	066° 6.0 247°	Class C		+/- 5NM	
△ASTOD 463740N0272337E	BCU 066°/24.5 1800	067° 33.2 247°			+/- 5NM	
▲POGAV (FIR BDRY) 464654N0281000E	BCU 066°/57.8 1800			↑		
						For continuation, see AIP MOLDOVA

1	2	3	4	5	6	7
Z921 (RNAV 5)		20.1				
▲URNEQ 471420N0220807E	CLJ 286°/72.8 1600	351° 20.1 171°	FL105 FL45	↓	+/- 5NM	URNEQ IAR M423
▲BADOR (FIR BDRY) 473425N0220629E	CLJ 299°/82.9 1600		Class C	↑		BADOR IAR Z932
						For continuation, see AIP HUNGARY

1	2	3	4	5	6	7
Z922 (RNAV 5)		31.4				
▲EBCOL 455918N0254909E	BCU 227°/52.3 1800	336° 8.0	FL105 FL75	↓	+/- 5NM	TOMET IAR Z650
▲COZMU 460656N0254542E	BCU 235°/50.2 1800	156° 336° 23.4	Class C	↑	+/- 5NM	
▲TOMET 462912N0253532E	BCU 262°/51.1 1800	-	FL105 FL95	↓	+/- 5NM	
			Class C			

1	2	3	4	5	6	7
Z924 (RNAV 5)		79.6				
△APTAN 462315N0262056E	BRV 027°/59.1 5900	- 9.7			+/- 5NM	BACĂU DVOR/DME (BCU) IAR T4, T74, Z650, Z933
▲IBGIR 462639N0263359E	BRV 032°/67.3 5900	242° - 11.5			+/- 5NM	
△BACĂU DVOR/DME (BCU) 463039N0264932E	SCV 158°/72.3 1300	243° - 18.4	FL105 FL65		+/- 5NM	
▲PEQIN 463836N0271338E	BCU 057°/18.4 1800	238° - 40.0	Class C		+/- 5NM	
▲BUSES (FIR BDRY) 465533N0280622E	BCU 057°/58.4 1800	238°		↑		BUSES IAR Z940

1	2	3	4	5	6	7
Z930 (RNAV 5)		29.0				
▲RIVOS 443921N0273917E	CND 296°/41.8 300	269° 29.0	FL105 FL55	↓	+/- 5NM	
▲NETUL 444143N0265843E	OPT 065°/19.0 300	088°	Class C	↑		

1	2	3	4	5	6	7	
Z931 (RNAV 5)		21.8					
△PIRIG 464932N0274344E	BCU 056°/41.8 1800	271° 6.0	FL105 FL55 Class C	↓	+/- 5NM	PIRIG IAR Y32	
△ULGAP 465023N0273503E	BCU 051°/37.0 1800	091° 271° 15.8				+/- 5NM	ULGAP IAR Z940
△TEVSA 465234N0271212E	BCU 028°/26.9 1800	091°				↑	TEVSA IAR T74

1	2	3	4	5	6	7
Z932 (RNAV 5)		15.5				
△ROMAG 472522N0222507E	SAT 221°/26.6 500	300° 15.5	FL105 FL95 Class C	↓	+/- 5NM	ROMAG IAR M423
▲BADOR (FIR BDRY) 473425N0220629E	SAT 248°/33.2 500	-				BADOR IAR Z921
						For continuation, see AIP HUNGARY

1	2	3	4	5	6	7	
Z933 (RNAV 5)		30.5					
△BACĂU DVOR/DME (BCU) 463039N0264932E	SCV 158°/72.3 1300	297° 12.2	FL105 FL65 Class C	↓	+/- 5NM	BACĂU DVOR/DME (BCU) IAR T4, T74, Z650, Z924	
▲GAROC 463728N0263447E	BCU 297°/12.2 1800	117° 297° 18.3					+/- 5NM
△INBID 464736N0261234E	BCU 297°/30.6 1800	116°					↑

1	2	3	4	5	6	7
Z934 (RNAV 5)		42.7				
△TIRVO 445933N0284411E	TLA 161°/5.3 300	301° 13.5	<u>FL105</u> FL65	↓	+/- 5NM	TIRVO IAR L130, T77, Z935
△DUNAV 450738N0282855E	TLA 281°/10.1 300	301° 16.8	<u>FL105</u> FL45			
△VOSLE 451738N0280950E	TLA 293°/26.5 300	120° 12.4	Class C <u>FL105</u> FL55		+/- 5NM	
△GALAȚI DVOR/DME (GLT) 452459N0275540E	TLA 295°/38.8 300	120°	Class C			

1	2	3	4	5	6	7
Z935 (RNAV 5)		37.4				
△TIRVO 445933N0284411E	TLA 161°/5.3 300	283° 11.8	<u>FL105</u> FL65	↓	+/- 5NM	TIRVO IAR L130, T77, Z934
△REBDI 450322N0282825E	TLA 256°/10.1 300	- 25.6	Class C <u>FL105</u> FL55			
△RIPGA 451131N0275407E	GLT 178°/13.5 200	-	Class C			

1	2	3	4	5	6	7
Z936 (RNAV 5)		25.7				
▲DIRAL 443039N0273315E	CND 283°/42.0 300	282° 25.7	<u>FL105</u> FL55	↓	+/- 5NM	
▲IDARU 443825N0265854E	OPT 075°/18.3 300	101°	Class C			

1	2	3	4	5	6	7
Z937 (RNAV 5)		33.1				
▲ SOMOV (FIR BDRY) 434200N0245100E	CRV 126°/54.7 600	046° 33.1	<u>FL105</u> FL95		↓	+/- 5NM
▲ SORDU 440233N0252648E	FLR 197°/29.7 400	-	Class C			

1	2	3	4	5	6	7
Z938 (RNAV 5)		37.6				
▲ TITEK 442936N0233426E	CRV 300°/18.3 600	342° 37.6	<u>FL105</u> FL55		↓	+/- 5NM
▲ LAMIT 450614N0232229E	TGJ 028°/3.1 900	162°	Class C	↑		
						TITEK IAR T139

1	2	3	4	5	6	7
Z939 (RNAV 5)		53.4				
▲ NOPTI 461855N0215947E	ARD 072°/36.4 400	073° 10.5		↓		+/- 5NM
△ EVRIK 462107N0221432E	DVA 311°/43.7 900	253° 063° 29.0	<u>FL105</u> FL85			+/- 5NM
△ BUKAN 463154N0225330E	CLJ 241°/40.4 1600	242° 019° 13.9	Class C			+/- 5NM
▲ ELROM 464431N0230155E	CLJ 258°/31.3 1600	199°		↑		
						EVRIK IAR Z942, Z945
						BUKAN IAR Y559
						ELROM IAR Y572

1	2	3	4	5	6	7
Z940 (RNAV 5) ▲ULGAP 465023N0273503E ▲BUSES (FIR BDRY) 465533N0280622E	BCU 051°/37.0 1800	22.1				
		069°	FL105 FL65 Class C	↓ ↑	+/- 5NM	ULGAP IAR Z931
	22.1 250°	BUSES IAR Z924				
	BCU 057°/58.4 1800					
						For continuation, see AIP MOLDOVA

1	2	3	4	5	6	7
Z941 (RNAV 5) ▲ATSOS 465945N0225115E ▲OBARA 470153N0224259E ▲ORXIK 470907N0221443E ▲RULES 471146N0220411E ▲NARKA (FIR BDRY) 471454N0215136E	CLJ 282°/40.1 1600	43.5				
		285°	FL105 FL75 Class C	↓ ↑	+/- 5NM	
		6.1				
	105°					
	SAT 184°/42.4 500	285°	FL105 FL55 Class C	+/- 5NM		
		20.6				
	SAT 212°/43.5 500	285°	+/- 5NM			
		7.7				
	SAT 221°/46.3 500	285°	+/- 5NM			
		9.1				
SAT 230°/51.0 500	105°					
						For continuation, see AIP HUNGARY

1	2	3	4	5	6	7
Z942 (RNAV 5)		56.1				
△EVRIK 462107N0221432E	DVA 311°/43.7 900	339° 7.0	<u>FL105</u> FL85		↓	+/- 5NM
▲BUXLE 462750N0221143E	ARD 063°/46.8 400	339° 14.9	Class C			+/- 5NM
▲GANNA 464207N0220541E	ARD 046°/50.2 400	339° 5.0	<u>FL105</u> FL45			+/- 5NM
▲BAVMA 464654N0220338E	ARD 041°/52.3 400	339° 19.9				+/- 5NM
△ORADEA NDB (ORA) 470601N0215527E	SAT 221°/54.6 500	339° 9.3	<u>FL105</u> FL55			+/- 5NM
▲NARKA (FIR BDRY) 471454N0215136E	SAT 230°/51.0 500	159°	Class C		↑	
						ORADEA NDB (ORA) IAR M423, Y559
						NARKA IAR Z941
						For continuation, see AIP HUNGARY

1	2	3	4	5	6	7
Z943 (RNAV 5)		47.6				
△VAMON 442358N0244047E	CRV 075°/32.9 600	284° 47.6	<u>FL105</u> FL55		↓	+/- 5NM
△GIKUN 444013N0233811E	CRV 323°/24.4 600	-	Class C			
						VAMON IAR T285

1	2	3	4	5	6	7
Z944 (RNAV 5)		53.9				For continuation, see AIP BULGARIA
▲TIMUR (FIR BDRY) 434120N0241421E	CRV 154°/40.2 600	- 53.9	<u>FL105</u> FL95			+/- 5NM
▲POLUN 441415N0251324E	FLR 227°/26.2 400	227°	Class C		↑	
						POLUN IAR Y88

1	2	3	4	5	6	7
Z945 (RNAV 5)		34.2				
△EVRIK 462107N0221432E	DVA 311°/43.7 900	080° 34.2	<u>FL105</u> FL85	↓	+/- 5NM	EVRIK IAR Z939, Z942
△TIDGA 462339N0230347E	DVA 001°/34.2 900	260°	Class C	↑		TIDGA IAR Y559

1	2	3	4	5	6	7
Z946 (RNAV 5)		12.0				
▲ARGES (FIR BDRY) 440456N0264936E	OPT 154°/32.7 300	343° 12.0	<u>FL105</u> FL95	↓	+/- 5NM	
▲OSTAL 441641N0264622E	OPT 148°/21.0 300	-	Class C			

1	2	3	4	5	6	7
Z947 (RNAV 5)		21.6				
▲FOCSA 455941N0264123E	BCU 183°/31.5 1800	030° 21.6	<u>FL105</u> FL45	↓	+/- 5NM	FOCSA IAR T74
△TULNU 461650N0270016E	BCU 145°/15.7 1800	211°	Class C	↑		TULNU IAR T4

1	2	3	4	5	6	7
Z948 (RNAV 5)		43.1				
▲LARMU 471501N0230809E	SAT 155°/30.3 500	313° 43.1	<u>FL105</u> FL85	↓	+/- 5NM	KARIL IAR Z949
▲KARIL (FIR BDRY) 474738N0222632E	SAT 277°/18.7 500	133°	Class C	↑		
						For continuation, see AIP HUNGARY

ENR 4. RADIO NAVIGATION AIDS/SYSTEMS

ENR 4.1 RADIO NAVIGATION AIDS - EN-ROUTE

Name of station (VOR/VAR)	ID	FREQ (CH)	Hours of operation	Coordinates	ELEV DME antenna (FT)	Remarks
1	2	3	4	5	6	7
ADAMCLISI DME	ADM	1077.000MHz (53X)	H24	440525N 0275739E	700	Coverage 100 NM*
ARAD DVOR/DME (5°E/2017)	ARD	109.000 MHz (CH 27X)	H24	461103N 0210837E	400	Coverage 175 NM*
ARINI DME	ARN	1060.000MHz (36Y)	H24	462246N 0270924E	1900	Coverage 100 NM*
BACĂU DME	BAC	1145.000 MHz (CH 121X)	H24	463005N 0265505E	700	Coverage 100 NM** Unusable in sector 210°-290°
BACĂU DVOR/DME (7°E/2020)	BCU	109.400 MHz (CH 31X)	H24	463039N 0264932E	1800	Coverage 175 NM* FRA (I)
BAIA MARE NDB	BMR	404 KHz	H24	474016N 0232045E		Coverage 100 NM** FRA (I)
BĂIȘOARA DME	BAI	1150.000 MHz (CH 126Y)	H24	462928N 0231412E	6000	Coverage 100 NM** Unusable in sector 140°-260°
BRAȘOV DVOR/DME (6°E/2019)	BRV	117.600 MHz (CH 123X)	H24	453403N 0253353E	5900	Coverage 175 NM* DVOR unusable over 20 NM bellow FL180 in sector 230°-080° clockwise FRA (I)
CENEI DME	CNI	1127.000 MHz (CH 103X)	H24	454258N 0205427E	300	Coverage 100 NM**
CICĂU DME	CIC	1083.000MHz (59Y)	H24	461940N 0233211E	3400	Coverage 100 NM* Unusable in sector 230°-340°
CLUJ DVOR/DME (5°E/2015)	CLJ	111.200 MHz (CH 49X)	H24	464800N 0234714E	1600	Coverage 175 NM*
COMANA DME	COM	1069.000MHz (45X)	H24	441033N 0260859E	400	Coverage 100 NM*
CONSTANȚA DVOR/DME (7°E/2021)	CND	112.700 MHz (CH 74X)	H24	441708N 0282842E	300	Coverage 150 NM* FRA (I): FL175 - FL660
CRAIOVA DVOR/DME (5°E/2019)	CRV	110.200 MHz (CH 39X)	H24	441907N 0235522E	600	Coverage 100 NM* FRA (I)
DEALUL CIUHII DME	CHU	1053.000 MHz (CH 29X)	H24	461059N 0244914E	2500	Coverage 100 NM** Unusable in sector 110°-205°
DEVA DVOR/DME (5°E/2019)	DVA	109.800 MHz (CH 35X)	H24	454941N 0225808E	900	Coverage 100 NM* FRA (I)
FLOREȘTI VOR/DME (5°E/2010)	FLR	112.200 MHz (CH 59X)	H24	443003N 0254229E	400	Coverage 150 NM* FRA (I): FL175 - FL660
GALAȚI DVOR/DME (6°E/2019)	GLT	108.200 MHz (CH 19X)	H24	452459N 0275540E	200	Coverage 175 NM* FRA (I) FRA (AD): LRTC

1	2	3	4	5	6	7
HADÂMBU DME	HDB	1046.000MHz (22X)	H24	470054N 0272526E	1500	Coverage 100 NM*
HENIU DME	HNU	1087.000 MHz (CH 63X)	H24	471639N 0244407E	5400	Coverage 100 NM** Unusable in sector 310°-075°
IAȘI DME	ISI	1106.000 MHz (CH 82X)	H24	471404N 0273446E	300	Coverage 100 NM** Unusable in sector 200°-230°
IAȘI NDB	ISI	351 KHz	H24	471403N 0273447E		Coverage 50 NM** FRA (I)
ISTRITA DME	ISA	1129.000MHz (105Y)	H24	450709N 0263235E	2500	Coverage 100 NM*
LUGOJ DME	LGJ	1091.000 MHz (CH 67X)	H24	454311N 0215942E	800	Coverage 100 NM** Unusable in sector 065°-180°
ODOBEȘTI DME	ODB	1054.000MHz (30Y)	H24	464152N 0271000E	1600	Coverage 100 NM*
ORADEA NDB	ORA	418 KHz	H24	470601N 0215527E		Coverage 100 NM** FRA (I)
PĂLTINIȘ DME	PLT	1102.000MHz (78X)	H24	453832N 0235637E	5800	Coverage 100 NM* Unusable in sector 90°-92° and 190°-260°
PICIOR DE MUNTE DME	PMT	1118.000MHz (94X)	H24	444638N 0252308E	900	Coverage 100 NM*
ROȘIORI DVOR/DME (5°E/2010)	OPT	117.100 MHz (CH 118X)	H24	443533N 0263337E	300	Coverage 80 NM* FRA (I): FL175 - FL660
SACOȘU MARE DME	SAC	1072.000MHz (48X)	H24	453346N 0214324E	1300	Coverage 100 NM*
SATU MARE DVOR/DME (5°E/2017)	SAT	108.400 MHz (CH 21X)	H24	474339N 0225338E	500	Coverage 150 NM* FRA (I) FRA (AD): LRBM
SIBIU DVOR/DME (5°E/2010)	SBI	114.000 MHz (CH 87X)	H24	454651N 0240516E	1500	Coverage 150NM DVOR Coverage 100NM DME
SIBIU NDB	SIB	381 KHz	H24	454706N 0240909E		Coverage 100 NM** FRA (I): FL175 - FL660
STOLNICENI DME	STL	1100.000MHz (76X)	H24	473409N 0271521E	800	Coverage 100 NM*
STREJNIC DVOR/DME (5°E/2010)	STJ	113.200 MHz (CH 79X)	H24	445507N 0255837E	600	Coverage 80 NM* FRA (I): FL175 - FL660
STRUNGA DME	STR	1049.000MHz (25X)	H24	470940N 0265637E	1200	Coverage 100 NM*
SUCEAVA DVOR/DME (7°E/2020)	SCV	112.300 MHz (CH 70X)	H24	474020N 0262139E	1300	Coverage 175 NM* FRA (I)
SIRIA DME	SIR	1117.000MHz (93X)	H24	461555N 0213950E	1800	Coverage 100 NM*
TÂRGU JIU VOR/DME (5°E/2019)	TGJ	115.300 MHz (CH 100X)	H24	450339N 0232003E	900	Coverage 150 NM*
TÂRGU MUREȘ NDB	TGM	428 KHz	H24	462649N 0241823E		Coverage 80 NM** FRA (I): FL175 - FL660

ENR 4.4 NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS

Name-code designator	Coordinates	ATS route or other route	Remarks
1	2	3	4
ABATU	443241N 0254029E	STAR, IAC LROP	
ABIDA	460400N 0204345E	STAR LRAR, STAR LRTR	
ABIMO	464917N 0235008E	STAR, IAC LRCL	
ABNEK	445259N 0252455E	SID LROP	
ABOLO	470001N 0271959E	T74, Y33, SID LRIA, IAC LRIA	FRA (A): LRBC FRA (D): LRBC FRA (I)
ABORA	443308N 0262027E	STAR, IAC LRBS	
ABRUT	442701N 0251059E	T285, STAR LRBS	FRA (A): LRBS FRA (I): FL175-FL660 FRA (X): FL105-FL175: ODD
ABTER	461511N 0255030E	NIL	FRA (I)
ADINA	434812N 0303018E	NIL	FRA (E): FL195-FL660: EVEN FRA (X): FL195-FL660: ODD
ADMEC	470751N 0263448E	T4, Y34	FRA (A): LRBC, LRSV FRA (D): LRBC, LRSV FRA (I)
ADUKU	465526N 0220000E	NIL	FRA (I)
ADULI	442719N 0255211E	STAR, IAC LRBS	
ADUXI	455900N 0210407E	STAR LRAR, STAR LRTR	
AGASU	455252N 0214829E	STAR LRAR, STAR LRTR	
AGMEL	464126N 0213416E	M423, Y572	FRA (A): LROD FRA (D): LROD FRA (I)
AGNEP	452700N 0225735E	NIL	FRA (I)
AKLEF	475538N 0252659E	NIL	FRA (E): ODD FRA (X) EVEN
AKUPO	470004N 0242344E	P133, SID/STAR LRCL, STAR LRSB, STAR LRTM	FRA (A): LRCL, LRSB, LRTM FRA (D): LRCL FRA (I): FL175-FL660 FRA (E): FL105-FL175: ODD FRA (X): FL105-FL175: EVEN
ALENO	435809N 0295029E	NIL	FRA (I)
ALOXU	454653N 0242029E	STAR LRSB	FRA (I): FL175-FL660
AMLAV	440943N 0294558E	NIL	FRA (I)
AMODA	443154N 0263004E	STAR LRBS/LROP	
AMSIT	443251N 0263527E	STAR LRBS/LROP	
ANASA	441843N 0223319E	Y88	FRA (D): LRCV FRA (X): EVEN
ANAVU	471539N 0231921E	T90	FRA (A): LRSM FRA (D): LRSM FRA (I): FL175-FL660 FRA (E): FL105-FL175: EVEN FRA (X): FL105-FL175: ODD
ANTAL	464522N 0264345E	T4, STAR LRBC	FRA (I)
APROB	435824N 0250009E	NIL	FRA (I)
APSAM	470535N 0232156E	STAR/IAC LRCL, STAR LRTM	FRA (I): FL175-FL660
APTAN	462315N 0262056E	Z924	FRA (D): LRBC FRA (I)
ARCAZ	463320N 0212726E	M423	FRA (A): LRAR, LRTR FRA (D): LRAR, LRTR FRA (I): FL175-FL660 FRA (E): FL105-FL175: ODD FRA (X): FL105-FL175: EVEN
ARGES	440456N 0264936E	Z946	FRA (I): FL175-FL660
ARMOX	444050N 0262233E	ENTRY/EXIT POINT CTR LROP	
ARNAX	442243N 0254946E	STAR LRBS	
ARPIG	472008N 0271810E	P133, Y34, SID LRIA, IAC LRIA	FRA (A): LRSV FRA (D): LRSV FRA (I)

1	2	3	4
ASECA	453228N 0253229E	IAC LRBV	
ASKUT	462411N 0281416E	NIL	FRA (I)
ASNEL	443212N 0261948E	NIL	FRA (I): FL175-FL660
ASTOD	463740N 0272337E	Z650	FRA (I)
ATSOS	465945N 0225115E	Z941, STAR LRCL, STAR LRTM	FRA (A): LRCL, LRTM FRA (I): FL175-FL660 FRA (X): FL105-FL175: ODD
AXUTA	465517N 0231251E	STAR LRCL, STAR LRTM	FRA (I): FL175-FL660
BABAK	442658N 0254629E	ENTRY/EXIT POINT CTR LRBS	
BACAM	442807N 0232826E	T226, SID LRCV	FRA (I)
BADKA	452239N 0290639E	L130	FRA (D): LRTC FRA (E): ODD FRA (X): EVEN
BADOR	473425N 0220629E	Z921, Z932	FRA (A): LROD FRA (D): LROD FRA (I)
BAGRI	451112N 0294812E	NIL	FRA (E): ODD
BALBI	445418N 0254515E	NIL	FRA (I): FL175-FL660
BAMUD	475432N 0241235E	NIL	FRA (E): ODD FRA (X): EVEN
BAPGU	464727N 0271743E	NIL	FRA (I)
BARID	460832N 0210047E	IAC LRAR	
BARUK	443229N 0283411E	NIL	FRA (I): FL175-FL660
BAVMA	464654N 0220338E	Z942	FRA (I)
BEGAL	443602N 0254619E	STAR LROP	
BEKLU	441748N 0260730E	SID LRBS	
BELMU	471902N 0272111E	P133, Y33, IAC LRIA	
BEPES	452053N 0281920E	NIL	FRA (E): EVEN FRA (X): ODD
BESVA	460031N 0210842E	STAR LRAR, STAR LRTR	
BIBOR	471609N 0250821E	P133	FRA (I)
BILRO	460706N 0241347E	SID LRBS	
BINBI	434306N 0293808E	NIL	FRA (I): FL175-FL660 FRA (E): FL105-FL175: EVEN
BIRLU	440334N 0284509E	STAR LRCK	FRA (I): FL175-FL660
BIVBU	445514N 0241954E	NIL	FRA (I)
BOGVI	444203N 0263808E	STAR LRBS, LROP	
BOKDO	470721N 0233839E	SID LRCL, SID LRTM	FRA (I): FL175-FL660
BRATY	473046N 0262555E	IAC LRSV	
BUCSA	463012N 0262202E	Z650	FRA (I)
BUDOP	464115N 0212948E	Y572	FRA (I)
BUKAN	463154N 0225330E	Y559, Z939	FRA (I)
BUKEL	450440N 0254333E	SID LRBS/LROP	FRA (A): LRBV FRA (D): LRBS, LROP FRA (I): FL175-FL660 FRA (E): FL105-FL175: EVEN
BUKOV	475706N 0255730E	T4, SID LRSV, IAC LRSV	FRA (A): LRSV FRA (D): LRSV FRA (E): ODD FRA (X): EVEN
BUKUR	470713N 0252843E	NIL	FRA (I)
BULEN	434500N 0254900E	NIL	FRA (I): FL175-FL660 FRA (X): FL105-FL175: ODD
BUNIR	444247N 0255039E	STAR LROP	
BUSES	465533N 0280622E	Z924, Z940	FRA (I)
BUSOK	443157N 0263603E	STAR LROP/LRBS	
BUXLE	462750N 0221143E	Z942	FRA (A): LROD FRA (D): LROD FRA (I)
BUZZE	473851N 0234737E	T33, SID/IAC LRBM	FRA (A): LRSM FRA (D): LRSM FRA (I)
CANJE	464138N 0265033E	IAC LRBC	

1	2	3	4
CETUL	444151N 0283737E	L130, SID/IAC LRCK	FRA (A): LRCK, LRCT FRA (D): LRCK, LRCT FRA (I): FL175-FL660 FRA (E): FL105-FL175: ODD FRA (X): FL105-FL175
CONWI	464339N 0223345E	Y559, Y572	FRA (A): LROD FRA (D): LROD FRA (I)
COZMU	460656N 0254542E	Z922	FRA (I)
DANUL	445424N 0282723E	T77, IAC LRCT	FRA (I)
DEGET	462937N 0211602E	NIL	FRA (I): FL175-FL660
DENAK	450008N 0262608E	T74, SID/STAR LRBS/LROP	FRA (A): LRBS / LROP FRA (D): LRBS / LROP FRA (I): FL175-FL660 FRA (E): FL105-FL175: ODD FRA (X): FL105-FL175: EVEN
DENUB	440359N 0292636E	SID/STAR LRCK	FRA (A): LRCK FRA (D): LRCK FRA (I): FL175-FL660 FRA (E): FL105-FL175: ODD FRA (X): FL105-FL175: EVEN
DESUX	445623N 0255005E	SID LRBS, LROP	
DEXIM	444233N 0264514E	STAR LROP	
DEXUD	443225N 0253725E	STAR LROP	
DIDIX	455320N 0210114E	SID/STAR LRTR	FRA (I): FL175-FL660
DIKER	443010N 0254928E	STAR LROP	
DILAS	443322N 0254915E	STAR, IAC LROP	
DILIM	443713N 0265038E	STAR LROP, LRBS	
DINBA	443814N 0283134E	IAC LRCK	
DINRO	434200N 0284830E	SID LRCK	FRA (D): LRCK FRA (I): FL175-FL660
DIPUX	455318N 0215202E	STAR LRAR, STAR LRTR	
DIRAL	443039N 0273315E	Z936, SID/STAR LRCK	FRA (A): LRCK FRA (D): LRCK FRA (I): FL175-FL660 FRA (E): FL105-FL175: EVEN FRA (X): FL105-FL175: ODD
DIRCO	463558N 0271517E	Z650, SID/IAC LRBC	FRA (I)
DIRER	445918N 0212435E	NIL	FRA (X): EVEN
DITAX	452808N 0222014E	SID LRAR, SID LRTR	FRA (D): LRAR, LRTR FRA (I): FL175-FL660 FRA (E): FL105-FL175: ODD
DIVEL	453119N 0211825E	STAR LRAR, LRTR	
DOBOK	472936N 0272810E	NIL	FRA (I)
DOHAC	443515N 0283109E	IAC LRCK	
DOKUD	462807N 0245721E	Z650, SID/STAR LRCL, SID/STAR LRBS, SID/STAR LRTM	FRA (A): LRCL, LRBS, LRTM FRA (D): LRCL, LRBS, LRTM FRA (I): FL175-FL660 FRA (E): FL105-FL175: ODD FRA (X): FL105-FL175: EVEN
DONOX	441105N 0255424E	STAR LROP, LRBS	
DORIM	464137N 0265033E	STAR LRBC	
DOTEV	462327N 0240124E	STAR LRBS, SID LRTM	
DUNAV	450738N 0282855E	Z934, IAC LRCT	FRA (I)
EBCOL	455918N 0254909E	Z922, SID/STAR LRBV	FRA (I)
EBEKU	442645N 0280729E	STAR LRCK	FRA (I): FL175-FL660
EBILO	465123N 0233125E	STAR LRCL, STAR LRTM	FRA (I): FL175-FL660
EDETA	454608N 0245552E	STAR LRCL, STAR LRBS, STAR LRTM	FRA (A): LRCL, LRBS, LRTM FRA (I): FL175-FL660 FRA (X): FL105-FL175: EVEN
EKNAB	454340N 0223003E	NIL	FRA (I): FL175-FL660
EKRAT	462626N 0240819E	SID LRCL, STAR LRTM	
EKSUN	445514N 0261708E	SID LRBS, LROP	FRA (I): FL175-FL660
ELDET	441710N 0234521E	T226, Y88	FRA (I)

1	2	3	4
ELROM	464431N 0230155E	Y572, Z939, SID LRCL, SID LRTM	FRA (D): LRCL, LRTM FRA (I): FL175-FL660 FRA (E): FL105-FL175: EVEN
ELSEK	460755N 0240708E	SID LRSB	
ELTIX	454018N 0251850E	IAC LRBV	
ELVAB	440952N 0250527E	NIL	FRA (I)
EMBIB	455332N 0233814E	STAR LRCL, STAR LRTM	
EMPOS	454728N 0234348E	STAR LRSB	FRA (I): FL175-FL660
ENIMA	450446N 0245409E	NIL	FRA (I)
ENITU	465442N 0233738E	STAR LRCL, STAR LRTM	
ENOSO	462745N 0244541E	STAR LRCL, SID LRTM	
EPCAR	464916N 0264213E	T4	FRA (I)
EPUPO	454948N 0243055E	STAR LRSB	
EPURA	454642N 0243018E	STAR LRCL	
ERBIZ	481039N 0261939E	NIL	FRA (E): ODD FRA (X): EVEN
EROMO	475713N 0235647E	NIL	FRA (E): ODD FRA (X): EVEN
ERUKO	454951N 0220528E	STAR LRAR, STAR LRTR	FRA (I): FL175-FL660
ESUXU	442731N 0262606E	STAR LRBS, LROP	
ETEPA	463140N 0244320E	STAR LRTM	FRA (I): FL175-FL660
ETOGO	444812N 0263949E	SID LRBS, LROP	
ETUXA	444935N 0261757E	SID LRBS, LROP	
EVIKA	453645N 0273050E	T4	FRA (I)
EVNUR	461131N 0210110E	IAC LRAR	
EVRIK	462107N 0221432E	Z939, Z942, Z945	FRA (I)
FABZO	472612N 0232659E	T995, SID/IAC LRBM	FRA (I)
FIKHU	471337N 0215739E	IAC LROD	
FOCSA	455941N 0264123E	T74, Z947	FRA (A): LRBC FRA (D): LRBC FRA (I)
GALMI	440800N 0300132E	NIL	FRA (I)
GANNA	464207N 0220541E	Z942	FRA (I)
GAROC	463728N 0263447E	Z933	FRA (I)
GESBA	455522N 0214724E	NIL	FRA (I): FL175-FL660
GIKUN	444013N 0233811E	Z943	FRA (I)
GIRIL	473001N 0230253E	IAC LRSM	
GITMU	455349N 0211852E	NIL	FRA (I): FL175-FL660
GOMDI	445154N 0255640E	SID LRBS, LROP	
GORER	444651N 0260448E	ENTRY/EXIT POINT CTR LROP	
GOTOB	443555N 0261603E	Otopeni CTR, VFR route	
GOVIN	453842N 0210852E	SID LRAR, SID LRTR	FRA (I): FL175-FL660
GOVOX	453619N 0211823E	STAR LRTR	
GUDIV	443151N 0253838E	STAR LROP	
GUPRO	452719N 0215341E	SID LRAR, SID LRTR	FRA (I): FL175-FL660
GURSA	443026N 0260716E	STAR LROP	
GUXVA	464448N 0270407E	T74, SID/IAC LRBC	FRA (A): LRIA FRA (D): LRIA FRA (I)
HUMOR	473053N 0255235E	P133, T33, SID LRSV, IAC LRSV	FRA (A): LRSV FRA (D): LRSV FRA (I)
IBAVA	460217N 0241503E	STAR LRCL, STAR LRTM	
IBGIR	462639N 0263359E	Z924	FRA (I)
IBINU	455505N 0231644E	STAR LRCL, STAR LRSB, STAR LRTM	FRA (A): LRCL, LRSB, LRTM FRA (I): FL175-FL660 FRA (X): FL105-FL175: ODD
IDARU	443825N 0265854E	Z936, SID/STAR LRBS/LROP	FRA (A): LRBS, LROP FRA (D): LRBS, LROP FRA (I): FL175-FL660 FRA (E): FL105-FL175: ODD FRA (X): FL105-FL175: EVEN

1	2	3	4
IDOMO	434816N 0244850E	NIL	FRA (I)
IFIXA	472025N 0272841E	IAC LRIA	
INBID	464736N 0261234E	Z933	FRA (D): LRBC FRA (I)
INDOR	443945N 0260644E	STAR LROP	
INGOP	452555N 0210859E	SID LRAR, SID LRTR	FRA (I): FL175-FL660
INVED	460928N 0202405E	NIL	FRA (I): FL175-FL660
IPDIS	460941N 0241423E	STAR LRCL, STAR LRTM	
IPRAS	444123N 0262849E	STAR LRBS, LROP	
IPTOL	461728N 0240241E	STAR LRSB, SID LRTM	FRA (I): FL175-FL660
IRDUM	434324N 0292322E	NIL	FRA (I): FL175-FL660
IRLIT	470544N 0231313E	IAC LRCL	
IRLOX	453808N 0241102E	SID LRCL, SID LRBS, SID LRTM	FRA (A): LROP FRA (D): LRCL, LRBS, LRTM FRA (I): FL175-FL660 FRA (E): FL105-FL175: ODD FRA (X): FL105-FL175: EVEN
IRLUP	464631N 0235914E	STAR LRCL, SID LRTM	
IRMAM	451331N 0284323E	T77	FRA (E): ODD
ITVAX	454926N 0242826E	STAR LRCL, STAR LRTM	
ITVUK	442801N 0263303E	STAR LRBS, LROP	
IVDEK	442831N 0264000E	STAR LRBS, LROP	FRA (I): FL175-FL660
IXORI	464313N 0231432E	STAR LRCL	FRA (I): FL175-FL660
IXUBA	463627N 0235835E	SID LRCL, STAR LRTM	FRA (I): FL175-FL660
JIBOU	472929N 0230730E	T90, IAC LRSM	FRA (I)
KARIL	474738N 0222632E	T33, Z948, Z949, IAC LRSM	FRA (A): LRSM FRA (D): LRSM FRA (I)
KEGAD	465508N 0242008E	STAR LRTM	
KENUX	461732N 0264604E	T74, SID/IAC LRBC	FRA (I)
KERLO	471502N 0270000E	Y34	FRA (I)
KODRU	461132N 0280726E	NIL	FRA (I)
KOMAN	435900N 0261300E	L622	FRA (I): FL175-FL660
KONIM	441243N 0284957E	STAR LRCK	FRA (I): FL175-FL660
KOZBO	453606N 0252211E	IAC LRBV	
LAMIT	450614N 0232229E	Z938	FRA (A): LRCV, LROP FRA (D): LRCV FRA (I)
LAPKA	451734N 0263033E	T74	FRA (A): LRBV FRA (D): LRBV FRA (I)
LARMU	471501N 0230809E	Z948, SID/STAR LRCL, SID/STAR LRTM	FRA (A): LRCL, LRTM FRA (D): LRCL, LRTM FRA (I): FL175-FL660 FRA (E): FL105-FL175: EVEN FRA (X): FL105-FL175: ODD
LATCU	465001N 0222256E	Y559	FRA (I)
LEBAT	452211N 0253343E	SID/STAR LRBV	FRA (I)
LELTI	441740N 0232532E	Y88, SID LRCV	FRA (I)
LEMPA	444337N 0282607E	SID LRCK	FRA (D): LRCK FRA (I): FL175-FL660 FRA (E): FL105-FL175: EVEN
LERVU	441146N 0285236E	STAR LRCK	
LESVO	465707N 0274920E	Y32, SID LRIA, IAC LRIA	FRA (I)
LEVTA	443522N 0262435E	STAR, IAC LROP	FRA (I): FL175-FL660
LILGU	443245N 0262240E	ENTRY/EXIT POINT CTR LRBS	
LIVGA	443643N 0262440E	SID LROP	
LOBKI	451041N 0285457E	L130	FRA (I)
LOMOS	435000N 0231500E	NIL	FRA (I): FL175-FL660 FRA (E): FL105-FL175: EVEN
LOVIS	443710N 0264010E	STAR LROP	
LUGEB	434408N 0283004E	NIL	FRA (I): FL175-FL660
LUPUK	442446N 0293646E	NIL	FRA (I)

1	2	3	4
LUROD	443829N 0263243E	STAR LRBS/LROP	
LUSOM	452449N 0212658E	SID LRAR, SID LRTR	FRA (I): FL175-FL660
LUTUP	442610N 0263058E	STAR LRBS	
LUXOT	455113N 0213510E	STAR LRAR, STAR LRTR	
MASEB	443209N 0254530E	STAR LRBS	
MASTE	454726N 0254826E	IAC LRBV	
MAVIT	451424N 0211830E	SID/STAR LRAR, SID/STAR LRTR	FRA (A): LRAR,LRTR,LYBE,LYBT,LYVR FRA (D): LRAR, LRTR FRA (E): FL175-FL660
MEDUD	460759N 0205327E	SID LRAR, SID LRTR	FRA (I): FL175-FL660
MEGIK	471230N 0215140E	NIL	FRA (I)
MEREC	474201N 0230603E	IAC LRBM	
MIKVI	462955N 0260733E	Z650	FRA (A): LRBC FRA (D): LRBC FRA (I)
MIRON	464310N 0270226E	T74, STAR LRBC	FRA (I)
MIVNU	443313N 0281723E	STAR LRCK	FRA (I): FL175-FL660
MIVSA	455420N 0212823E	NIL	FRA (I): FL175-FL660
MOBLU	441146N 0292650E	SID LRCK	FRA (D): LRCK FRA (I): FL175-FL660 FRA (E): FL105-FL175: EVEN
MOBRA	455152N 0244910E	STAR LRCL, STAR LRBS, STAR LRTM	FRA (A): LRCL, LRBS, LRTM FRA (I): FL175-FL660 FRA (X): FL105-FL175: EVEN
MOLID	463623N 0271718E	Z650, STAR LRBC	FRA (I)
MOPUG	460949N 0204229E	SID LRTR, SID LRAR	FRA (D): LRAR, LRTR FRA (I): FL175-FL660
MOSOP	434309N 0293149E	NIL	FRA (I): FL175-FL660 FRA (E): FL105-FL175: EVEN FRA (X): FL105-FL175: ODD
NAMUV	442259N 0280459E	STAR LRCK	
NARKA	471454N 0215136E	Z941, Z942	FRA (I)
NAVOD	434521N 0243335E	T226	FRA (A): LRCV FRA (I): FL175-FL660 FRA (E): FL105-FL175: EVEN
NECCO	441852N 0233726E	IAC LRCV	
NEKUL	453100N 0223512E	STAR LRAR, STAR LRTR	FRA (A): LRAR, LRTR FRA (I): FL175-FL660 FRA (E): FL105-FL175: ODD FRA (X): FL105-FL175: EVEN
NEPOT	455737N 0230517E	NIL	FRA (I)
NERDI	451846N 0234211E	NIL	FRA (I)
NETUL	444143N 0265843E	Z930, SID/STAR LRBS/LROP	FRA (A): LRBS, LROP FRA (D): LRBS, LROP FRA (I): FL175-FL660 FRA (E): FL105-FL175: ODD FRA (X): FL105-FL175: EVEN
NIGAB	443236N 0262936E	SID LRBS	
NIGEV	435841N 0244514E	NIL	FRA (I)
NOPTI	461855N 0215947E	Z939, SID/STAR LRAR, SID/STAR LRTR	FRA (A): LRAR, LRTR FRA (D): LRAR, LRTR FRA (I): FL175-FL660 FRA (E): FL105-FL175: ODD FRA (X): FL105-FL175: EVEN
NULGO	440242N 0234302E	NIL	FRA (I)
NUNTA	470615N 0275130E	NIL	FRA (I)
NURPO	442807N 0291856E	STAR LRCK	FRA (A): LRCK FRA (I): FL175-FL660 FRA (E): FL105-FL175: EVEN FRA (X): FL105-FL175: ODD
OBARA	470153N 0224259E	Z941	FRA (A): LROD FRA (D): LROD FRA (I)
OBCAS	453455N 0255025E	SID/STAR LRBV	FRA (I)

1	2	3	4
OBELA	443244N 0254938E	STAR, IAC LROP	FRA (I): FL175-FL660
OBUDO	443804N 0261112E	Otopeni CTR	
OBUGA	440632N 0260539E	L622, STAR LRBS/LROP	FRA (A): LRBS, LROP FRA (I): FL175-FL660 FRA (X): FL105-FL175: EVEN
OGATA	444846N 0300751E	NIL	FRA (E): EVEN
OGUPI	443632N 0260420E	Otopeni CTR, VFR route	
OKAGO	444749N 0263420E	STAR LRBS, LROP	
OKAXA	464911N 0235637E	SID LRTM	
OKIGO	474118N 0231102E	IAC LRBM	
OKLIV	471618N 0233121E	T995	FRA (A): LRBM FRA (D): LRBM FRA (I): FL175-FL660 FRA (E): FL105-FL175: EVEN FRA (X): FL105-FL175: ODD
OLMEB	472555N 0232707E	T995	FRA (I)
OLMIP	460243N 0222212E	NIL	FRA (I): FL175-FL660
OLNOR	442318N 0261918E	SID LRBS/LROP	
OMISU	454800N 0213612E	IAC LRTR	FRA (I): FL175-FL660
ORBUF	453447N 0252433E	IAC LRBV	
ORSUT	441034N 0260433E	SID LRBS/LROP	
ORTIP	435840N 0251959E	NIL	FRA (I): FL175-FL660
ORVET	442443N 0253926E	STAR LRBS	
ORXIK	470907N 0221443E	Z941	FRA (I)
OSDOR	445835N 0300300E	NIL	FRA (X): EVEN
OSTAL	441641N 0264622E	Z946, STAR LRBS/LROP	FRA (A): LRBS, LROP FRA (I): FL175-FL660 FRA (X): FL105-FL175: EVEN
OSTOV	434700N 0234800E	NIL	FRA (I): FL175-FL660 FRA (X): FL165-FL175: ODD
OTRIX	455257N 0241700E	STAR LRCL, SID LRBS, STAR LRTM	
OVDOT	443220N 0225837E	T139	FRA (A): LRCV FRA (I)
OZZET	441918N 0241037E	IAC LRCV	
PADGU	444643N 0223638E	NIL	FRA (I)
PANZU	440212N 0240813E	T139, T226, IAC LRCV	FRA (I)
PASKA	472003N 0262954E	T4, SID LRSV, IAC LRSV	FRA (I)
PELES	461302N 0270312E	T4	FRA (A): LRBC FRA (D): LRBC FRA (I)
PELUR	451712N 0252918E	NIL	FRA (I)
PEMOK	442153N 0242054E	T285, T899, IAC LRCV, SID LRCV	FRA (A): LROP FRA (I)
PEMUT	474107N 0231253E	IAC LRBM	
PEQIN	463836N 0271338E	Z924	
PETAV	443409N 0262442E	ENTRY/EXIT POINT CTR LROP	
PETOS	442836N 0252715E	STAR LRBS	FRA (I): FL175-FL660
PEVEX	440412N 0282655E	IAC/STAR LRCK	FRA (I): FL175-FL660
PEVIL	472902N 0224838E	IAC LRSM	
PEXAL	444300N 0260529E	SID LROP	FRA (I): FL175-FL660
PIKUV	460330N 0240541E	STAR LRBS	
PILAT	444926N 0280552E	T4, T77, SID/STAR LRCK	FRA (A): LRCK, LRCTC FRA (D): LRCK, LRCTC FRA (I): FL175-FL660 FRA (E): FL105-FL175 FRA (X): FL105-FL175
PINUB	461913N 0241128E	SID LRBS, STAR LRTM	
PIRIG	464932N 0274344E	Y32, Z931	FRA (I)
PITIS	443435N 0283102E	STAR, IAC LRCK	
POGAV	464654N 0281000E	Z650	FRA (A): LRBC FRA (D): LRBC FRA (I)

1	2	3	4
POLUN	441415N 0251324E	Y88, Z944, SID LRBS/LROP	FRA (D): LRBS, LROP FRA (I): FL175-FL660 FRA (E): FL105-FL175: EVEN
PRAOS	474424N 0264129E	IAC LRSV	
RAMIX	461722N 0272019E	Y32	FRA (I)
RAMOD	474954N 0261721E	IAC LRSV	
RARIT	443604N 0262453E	STAR, IAC LROP	
RASAR	443726N 0254443E	ENTRY/EXIT POINT CTR LROP	
RASUB	435844N 0252506E	NIL	FRA (I): FL175-FL660
REBDI	450322N 0282825E	Z935	FRA (I)
REBLA	464536N 0234441E	NIL	FRA (I): FL175-FL660
REDKU	463024N 0263256E	Z650, SID/IAC LRBC	FRA (I)
REPTO	473811N 0240000E	T33	FRA (A): LRBM FRA (D): LRBM FRA (I)
REVDA	434400N 0290836E	STAR LRCK	FRA (A): LRCK FRA (I): FL175-FL660
RIDPA	443719N 0262914E	SID LROP	
RILAS	471944N 0223637E	NIL	FRA (I)
RIPGA	451131N 0275407E	Z935	FRA (D): LRTC FRA (I)
RIRUX	443202N 0260406E	Otopeni CTR, VFR route	
RISUC	455251N 0254224E	IAC LRBV	
RIVKA	474227N 0262959E	IAC LRSV	
RIVOS	443921N 0273917E	Z930, SID/STAR LRCK	FRA (A): LRCK FRA (D): LRCK FRA (I): FL175-FL660 FRA (E): FL105-FL175: EVEN FRA (X): FL105-FL175: ODD
ROMAG	472522N 0222507E	M423, Z932	FRA (A): LROD, LRSM FRA (D): LROD, LRSM FRA (I)
ROMOL	474408N 0250251E	NIL	FRA (E): ODD FRA (X): EVEN
ROMUX	455121N 0203724E	STAR LRAR, STAR LRTR	
RONBU	440306N 0262954E	NIL	FRA (I): FL175-FL660
ROTBI	443005N 0255635E	Otopeni CTR, VFR route	
RUCCU	475149N 0261629E	IAC LRSV	
RUKAT	443835N 0260940E	SID LROP	
RULES	471146N 0220411E	M423, Z941	FRA (I)
RUMUK	480136N 0232036E	M423, T995	FRA (A): LRSM, LRBM FRA (D): LRSM, LRBM FRA (E): ODD FRA (X): EVEN
RUPUG	465433N 0221511E	Y559	FRA (I)
RUSAG	455824N 0241552E	SID LRBS	FRA (I): FL175-FL660
RUTUV	462425N 0240613E	STAR LRSM	FRA (I): FL175-FL660
SALAC	464427N 0264407E	T4, SID/IAC LRBC	FRA (I)
SETCU	462049N 0265843E	IAC LRBC	
SISGU	442210N 0252753E	SID LRBS, LROP	
SOBSA	460253N 0250514E	NIL	FRA (I): FL175-FL660 FRA (E): FL105-FL175: ODD FRA (X): FL105-FL175: EVEN
SODGO	445202N 0225051E	T226	FRA (D): LRCV FRA (I)
SOKRU	445934N 0251949E	SID LRBS, LROP	FRA (D): LRBS, LROP FRA (I): FL175-FL660 FRA (E): FL105-FL175: EVEN
SOMET	474140N 0230939E	T33, IAC LRBM, LRSM	FRA (I)
SOMOV	434200N 0245100E	Z937	FRA (I): FL175-FL660 FRA (E): FL105-FL175: EVEN
SONOB	443123N 0254558E	ENTRY/EXIT POINT CTR LROP	
SORDU	440233N 0252648E	Z937, STAR LRBS/LROP	FRA (A): LRBS, LROP FRA (I): FL175-FL660 FRA (X): FL105-FL175: EVEN

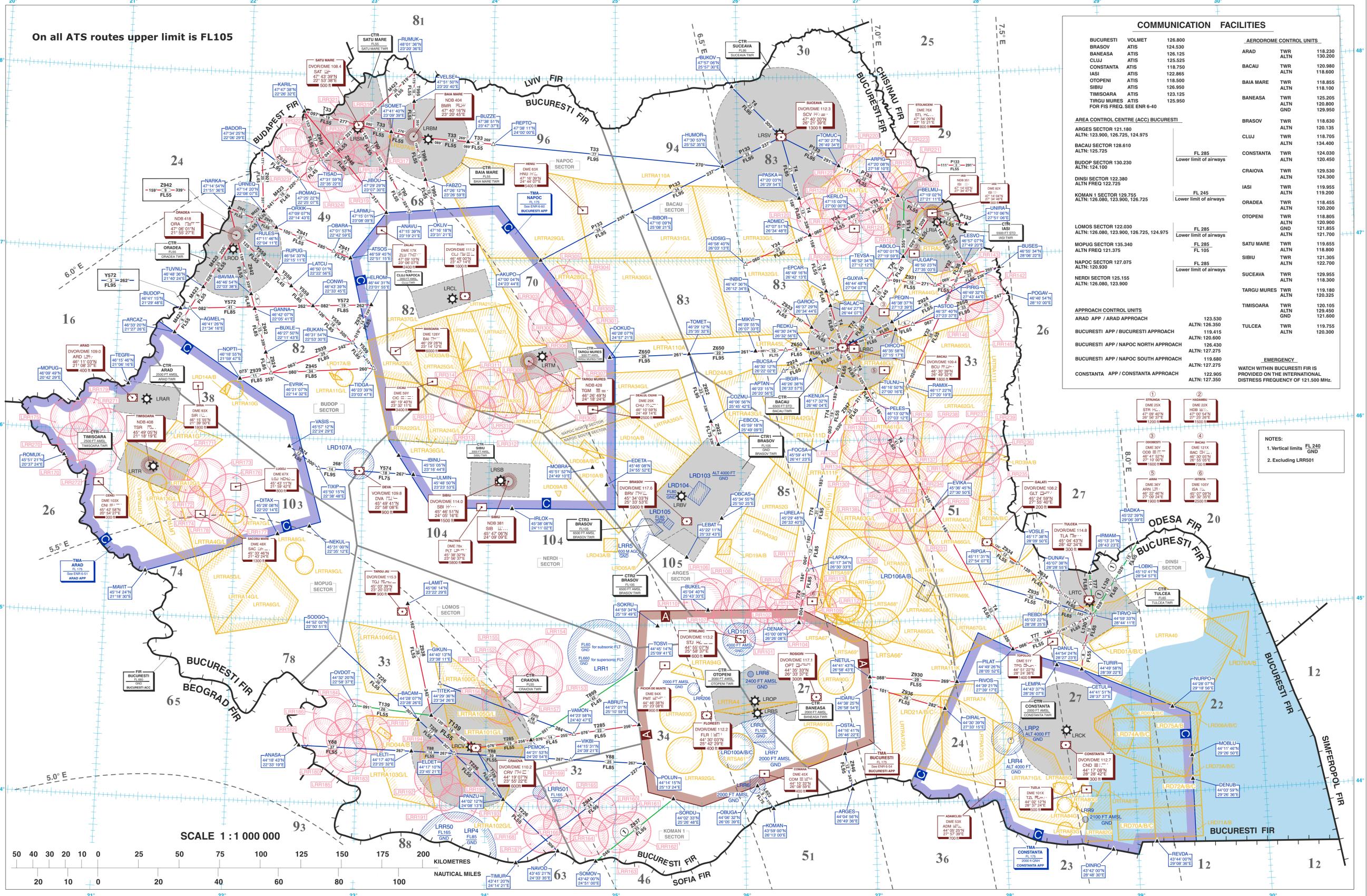
1	2	3	4
SORUR	443446N 0255357E	VFR route	
SOSIL	452105N 0211828E	SID/STAR LRTR	
SUSUR	443647N 0264435E	STAR LROP	
TALAM	440511N 0302619E	NIL	FRA (X): FL195-FL660: ODD
TEGRI	461546N 0210616E	STAR LRAR, STAR LRTR	FRA (A): LRAR, LRTR FRA (I): FL175-FL660
TERTI	450518N 0283952E	IAC LRTC	
TESTU	444506N 0260411E	STAR LROP	
TEVRO	442047N 0253007E	STAR LRBS, LROP	FRA (I): FL175-FL660
TEVSA	465234N 0271212E	T74, Z931	FRA (I)
TIDGA	462339N 0230347E	Y559, Z945	FRA (I): FL175-FL660 FRA (E): FL105-FL175: EVEN FRA (X): FL105-FL175: ODD
TIMUR	434120N 0241421E	Z944	FRA (I): FL175-FL660 FRA (X): FL105-FL175: ODD
TINPU	442141N 0281016E	SID LRCK	
TIPOV	465051N 0235711E	STAR/IAC LRCL	
TIRVO	445933N 0284411E	L130, T77, Z934, Z935	FRA (I)
TISAD	473159N 0223522E	M423, Z949, IAC LRSM	FRA (I)
TITEK	442936N 0233426E	T139, Z938, IAC LRCV, SID LRCV	FRA (I)
TIXIP	455015N 0223848E	Y574	FRA (I): FL175-FL660
TOBAG	442238N 0264210E	STAR LRBS, LROP	
TOMET	462912N 0253532E	Z650, Z922	FRA (A): LRBV FRA (D): LRBV FRA (I)
TOMPU	464511N 0232710E	SID LRTM	
TOMUC	473027N 0264934E	P133, SID, IAC LRSV	FRA (A): LRIA FRA (D): LRIA FRA (I)
TOSVI	444514N 0250941E	T899, STAR LROP	FRA (D): LRCV FRA (I): FL175-FL660 FRA (X): FL105-FL175: ODD
TULNU	461650N 0270016E	T4, Z947, SID/IAC LRBC	
TUMOP	441904N 0261750E	STAR LRBS, LROP	FRA (I): FL175-FL660
TUREC	475754N 0243459E	NIL	FRA (E): ODD FRA (X): EVEN
TUREL	444244N 0301010E	NIL	FRA (X): ODD
TURIR	444958N 0283922E	L130, IAC LRTC	FRA (I)
TUTIX	441424N 0253108E	STAR LRBS, LROP	
TUVEK	445355N 0284014E	IAC LRTC	
TUVNU	464836N 0214024E	M423	FRA (I)
UBAXI	453042N 0221247E	SID LRTR	
UBOGU	444547N 0244006E	NIL	FRA (I)
UCOBE	443503N 0283108E	IAC LRCK	
UDRIB	443447N 0255531E	Otopeni CTR	
UDSIG	465840N 0260313E	Y34	FRA (I)
ULGAP	465023N 0273503E	Z931, Z940	FRA (I)
ULMIN	454850N 0232353E	Y574, SID LRBS	FRA (D): LRBS FRA (I): FL175-FL660 FRA (E): FL105-FL175: EVEN
UNIRA	471006N 0275106E	P133, SID, IAC LRIA	FRA (A): LRIA FRA (D): LRIA FRA (I)
UNUSU	443211N 0261445E	Otopeni CTR, VFR route	
UPAMA	433735N 0252506E	NIL	FRA (I): FL175-FL660 FRA (E): FL105-FL175: EVEN
UPOLI	455306N 0240753E	STAR LRBS	
URELA	452948N 0263340E	T74	FRA (I)
URNEQ	471420N 0220807E	M423, Z921	FRA (I)
USIRO	441430N 0254553E	SID LRBS/LROP	FRA (I): FL175-FL660

1	2	3	4
UTIDI	441510N 0261402E	STAR LRBS, LROP	
UTOKI	444439N 0255153E	SID LRBS, LROP	
UVALU	444239N 0252639E	STAR LROP	FRA (I): FL175-FL660
UXULA	460200N 0241236E	STAR LRCL, STAR LRTM	
VADBI	455454N 0210654E	IAC LRTR	
VADNU	442225N 0285240E	STAR LRCK	FRA (I): FL175-FL660
VAKIS	435108N 0284329E	NIL	FRA (I): FL175-FL660
VAKUP	445436N 0261802E	SID LRBS/LROP, STAR LRBS	
VAMES	472048N 0233340E	NIL	FRA (I): FL175-FL660
VAMON	442358N 0244047E	T285, Z943	FRA (A): LRCV FRA (D): LRCV FRA (I)
VASIS	455712N 0222429E	Y574, STAR LRAR, STAR LRTR	FRA (A): LRAR, LRTR FRA (I): FL175-FL660 FRA (X): FL105-FL175: EVEN
VEDAP	445016N 0254306E	SID LRBS/LROP	
VELIP	444618N 0213200E	NIL	FRA (A): LROP FRA (E): ODD
VELSE	475150N 0232040E	T995, SID/IAC LRBM	FRA (I)
VEVIN	444247N 0263907E	NIL	FRA (I): FL175-FL660
VIBUD	465031N 0235538E	STAR/IAC LRCL	FRA (I): FL175-FL660
VIKBI	441531N 0243921E	Y88	FRA (I)
VILIS	472424N 0273503E	NIL	FRA (I)
VOSLE	451738N 0280950E	Z934	FRA (I)
XANAN	460703N 0241403E	SID LRSB	
XEBUN	454647N 0242615E	STAR LRSB	
YETZI	470134N 0274527E	IAC LRIA	
ZUBOK	460622N 0214212E	SID LRTR	FRA (I): FL175-FL660
ZULOC	451910N 0250000E		FRA (A): LRBV FRA (D): LRBV FRA (I)
ZUPZU	474110N 0231222E	IAC LRBM	

Legend for FRA relevance: (E)=Horizontal Entry point, (X)=Horizontal Exit point, (I)=Intermediate point, (A)=Arrival Connecting point, (D)=Departure Connection point

Table with 2 columns: Identification and Vertical limits. Lists Temporary Reserved Areas (TRA) for various routes like LRTA1G, LRTA2G, etc., with their respective vertical limits.

Table with 2 columns: Identification and Vertical limits. Lists Dangerous Areas (DANGEROUS AREAS) for various routes like LRD01A, LRD01B, etc., with their respective vertical limits.



LEGEND section containing symbols and definitions for EN ROUTE, Terminal Control Area (TMA), Direction of ATS RNAV Route, ATS RNAV Route, Military exercise and training Areas, Prohibited, Restricted and Danger Areas, CTA Sector, and Identification for radio navigation aids (NAVAID).

EN-ROUTE CHART-ICAO
CLASS C ABV FL 105
CLASS G BLW FL 105
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Aerodrom/heliport name Location indicator	Type of traffic permitted to use the aerodrome/heliport			Reference to AD section and remarks
	International - National (INTL-NTL)	IFR-VFR	S=Scheduled NS=Non-scheduled P=Private	
1	2	3	4	5
Aerodromes				
ARAD/Arad LRAR	INTL - NTL	IFR - VFR	S - NS - P	AD 2.1
BACĂU/George Enescu LRBC	(INTL) - NTL	IFR - VFR	S - NS - P	AD 2.2
BAIA MARE/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	P	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
TÂRGU MUREŞ/Mureşeni LRMS	NTL	VFR	NS - P	AD 2.34

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

1	2	3	4	5
Heliports				
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

**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

Aerodrome name Location indicator	Date of initial certification Data certificării inițiale	Certificate validity Valabilitatea certificatului	Remarks Observații
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- Măgherăuș LRMM	12.07.2016	Unlimited	Not published
TÂRGU MUREȘ/Mureșeni LRMS	26.05.2011	Unlimited	AD 2.34
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

Heliport name Location indicator	Date of initial certification Data certificării inițiale	Certificate validity Valabilitatea certificatului	Remarks Observații
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

LRBC AD 2.1 AERODROME LOCATION INDICATOR AND NAME
LRBC - BACĂU / George Enescu

LRBC AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	463119N 0265437E Runway center.
2	Direction and distance from city	5 km South from Bacău
3	Elevation//Reference temperature/ Mean low temperature	608 FT / 30.1°C / -16.0°C
4	Geoid undulation at AD ELEV PSN	109 FT
5	MAG VAR/ Annual rate of change	7°E (2020) / 6.6°E
6	AD operator, address, telephone, telefax, e-mail, AFS, website	Aeroportul Internațional George Enescu Bacău Tel: +40-(0)234-552484 Fax: +40-(0)234-575366 AFS: LRBCRAYD SITA: BCMAPXH e-mail: office@bacauairport.ro dispatch@bacauairport.ro web: www.bacauairport.ro
7	Types of traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	NIL

LRBC AD 2.3 OPERATIONAL HOURS

1	AD Operator	H24
2	Customs and immigration	As AD Operator
3	Health and sanitation	As AD Operator
4	AIS Briefing Office	H24, see GEN 3.1-5
5	ATS Reporting Office (ARO)	H24, see ENR 1.10-2
6	MET Briefing Office	H24
7	ATS	H24
8	Fuelling	As AD Operator
9	Handling	As AD Operator
10	Security	H24
11	De-icing	As AD Operator
12	Remarks	NIL

LRBC AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	1 electric tractor, 1 diesel tractor, 6 dollies, 2 GPU 115V/400Hz/28Vcc, 1 air start unit, 1 self-propelled potable water service, 1 self-propelled lavatory water service, 2 self-propelled conveyor belt vehicles, 1 fork lift, 4 towed passenger stairs one with PRM chair, 2 passenger buses, 2 crew/passenger minibuses, 1 B737/A320 tow bar, 1 pushback tractor for aircraft MTOW < 130T, 1 towed cabin heater.
2	Fuel/Oil types	Jet A1 kerosene / NIL
3	Fuelling facilities/capacity	Jet A1: 2 refueling trucks x 18.000l , storage 100m ³
4	De-icing facilities	2 de-icing units with fluid type I and type II
5	Hangar space for visiting aircraft	NIL
6	Repair facilities for visiting aircraft	On request BOEING 737 & AIRBUS 320 families
7	Remarks	NIL

LRBC AD 2.5 PASSENGER FACILITIES

1	Hotels	In the city.
2	Restaurants	Snack bar on the airport, restaurants in the city.
3	Transportation	City buses at 400m from the terminal, taxis from the terminal.
4	Medical facilities	First aid on the AD, hospitals in the city.
5	Bank and Post Office	ATM in the terminal, Post Office in the city.
6	Tourist Office	In the airport.
7	Remarks	Other facilities: duty free shops, exchange office, rent a car. Large car parking lot next to the terminal.

LRBC AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	Within AD HR: CAT 7.
2	Rescue equipment	Holmatro rescue equipment
3	Capability for removal of disabled aircraft	Cranes AVBL via contractor. Local Action Coordinator: +40-(0)756-208222 - for substitute: +40-(0)756-208228 e-mail: dispatch@bacauairport.ro
4	Remarks	NIL

LRBC AD 2.7 RUNWAY SURFACE CONDITION ASSESSMENT AND REPORTING, AND SNOW PLAN

1	<i>Types of clearing equipment</i>	2 combine equipment with plow and sweeper/blower, 1 snowblower, 1 sprayer for ground deicing fluid.
2	<i>Clearance priorities</i>	1. RWY 16/34 2. TWY D 3. TWY F 4. APRON 5. TWY C
3	<i>Use of material for movement area surface treatment</i>	Runway deicing liquid used for RWY, TWYs and Apron de-icing is based on potassium acetate fluid (KAC).
4	<i>Specially prepared winter runways</i>	NIL
5	<i>Remarks</i>	Information on snow clearance published in NOTAM (SNOWTAM). See also the snow plan in section AD 1.2. Designated authority to co-ordinate information about the current state of progress of snow clearance operations and the conditions of the movement area is the Airport Authority: TEL: +40-(0)234-552 484 FAX: +40-(0)234-575 366

LRBC AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	<i>Apron designation, surface and strength</i>	Surface: Concrete Strength: 56/R/A/W/T																
2	<i>Taxiway designation, width, surface and strength</i>	<table border="1"> <tr> <td></td> <td>TWY A, E</td> <td>TWY B</td> <td>TWY C, D, F</td> </tr> <tr> <td>Width:</td> <td>18 M</td> <td>16 M</td> <td>23 M</td> </tr> <tr> <td>Surface:</td> <td>Concrete</td> <td>Concrete</td> <td>Asphalt</td> </tr> <tr> <td>Strength:</td> <td>17/R/C/W/T</td> <td>17/R/C/W/T</td> <td>67/F/B/W/T</td> </tr> </table>		TWY A, E	TWY B	TWY C, D, F	Width:	18 M	16 M	23 M	Surface:	Concrete	Concrete	Asphalt	Strength:	17/R/C/W/T	17/R/C/W/T	67/F/B/W/T
	TWY A, E	TWY B	TWY C, D, F															
Width:	18 M	16 M	23 M															
Surface:	Concrete	Concrete	Asphalt															
Strength:	17/R/C/W/T	17/R/C/W/T	67/F/B/W/T															
3	<i>ACL location and elevation</i>	NIL																
4	<i>VOR checkpoints</i>	NIL																
5	<i>INS checkpoints</i>	See AD 2.2-22																
6	<i>Remarks</i>	TWY A, B, E for state/military aircraft only.																

LRBC AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	<i>Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands</i>	Aircraft stand ID signs: 01L, 01, 01R, 02, 03, 04, 05, 06. TWY guide lines: provided for TWY A, B, C, D, E, F. Visual docking guidance system of aircraft stands: NIL. Visual parking guidance system of aircraft stands: aircraft stand markings and aircraft stand maneuvering guidance lights.
2	<i>RWY and TWY markings and LGT</i>	<p>RWY:</p> <ul style="list-style-type: none"> - markings: designation, THR, TDZ, aiming point, centre line, edge lines. - lights: THR, centre line, TDZ, edge, END. <p>TWY A, B:</p> <ul style="list-style-type: none"> - markings: centre line, enhanced centre line, edge lines, holding position, mandatory instructions markings, information markings. - lights: edge, guard lights. <p>TWY C, D:</p> <ul style="list-style-type: none"> - markings: centre line, edge line, holding position, mandatory instructions markings. - lights: centre line, edge, guard lights. <p>TWY E:</p> <ul style="list-style-type: none"> - markings: centre line, edge line, information markings. - lights: edge. <p>TWY F:</p> <ul style="list-style-type: none"> - markings: centre line, edge line on West side. - lights: centre line, edge on West side.
3	<i>Stop bars</i>	TWY A, B, C, D: Stop bars (permanently lighted red) and runway guard lights at holding position.
4	<i>Other runway protection measures</i>	Mandatory instruction signs on TWY A, B, C, D.
5	<i>Remarks</i>	TURN PAD END 16 - markings: centre line, edge line. - lights: centre line, edge.



<i>In Area 3</i>					
<i>OBST ID/ Designation</i>	<i>OBST type</i>	<i>OBST position</i>	<i>ELEV/HGT</i>	<i>Markings/ Type, colour</i>	<i>Remarks</i>
<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
LRBC 2191	POLE	463153.5N 0265439.3E	645.4/43.5 FT	NIL/LGTD R	Electronic form of obstacle data sets for Area 3 are available (see GEN 3.1.6)
LRBC 2192	POLE	463154.9N 0265437.5E	676.8/74.0 FT	NIL	
LRBC 2193	POLE	463040.3N 0265455.3E	589.6/1.7 FT	NIL/LGTD R	
LRBC 2194	POLE	463041.1N 0265455.2E	589.2/1.7 FT	NIL/LGTD R	
LRBC 2200	POLE	463202.3N 0265432.6E	637.6/33.3 FT	NIL/LGTD R	
LRBC 2214	POLE	463140.4N 0265434.0E	603.3/2.0 FT	NIL/LGTD R	
LRBC 2215	POLE	463139.1N 0265434.5E	603.4/2.2 FT	NIL/LGTD R	
LRBC 2216	POLE	463157.9N 0265427.1E	606.8/2.1 FT	NIL/LGTD R	
LRBC 2217	POLE	463159.2N 0265426.6E	607.8/2.0 FT	NIL/LGTD R	
LRBC 2318	BUILDING	463155.6N 0265437.7E	621.2/18.0 FT	NIL	
LRBC 2319	BUILDING	463155.7N 0265438.4E	615.8/12.6 FT	NIL	
LRBC 2320	BUILDING	463156.5N 0265437.8E	628.3/24.6 FT	NIL	
LRBC 2324	BUILDING	463202.1N 0265431.3E	636.4/32.0 FT	NIL/LGTD R	
LRBC 2422	ANTENNA	463155.5N 0265438.5E	675.9/72.7 FT	NIL/LGTD R	
LRBC 2440	SIGN	463149.6N 0265432.1E	603.9/3.3 FT	NIL/LGTD R	
LRBC 2441	SIGN	463150.4N 0265434.2E	603.8/3.0 FT	NIL/LGTD R	
LRBC 2442	SIGN	463157.1N 0265429.0E	605.0/2.9 FT	NIL/LGTD R	
LRBC 2443	SIGN	463159.4N 0265426.5E	609.0/3.6 FT	NIL/LGTD R	
LRBC 2444	SIGN	463159.4N 0265426.6E	609.0/3.6 FT	NIL/LGTD R	
LRBC 2445	SIGN	463157.7N 0265427.9E	607.1/3.0 FT	NIL/LGTD R	
LRBC 2446	SIGN	463157.6N 0265427.3E	608.0/3.7 FT	NIL/LGTD R	
LRBC 2447	SIGN	463157.6N 0265427.2E	608.0/3.7 FT	NIL/LGTD R	
LRBC 2448	SIGN	463201.2N 0265434.7E	619.7/16.4 FT	NIL/LGTD R	
LRBC 2449	SIGN	463158.3N 0265435.8E	620.8/16.7 FT	NIL/LGTD R	
LRBC 2450	SIGN	463156.9N 0265437.2E	620.1/16.4 FT	NIL/LGTD R	
LRBC 2451	SIGN	463155.3N 0265436.9E	619.5/16.4 FT	NIL/LGTD R	
LRBC 2452	SIGN	463153.9N 0265437.6E	619.5/16.4 FT	NIL/LGTD R	
LRBC 2453	SIGN	463139.7N 0265438.1E	603.3/3.0 FT	NIL/LGTD R	
LRBC 2454	SIGN	463139.6N 0265436.9E	604.4/3.6 FT	NIL/LGTD R	
LRBC 2455	SIGN	463138.9N 0265434.6E	604.9/3.7 FT	NIL/LGTD R	
LRBC 2456	SIGN	463138.9N 0265434.6E	604.9/3.6 FT	NIL/LGTD R	
LRBC 2457	SIGN	463140.7N 0265433.9E	605.0/3.7 FT	NIL/LGTD R	
LRBC 2458	SIGN	463140.7N 0265433.9E	605.1/3.7 FT	NIL/LGTD R	
LRBC 2459	SIGN	463200.1N 0265435.2E	620.0/16.3 FT	NIL/LGTD R	
LRBC 2460	SIGN	463159.7N 0265435.4E	620.0/16.4 FT	NIL/LGTD R	
LRBC 2461	SIGN	463041.5N 0265455.3E	589.9/3.0 FT	NIL/LGTD R	
LRBC 2466	SIGN	463044.4N 0265451.9E	593.5/3.7 FT	NIL/LGTD R	
LRBC 2467	SIGN	463056.4N 0265447.1E	594.7/3.6 FT	NIL/LGTD R	
LRBC 2468	SIGN	463059.8N 0265447.0E	594.4/3.0 FT	NIL/LGTD R	
LRBC 2473	SIGN	463101.0N 0265445.4E	594.5/3.6 FT	NIL/LGTD R	
LRBC 2474	SIGN	463136.6N 0265431.4E	605.2/3.5 FT	NIL/LGTD R	
LRBC 2475	SIGN	463155.5N 0265423.9E	609.6/3.6 FT	NIL/LGTD R	
LRBC 2476	SIGN	463141.1N 0265429.6E	606.6/3.6 FT	NIL/LGTD R	
LRBC 2477	NAVAID	463048.8N 0265445.3E	593.3/2.5 FT	NIL/LGTD R	
LRBC 2478	NAVAID	463048.8N 0265445.7E	593.3/2.5 FT	NIL/LGTD R	
LRBC 2479	NAVAID	463048.9N 0265446.1E	593.3/2.5 FT	NIL/LGTD R	
LRBC 2480	NAVAID	463049.0N 0265446.6E	593.3/2.5 FT	NIL/LGTD R	
LRBC 2481	NAVAID	463149.3N 0265427.4E	606.7/2.0 FT	NIL/LGTD R	
LRBC 2482	NAVAID	463149.2N 0265427.0E	606.7/2.0 FT	NIL/LGTD R	
LRBC 2483	NAVAID	463149.2N 0265426.6E	606.7/2.0 FT	NIL/LGTD R	
LRBC 2484	NAVAID	463149.4N 0265427.8E	606.7/2.0 FT	NIL/LGTD R	
LRBC 2485	POLE	463154.7N 0265437.5E	693.5/90.7 FT	NIL	
LRBC 2486	POLE	463155.6N 0265438.6E	702.2/99.0 FT	NIL	
LRBC 2487	POLE	463157.1N 0265437.6E	643.3/39.6 FT	NIL	
LRBC 2498	TANK	463155.9N 0265438.0E	620.9/17.8 FT	NIL	
LRBC 2499	TANK	463156.0N 0265438.4E	617.5/14.3 FT	NIL	
LRBC 2509	POLE	463200.5N 0265435.0E	673.0/69.4 FT	MARKED/LGTD R	
LRBC 2510	POLE	463159.1N 0265435.9E	630.0/27.2 FT	NIL	
LRBC 2511	POLE	463159.3N 0265436.9E	628.5/26.0 FT	NIL	
LRBC 2512	POLE	463158.9N 0265437.1E	628.5/25.9 FT	NIL	
LRBC 2513	POLE	463158.2N 0265437.3E	628.7/26.0 FT	NIL	
LRBC 2514	POLE	463158.0N 0265436.6E	630.2/27.4 FT	NIL	

a	b	c	d	e	f
LRBC_2515	POLE	463158.8N 0265436.3E	630.4/27.7 FT	NIL	Electronic form of obstacle data sets for Area 3 are available (see GEN 3.1.6)
LRBC_2516	POLE	463158.3N 0265435.9E	672.5/68.6 FT	MARKED/LGTD R	
LRBC_2517	POLE	463156.1N 0265436.7E	672.1/68.7 FT	MARKED/LGTD R	
LRBC_2518	POLE	463153.9N 0265437.6E	665.8/62.6 FT	MARKED/LGTD R	
LRBC_2521	CONTROL_TOWER	463154.7N 0265437.8E	673.5/70.7 FT	NIL/LGTD R	

LRBC AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	BACĂU
2	Hours of service MET Office outside hours	H24 -
3	Office responsible for TAF preparation Periods of validity Interval of issuance	LRMOM 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: +40-(0)234-585180 Fax: +40-(0)234-585180
9	ATS units provided with information	BACAU TWR
10	Additional information (limitation of service, etc.)	NIL

LRBC 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	THR elevation and highest elevation of	Slope of RWY-SWY	
				RWY end coord THR geoid undulation	TDZ of precision APP RWY		
1	2	3	4	5	6	7	
16	164.82°	2500 x 45	66/F/B/W/T Asphalt	463157.93N 0265421.29E 463039.79N 0265451.99E GUND 108.9 FT	THR 607.7 FT TDZ 606.7 FT	-0.19% (556M) 0.20% (123 M) -0.40% (417 M) -0.20% (55 M) 0.22% (654 M) 0.30% (132 M) 0.12 % (96M) 0.30 % (89 M) -0.19 % (68 M) 0.00% (12 M) -0.20 % (298 M)	
34	344.83°	2500 x 45	66/F/B/W/T Asphalt	463039.79N 0265451.99E 463157.93N 0265421.29E GUND 108.9 FT	THR 589.9 FT TDZ 594.0 FT	0.20 % (298 M) -0.00 % (12 M) 0.19 % (68 M) -0.3 % (89 M) -0.12 % (96 M) 0.30 % (132 M) 0.22 % (654 M) 0.20 % (55 M) 0.40 % (417 M) -0.20 % (123 M) 0.19 % (556 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	NIL	2620 x 300	240 x 150	NIL	Yes	RWY 16 turn pad Location: RWY 16 END Surface: Asphalt Dimensions:133Mx78M Strength: 67/F/B/W/T	
NIL	NIL	2620 x 300	240 x 150	NIL	Yes	NIL	

LRBC AD 2.13 DECLARED DISTANCES

<i>RWY designator</i>	<i>TORA (M)</i>	<i>TODA (M)</i>	<i>ASDA (M)</i>	<i>LDA (M)</i>	<i>Remarks</i>
1	2	3	4	5	6
16	2500	2500	2500	2500	NIL
34	2500	2500	2500	2500	NIL

LRBC AD 2.14 APPROACH AND RWY LIGHTING

<i>RWY Designator</i>	<i>APCH LGT type LEN INTST</i>	<i>THR LGT colour WBAR</i>	<i>VASIS (MEHT) PAPI</i>	<i>TDZ, LGT LEN</i>	<i>RWY Centre Line LGT Length, spacing, colour, INTST</i>	<i>RWY edge LGT LEN, spacing, colour, INTST</i>	<i>RWY End LGT colour WBAR</i>	<i>SWY LGT LEN (M) colour</i>	<i>Remarks</i>
1	2	3	4	5	6	7	8	9	10
16	ALSF-2 CAT II 900M LIH	Green Yes	PAPI 3° (53FT)	900M, 30M, White	1600M, 15M, White, LIH 600M, 15M, Red/White, LIH 300M, 15M, Red, LIH	1900M, 60M, White, LIH 600M, 60M, Yellow, LIH	Red LIH	NIL	RWY 16/34, LED lights used in the full length of the ALS.
34	ALSF-2 CAT II 900M LIH	Green Yes	PAPI 3° (50FT)	900M, 30M, White	1600M, 15M, White, LIH 600M, 15M, Red/White, LIH 300M, 15M, Red, LIH	1900M, 60M, White, LIH 600M, 60M, Yellow, LIH	Red LIH	NIL	

LRBC 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, E: edge TWY C, D, F: centre line, edge TWY F: edge West only
4	<i>Secondary power supply/switch-over time</i>	Secondary power supply to all lighting on the AD, switch-over time below 1 sec.
5	<i>Remarks</i>	NIL

LRBC 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>	RWY 34/16 to be used.

LRBC AD 2.17 ATS AIRSPACE

1	<i>Designation and lateral limits</i>	BACĂU CTR A circle, radius 15NM centred at 463119N 0265437E(ARP)
2	<i>Vertical limits</i>	SFC to 6500 FT STD
3	<i>Airspace classification</i>	C
4	<i>ATS unit call sign Language(s)</i>	Bacău Tower English, Romanian
5	<i>Transition altitude</i>	5000 FT AMSL
6	<i>Hours of applicability</i>	As ATS
7	<i>Remarks</i>	NIL

LRBC 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
TWR	Bacău Tower	120.980 118.600 MHz ALTN	NIL	NIL	H24	Exempted 8.33 kHz State aircraft.
APP	Bacău Tower	121.500 MHz EMERG 120.980 118.600 MHz ALTN	NIL	NIL	H24	Procedural service Exempted 8.33 kHz State aircraft.

LRBC 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 operatio n	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
DVOR/DME (7°E/2020)	BCU	109.400 MHz CH 31X	H24	463039.3N 0264932.0E	1800 FT	NIL	Coverage 175 NM (assumed)
LOC 34 (7°E/2020) ILS CAT II (II.T.3)	IBC	110.700 MHz	H24	463207.5N 0265417.6E	-	NIL	Front course angle 4.36°.
GP 34	-	330.200 MHz	H24	463048.3N 0265442.8E	-	NIL	GP Angle 3° ILS RDH 54 FT
DME 34	IBC	- CH 44X	H24	463048.4N 0265442.5E	700 FT	NIL	NIL
NDB(LM)	B	520 KHZ	H24	463005.2N 0265505.6E	-	NIL	158°MAG/0.60NM from THR 34
DME	BAC	1145.000 MHz CH 121X	H24	463005.4N 0265505.2E	700 FT	NIL	117.4 MHz Ghost frequency Coverage 100 NM** Unusable in sector 210°-290°
GPS NPA	-	1575.420 MHz	H24	-	-	NIL	Transmitting antennas are satellite based. Maintained by the U.S. Department of Defense.
EGNOS LPV	-	1575.420 MHz	H24	-	-	NIL	Transmitting antennas are satellite based. Maintained by the European Satellite Services Provider – ESSP.

LRBC AD 2.20 LOCAL AERODROME REGULATIONS

1. AIRPORT REGULATIONS / REGLEMENTĂRI AEROPORT

1.1 Taxiing to and from stands

- Taxiing to and from stands shall be in accordance with the standard routes published in LRBC AD 2.20 Local Aerodrome Regulations.
- FOLLOW ME vehicle assistance, may be requested by the pilot via TWR.
- Entry to the stand for aircraft shall be made with guidance by the ground dispatcher;

1.1 Rulajul la și de la standuri

- Rulajul la și de la standuri se efectuează conform rutelor standard publicate la LRBC AD 2.20 Local Aerodrome Regulations.
- Asistența vehiculului „FOLLOW ME” poate fi solicitată de pilot prin TWR.
- Intrarea la stand se va face cu dirijare de către dispecerul de sol;

- d. Upon arrival, helicopters will land on the runway and run on the ground / air according to standard runways. From the entrance on TWY F, the commander of the aircraft follows the markings to the point where he sees the ground dispatcher, following his signals until he stop.
- e. If the pilot of a aircraft, operating on TWY F, does not have the ground dispatcher in sight, near the parking position communicated by TWR, he stops the aircraft and requests ATC, his presence.
- f. The starting of the engines will be performed at the signals of the ground dispatcher only.
- g. For aircraft with the letter code "A" or "B": exit from the stand without "push-back" if possible from the point of view of the maneuvering space, is performed only under the guidance of the ground dispatcher.
- h. For aircraft with the code letters "C" and "D": exit from the stand is performed only with push-back or with its own engines if the push-back equipment is not operational and there is maneuvering space.
- i. The helicopters, for departure, taxi on the ground /air, following the marking, from the parking position to the runway.
- 1.2 Helicopter parking area
- a. Helicopters will be parked on the platform in a marked / unmarked position with the guidance of the ground dispatcher.
- b. Repositioning of helicopters on the platform is permitted with air / ground taxiing in compliance with the ground dispatcher's signals.
- 1.3 Taxi - limitations
- a. For aircraft with code letters C and D, after landing in direction 16, turning is permitted only with the use of the turnpad.
- b. Military transport aircrafts which after landing on direction 34, require entry on TWY A and B will taxi on the following routes:
- RWY - TWY C - TWY F - TWY D - RWY
- RWY - TWY D - TWY F - TWY C - RWY
- c. Military transport aircraft requesting entry to the runway for take-off from TWY A and B, on direction 16, will taxi on the following route:
- TWY A or B - RWY - TWY C - TWY F - TWY D - RWY
- d. When stands are not available, TWY C is designated as a waiting area for incoming aircraft.
- e. In order to avoid the effect of the jet blast on the circulation of vehicles and aircraft, the taxi for the departure from the stands, will be performed with the engines in "Idle" mode.
- 1.4 Use of the aerodrome by aircraft exceeding the certified design characteristics of the aerodrome:
- a. On request, it is allowed to operate aircraft A 330-200, after obtaining the approval of the aerodrome operator;
- b. The request will be sent to dispatch@bacauairport.ro, at least 15 days before the flight;
- c. Crews operating aircraft must pay attention to the free wheel height above the threshold when following the PAPI signal;
- d. When landing on heading 34/16, THE exit from the runway will be on TWY D;
- e. When landing on heading 16 or take-off on heading 34, on the 180 degree turn on the turn pad at the end of the runway, the aircraft will initiate the turn to align with the runway before the mark so that the "aircraft nose" is aligned with the mark instead of jamb.
- f. Exit from the parking position and entry to the runway will be on TWY D.
- d. Pentru sosire, elicopterele vor ateriza pe pistă și vor rula la sol/aerian conform rutelor standard de rulare. De la intrarea pe TWY F comandantul aeronavei urmează marcajele până la punctul în care are la vedere dispecerul de sol, urmând semnalele acestuia până la oprire.
- e. În cazul în care pilotul unei aeronave, aflată în rula pe TWY F, nu are la vedere dispecerul de sol, în dreptul poziției de parcare comunicate de TWR, oprește aeronava și solicită ATC, prezența acestuia.
- f. Pornirea motoarelor se va executa la semnalele dispecerului de sol.
- g. Pentru aeronave cu litera de cod „A” sau „B”: ieșirea din stand fără „push-back” dacă este posibil din punct de vedere al spațiului de manevră, se efectuează numai sub dirijarea dispecerului de sol.
- h. Pentru aeronave cu litera de cod „C” și „D”: ieșirea din stand se efectuează numai cu „push-back” sau cu propriile motoare dacă echipamentul „push-back” nu este operațional și există spațiu de manevră.
- i. Elicopterele, pentru plecare, rulează la sol/aerian, urmând marcajul, de la poziția de parcare până la pistă.
- 1.2 Zona de parcare pentru elicoptere
- a. Elicopterele vor fi parcate pe platformă pe o poziție marcată/nemarcată la semnalele dispecerului de sol.
- b. Repoziționarea elicopterelor pe platformă este permisă cu rulaj aerian/la sol cu respectarea semnalelor dispecerului de sol.
- 1.3 Rulare - limitări
- a. Pentru aeronavele cu litera de cod C și D, după aterizarea pe direcția 16, întoarcerea este permisă doar cu folosirea buzunarului de întoarcere.
- b. Aeronavele militare de transport care după aterizarea pe direcția 34, solicită intrarea pe TWY A și B se vor deplasa pe următoarele trasee:
- RWY - TWY C - TWY F - TWY D - RWY
- RWY - TWY D - TWY F - TWY C - RWY
- c. Aeronavele militare de transport care solicită intrarea la pista pentru decolare de pe TWY A și B, pe direcția 16, se vor deplasa pe următorul traseu:
- TWY A sau B - RWY - TWY C - TWY F - TWY D - RWY
- d. Când standurile nu sunt disponibile, TWY C este desemnată ca zonă de așteptare pentru aeronavele care sosesc.
- e. Pentru evitarea efectului suflului motoarelor asupra circulației autovehiculelor și aeronavelor, rulajul pentru plecarea de la standuri, se va efectua cu motoarele în regim „Idle”.
- 1.4 Utilizarea aerodromului de către aeronave care depășesc caracteristicile de proiectare certificate ale aerodromului:
- a. La cerere, se permite operarea aeronavelor A 330-200, după obținerea aprobării operatorului de aerodrom;
- b. Solicitarea va fi transmisă pe adresa dispatch@bacauairport.ro, cu minim 15 zile înaintea zborului;
- c. Echipajele trebuie să acorde atenție înalțimii libere la roata deasupra pragului când urmează semnalul PAPI;
- d. La aterizarea pe direcția 34/16, ieșirea de pe pistă se va efectua pe TWY D;
- e. La aterizarea pe direcția 16 sau la alinierea pentru decolare pe direcția 34, la virajul de 180 de grade în buzunarul din capătul pistei, aeronava va iniția virajul de aliniere cu pista înainte de marcaj, astfel încât "aircraft nose" să fie aliniat cu marcajul în loc de jamba.
- f. Ieșirea din poziția de parcare și intrarea la pistă se va efectua pe TWY D.

2. STANDARD TAXI ROUTES / RUTELE STANDARD DE RULARE

The following taxi routes are available for taxiing on LRBC. Următoarele rute de rulare sunt disponibile pe LRBC.

2.1 ARRIVAL INFORMATION/ INFORMAȚII LA SOSIRE

	Taxiways to be followed / Traseu de urmat			STD route	Remarks / Remarci	LVO	
ARR on RWY 16	TO	APRON	On	TWY D, F	ARR1	-	Used for LVP
				TWY C, F	ARR2	-	Used for LVP
ARR on RWY 34	TO	APRON	On	TWY D, F	ARR1	-	Used for LVP
				TWY C, F	ARR2	-	Used for LVP

2.2 DEPARTURE INFORMATION/INFORMAȚII LA PLECARE

	Taxiways to be followed / Traseu de urmat			STD route	Remarks / Remarci	LVO	
DEP from APRON	TO	RWY 16	On	TWY F, D	DEP1	-	Used for LVP
DEP from APRON	TO	RWY 34	On	TWY F, D	DEP1	-	Used for LVP
				TWY F, C	DEP2	-	Used for LVP

LRBC AD 2.21 NOISE ABATEMENT PROCEDURES

See AD 1.1-3

LRBC AD 2.22 FLIGHT PROCEDURES**1. LOW VISIBILITY PROCEDURES / PROCEDURI ÎN CONDIȚII DE VIZIBILITATE REDUSĂ****1.1 Description of facilities**

- (a) Runway 16 is equipped with ILS/DME with the characteristics specified at LRBC AD 2.19 RADIO NAVIGATION AND LANDING AIDS and 3 transmitters (threshold, middle and end)
- (b) Runway 34 is equipped with ILS/DME with the characteristics specified at LRBC AD 2.19 RADIO NAVIGATION AND LANDING AIDS and 3 transmitters (threshold, middle and end)

1.2 Criteria for the initiation and termination of LVP

- (a) Approach and landing
 - (1) The preparation phase will be triggered when in meteorological messages the RVR value is 800m or less, or, in the absence of RVR, the horizontal visibility value is 1500m or less, or the base of the ceiling/vertical visibility value is 150m (500ft) or less.
 - (2) The operational phase will be triggered only when in meteorological messages the RVR is 550m or less, or, in the absence of RVR, the horizontal visibility value is 800m or less, or the base of the ceiling/vertical visibility value is 60m (150ft) or less.
 - (3) Procedures in low visibility conditions will be terminated when in meteorological messages, the RVR value is 800m or more, or, in the absence of RVR, the horizontal visibility value is 1500 m or more, and the base of the ceiling/vertical visibility value is 300m (90ft) or more.
- (b) Take-off
 - (1) The triggering of the LVP shall be requested at least 30 minutes prior to EOBT/CTOT, to allow for appropriate preparations.

1.3 Ground marking and lighting according to LRBC AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS**1.1 Descrierea facilităților**

- (a) Pista 16 este echipată cu ILS/DME cu caracteristicile precizate la LRBC AD 2.19 RADIO NAVIGATION AND LANDING AIDS și 3 transmisiometre (prag, mijloc și end)
- (b) Pista 34 este echipată cu ILS/DME cu caracteristicile precizate la LRBC AD 2.19 RADIO NAVIGATION AND LANDING AIDS și 3 transmisiometre (prag, mijloc și end)

1.2 Criterii pentru inițierea și terminarea LVP

- (a) Apropierea și aterizarea
 - (1) Faza de pregătire va fi declanșată atunci când în mesajele meteorologice RVR are valoarea de 800m sau mai puțin, sau dacă RVR este indisponibil, vizibilitatea orizontală are valoarea de 1500m sau mai puțin, sau plafonul norilor/vizibilitatea verticală are valoarea de 150m (500ft) sau mai puțin.
 - (2) Faza operațională a LVP se declanșează doar atunci când în mesajele meteorologice RVR are valoarea de 550 m sau mai puțin, sau dacă RVR este indisponibil, vizibilitatea orizontală are valoarea de 800 m sau mai puțin, sau plafonul norilor/vizibilitatea verticală are valoarea de 60m (200ft) sau mai puțin.
 - (3) Procedurile în condiții de vizibilitate redusă vor fi încheiate atunci când în mesajele meteorologice, RVR are valoarea de 800m sau mai mult, sau, dacă RVR este indisponibil, vizibilitatea orizontală are valoarea de 1500m sau mai mult, și plafonul norilor/vizibilitatea verticală are valoarea de 300m (90ft) sau mai mult.
- (b) Decolarea
 - (1) Declanșarea LVP, va trebui solicitată cu minim 30 de minute înainte de EOBT/CTOT, pentru a permite pregătirile corespunzătoare.

1.3 Marcaj și balizaj conform LRBC AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS



1.4 Remarks

- (a) Details of runway exits
(1) Pilots shall report "Runway Clear" only after the aircraft has passed the green/yellow light coded segment of the C and D taxiway axis.
- (b) Restrictions on ground movement
(1) During the LVP operational phase, only one aircraft will be authorized to taxi on the maneuvering area of "George Enescu" Bacău International Airport
(2) After obtaining taxi clearance, the aircraft shall enter the taxiway only when the green axial lights are on.
- (c) Simulated CAT II Approaches
(1) Before performing a LVP approach simulation, the pilot is obliged to submit a request to ATCO TWR Bacău.

1.4 Remarci

- (a) Detalii privind iesirea de la pista
(1) Piloții vor raporta "Pista liberă" numai după ce aeronava a depășit segmentul codat cu lumini verde/alben al axului căilor de rulare C și D.
- (b) Restricții privind mișcarea la sol
(1) Pe timpul fazei operaționale LVP, pe suprafața de manevră a Aeroportului Internațional „George Enescu” Bacău va fi autorizat rulajul unei singure aeronave
(2) După obținerea autorizării de rulare, aeronava va intra pe calea de rulare doar atunci când luminile verzi axiale sunt aprinse.
- (c) Apropieri CAT II în condiții LVP simulate
(1) Înainte de efectuarea unei simulări de apropiere LVP, pilotul este obligat să transmită o solicitare către CTAO TWR Bacău.

LRBC AD 2.23 ADDITIONAL INFORMATION

1. Warning for bird hazard

There may be concentrations of birds on or near "George Enescu" Bacău International Airport.

The feeding areas are delimited by the city's landfill and the minor riverbed of the Bistrița River in its vicinity. The agricultural area is used by birds especially in spring and autumn when agricultural work is carried out exposing seeds and small animals. The directions of movement of the birds and the maximum heights reached are represented on chart AD 2.2-46. Pilots are asked to be careful when taking off and while approaching for landing.

2. Removal of disabled aircraft

a) Bacău "George Enescu" International Airport does not have equipments of removal of the accidental blocked aircrafts in movement surface and adjacent safety strip.

b) Aircraft operators are responsible for removing accidentally immobilized aircraft on the moving surface and the adjacent safety strip.

c) Bacău "George Enescu" International Airport can provide airline operators with contact details of companies owning equipment and machinery capable of removing accidentally fixed aircraft.

1. Avertizare pentru pericol de păsări

Pot exista concentrații de păsări pe sau în apropierea Aeroportului Internațional „George Enescu” Bacău.

Zonele de hrănire sunt delimitate de groapa de gunoi a orașului și albia minoră a râului Bistrița din vecinătatea acesteia. Zona agricolă este folosită de păsări în special primăvara și toamna când se efectuează lucrări agricole care expun semințe și animale mici. Direcțiile de deplasare ale păsărilor și înălțimile maxime atinse sunt reprezentate pe harta AD 2.2-46. Piloții sunt rugați să fie precauți la decolare și în timp ce se apropie pentru aterizare.

2. Îndepărtarea aeronavelor imobilizate

a) Aeroportul Internațional "George Enescu" Bacău nu dispune de echipamente și utilaje de înlăturare a aeronavelor imobilizate accidental pe suprafața de mișcare și benzile de siguranță adiacente.

b) Operatorii aerieni sunt răspunzători de înlăturarea aeronavelor imobilizate accidental pe suprafața de mișcare și benzile de siguranță adiacente.

c) Aeroportul Internațional "George Enescu" Bacău poate pune la dispoziție operatorilor aerieni date de contact ale firmelor ce dețin echipamente și utilaje capabile să înlătore aeronavele imobilizate accidental.

LRBC AD 2.24 CHARTS RELATED TO THE AERODROME

Aerodrome Chart - ICAO.....	AD 2.2-20
Aircraft Parking/Docking Chart - ICAO	AD 2.2-22
Aerodrome Obstacle Chart - ICAO - Type A	
RWY 16	AD 2.2-25
RWY 34	AD 2.2-26
Precision Approach Terrain Chart – ICAO	
RWY 16	AD 2.2-28
RWY 34	AD 2.2-29
Standard Departure Charts - Instrument – ICAO	
RWY 16	AD 2.2-30
RWY 34	AD 2.2-31
Bird concentrations in the vicinity of the aerodrome	AD 2.2-46
Instrument Approach Charts - ICAO	
ILS Z RWY 34	AD 2.2-53
ILS Y RWY 34	AD 2.2-54
RNP RWY 16	AD 2.2-71
RNP RWY 34	AD 2.2-72
NDB Z RWY 16	AD 2.2-91
NDB Y RWY 16	AD 2.2-92
NDB Z RWY 34	AD 2.2-93
NDB Y RWY 34	AD 2.2-94

LRBC AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable.

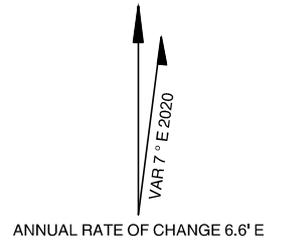
AERODROME CHART - ICAO
 46° 31' 19" N
 026° 54' 37" E
ELEV 608FT

BACAU TOWER 120.980
 BACAU TOWER ALTN 118.600

BACĂU / George Enescu
(LRBC)

RWY	DIRECTION	THR	BEARING STRENGTH
16	158°	46°31'58"N 026°54'21"E	66/F/B/W/T
34	338°	46°30'40"N 026°54'52"E	
HELIPORT		—	

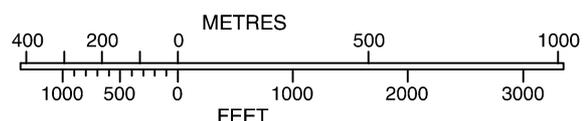
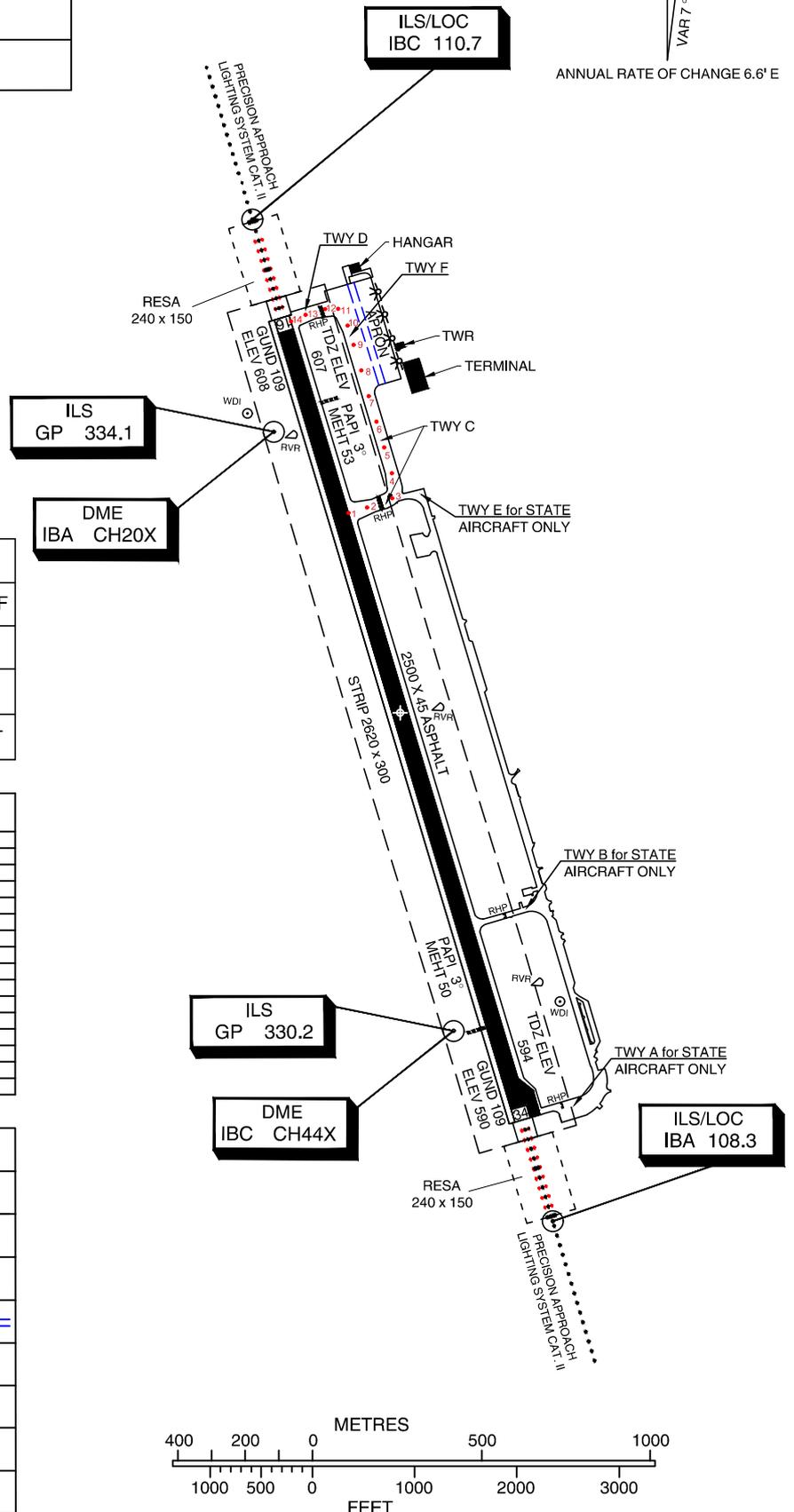
ELEVATIONS IN FEET
DIMENSIONS IN METRES
BEARINGS ARE MAGNETIC



TWYs Characteristics			
	TWY A, E	TWY B	TWY C, D, F
Width	18 M	16 M	23 M
Surface	CONCRETE		ASPHALT
Strength	17/R/C/W/T		67/F/B/W/T

TAXIWAY CENTERLINE POINTS			
TWY C	1	46°31'38.89"N	026°54'29.86"E
	2	46°31'39.38"N	026°54'32.46"E
	3	46°31'40.20"N	026°54'35.99"E
	4	46°31'42.64"N	026°54'36.04"E
	5	46°31'45.14"N	026°54'35.06"E
	6	46°31'47.64"N	026°54'34.08"E
	7	46°31'50.14"N	026°54'33.09"E
TWY F	8	46°31'52.64"N	026°54'32.11"E
	9	46°31'55.14"N	026°54'31.13"E
	10	46°31'57.02"N	026°54'30.39"E
	11	46°31'58.66"N	026°54'29.10"E
TWY D	12	46°31'58.67"N	026°54'27.28"E
	13	46°31'58.16"N	026°54'24.56"E
	14	46°31'57.55"N	026°54'22.52"E

LEGEND	
RWY HOLDING POSITION (RHP)	
RVR OBSERVATION SITE	
TWY CENTERLINE POINT	
APRON BOUNDARY	
APRON FLOODLIGHT	
WIND DIRECTION INDICATOR	
AERODROME REFERENCE POINT	
BUILDING	



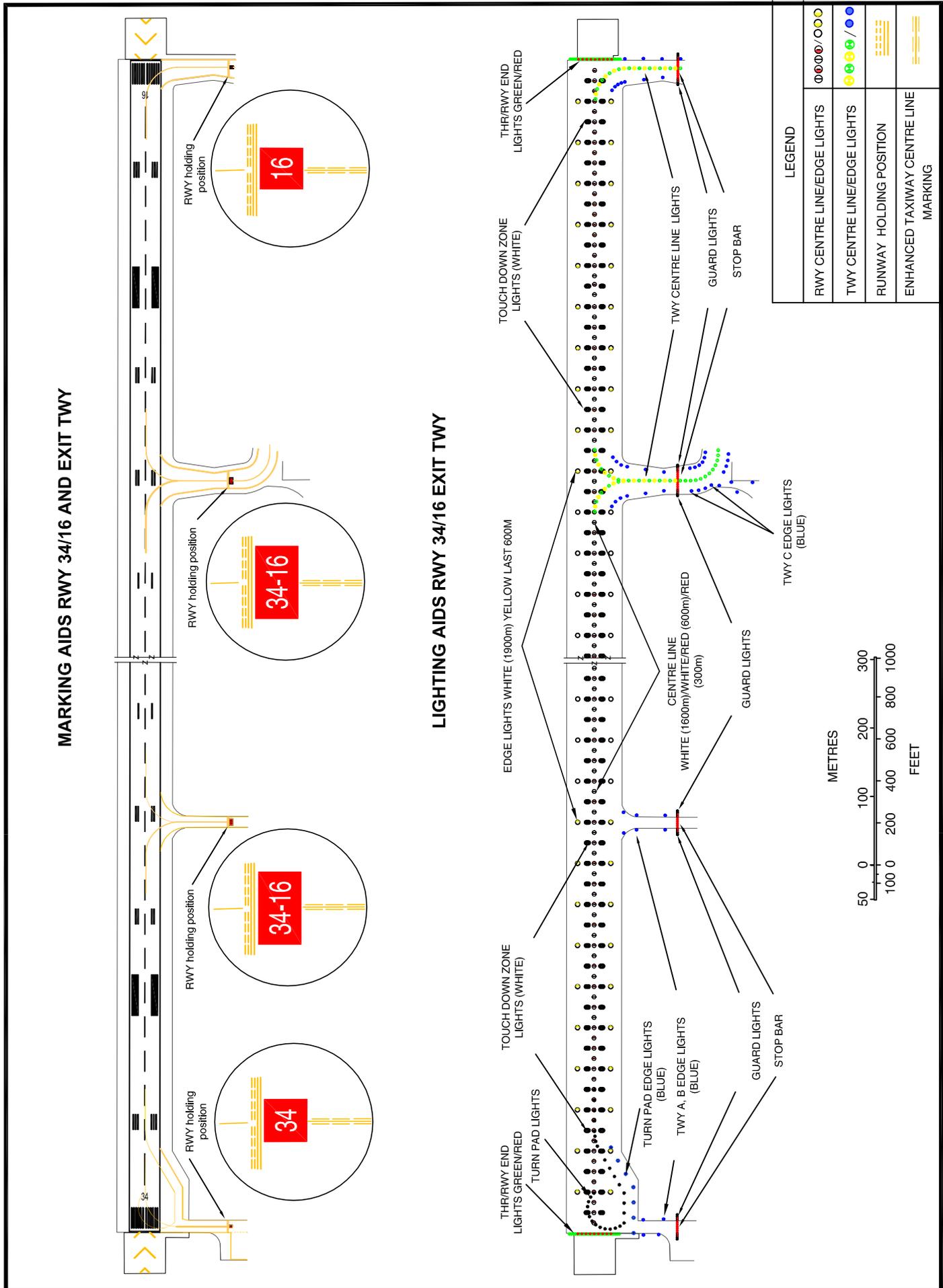
Changes: Chart revised.

BACĂU / George Enescu
(LRBC)

46° 31' 19" N
026° 54' 37" E
ELEV 607FT

BACAU TOWER 120.980
BACAU TOWER ALTN 118.600

AERODROME CHART - ICAO



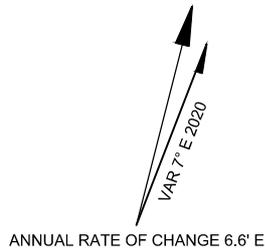
**AIRCRAFT PARKING/
DOCKING CHART - ICAO**

APRON ELEV
607 FT

BACAU TOWER 120.980
BACAU TOWER ALTN 118.600

**BACĂU / GEORGE ENESCU
(LRBC)**

**ELEVATIONS IN FEET
DIMENSIONS IN METRES
BEARINGS ARE MAGNETIC**



APRON BEARING
STRENGTH
PCN 56/R/A/W/T

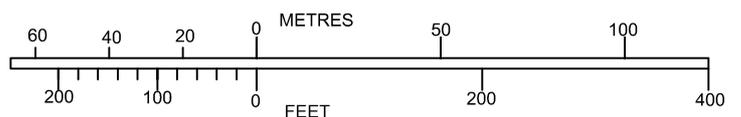
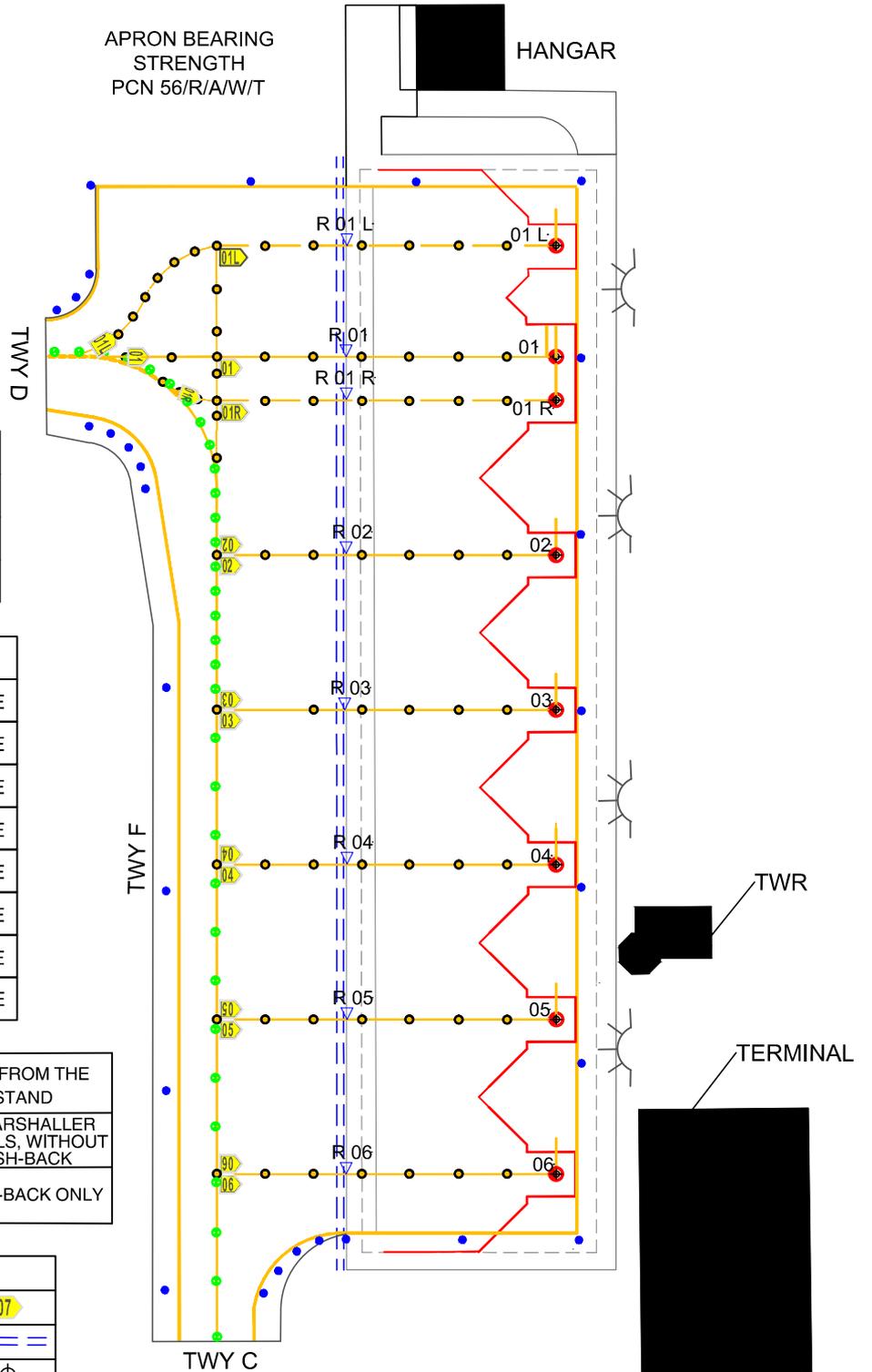
HANGAR

MAX AIRCRAFT TYPE	STANDS
B 737 FAMILY, A 320 FAMILY	01R, 01L, 02, 03, 04, 05, 06
B767 200, B 767 200 ER	01

INS CHECK POINTS COORDINATES	
01L	46° 32' 00.99" N 026° 54' 33.74" E
01	46° 31' 59.95" N 026° 54' 34.15" E
01R	46° 31' 59.54" N 026° 54' 34.32" E
02	46° 31' 58.08" N 026° 54' 34.89" E
03	46° 31' 56.63" N 026° 54' 35.46" E
04	46° 31' 55.18" N 026° 54' 36.03" E
05	46° 31' 53.72" N 026° 54' 36.60" E
06	46° 31' 52.27" N 026° 54' 37.17" E

A/C LETTER	ENTRANCE TO THE STAND	EXIT FROM THE STAND
A&B	BY MARSHALLER SIGNAL	BY MARSHALLER SIGNALS, WITHOUT PUSH-BACK
C&D	BY MARSHALLER SIGNAL	PUSH-BACK ONLY

LEGEND	
TO AIRCRAFT STAND	07
APRON BOUNDARY	== == ==
INS CHECK POINTS	⊕
SAFETY ZONE	—
APRON/TWY EDGE BLUE LIGHTS	●
APRON GUIDE LINES LIGHTS (LIH)	●
APRON FLOODLIGHT	☀
BUILDINGS	■
ROAD FOR HANDLING EQUIPMENT	== == ==
ATC/MARSHALLER TRANSFER POINT	R 01 L



Changes: MAG VAR, ATC Service Boundary.

AERODROME OBSTACLE CHART - ICAO
TYPE A (OPERATING LIMITATIONS)

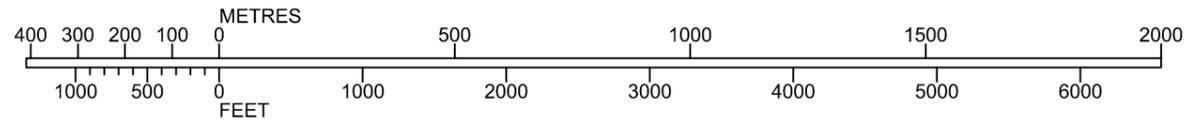
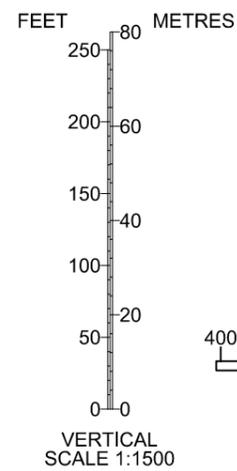
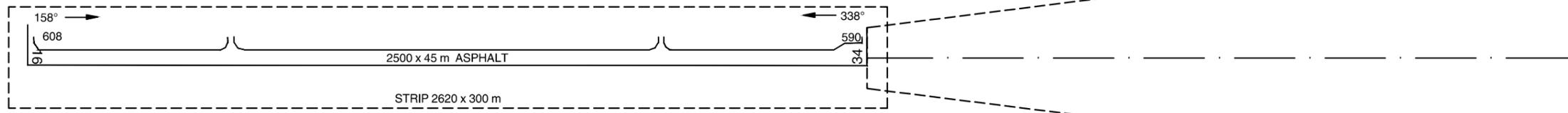
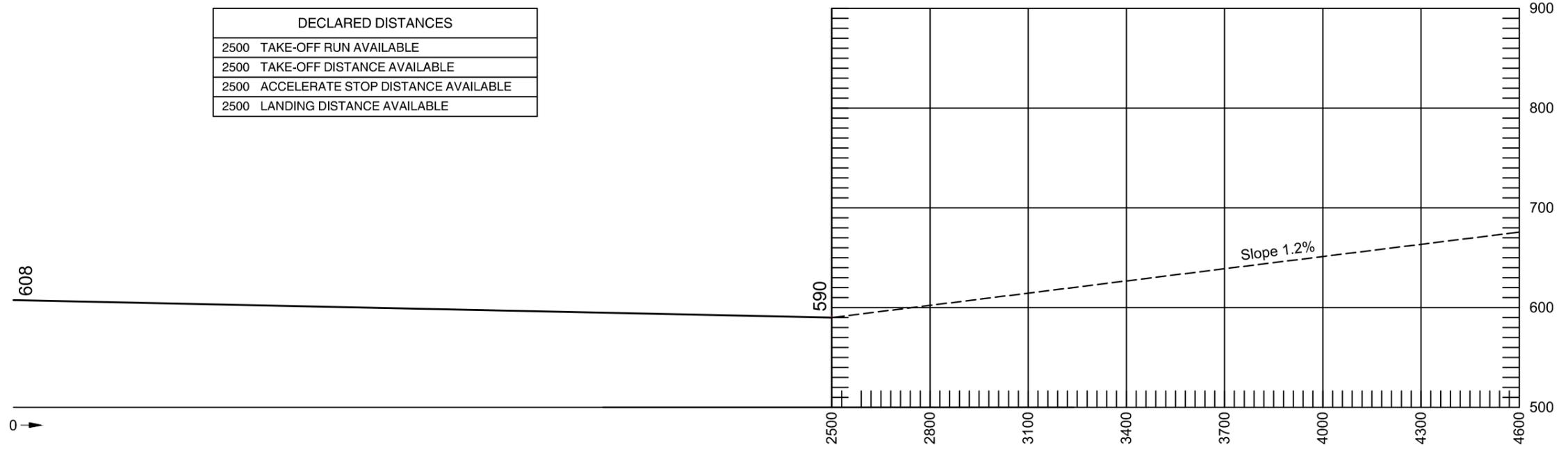
BACĂU / George Enescu (LRBC)
RWY16

ELEVATIONS IN FEET AND DIMENSIONS IN METRES

MAGNETIC VARIATION 7° E - 2020

RWY 16

DECLARED DISTANCES	
2500	TAKE-OFF RUN AVAILABLE
2500	TAKE-OFF DISTANCE AVAILABLE
2500	ACCELERATE STOP DISTANCE AVAILABLE
2500	LANDING DISTANCE AVAILABLE



Order of accuracy
Horizontal 0.5 m
Vertical 0.5 ft

LEGEND	

AMENDMENT RECORD		
NO.	DATE	ENTERED BY

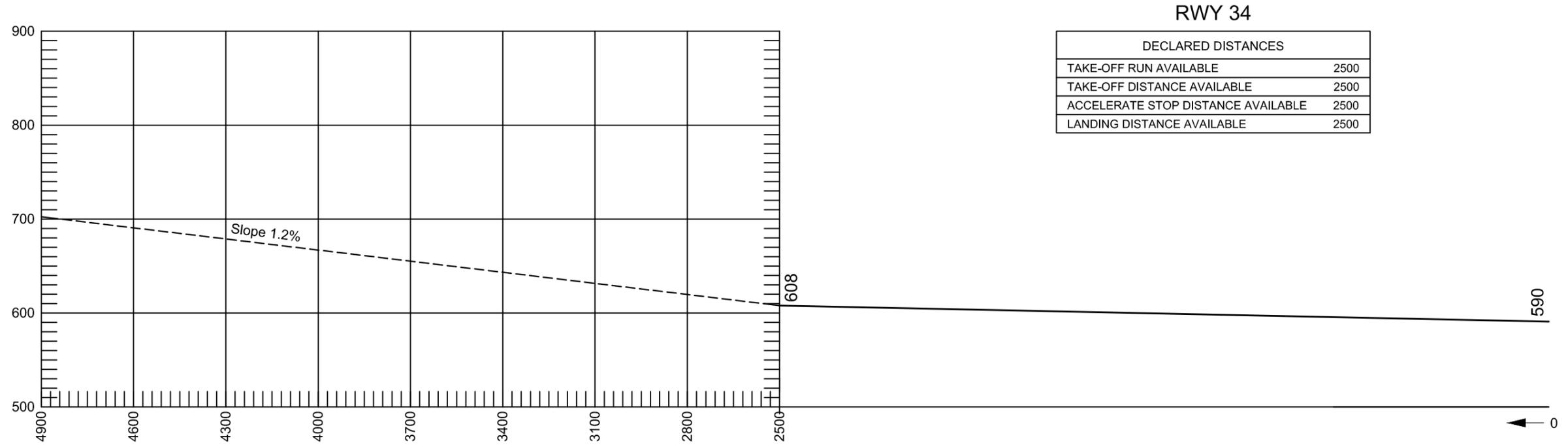
Changes: MAG VAR, MAG direction, THR ELEV and LDA.

AERODROME OBSTACLE CHART - ICAO
TYPE A (OPERATING LIMITATIONS)

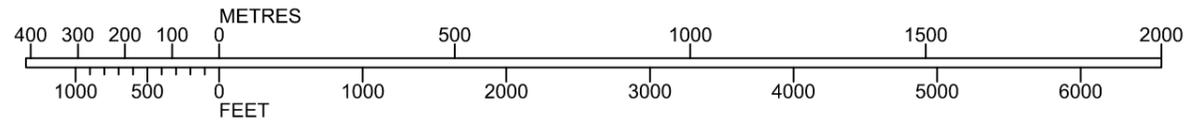
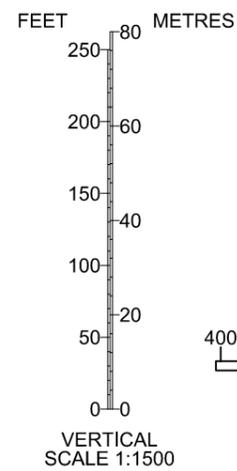
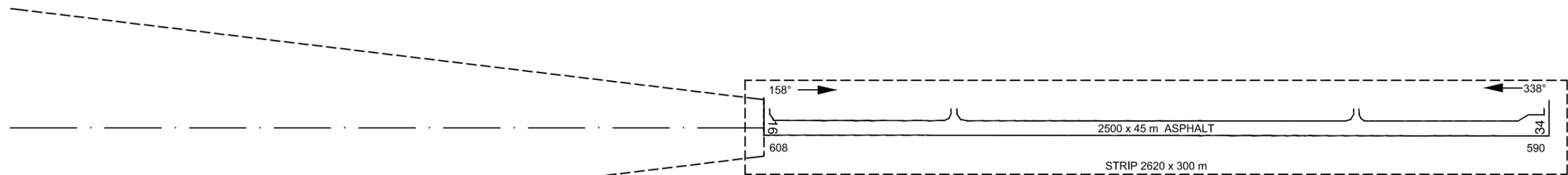
BACĂU / George Enescu (LRBC)
RWY34

ELEVATIONS IN FEET AND DIMENSIONS IN METRES

MAGNETIC VARIATION 7° E - 2020



DECLARED DISTANCES	
TAKE-OFF RUN AVAILABLE	2500
TAKE-OFF DISTANCE AVAILABLE	2500
ACCELERATE STOP DISTANCE AVAILABLE	2500
LANDING DISTANCE AVAILABLE	2500



Order of accuracy
Horizontal 0.5 m
Vertical 0.5 ft

LEGEND	

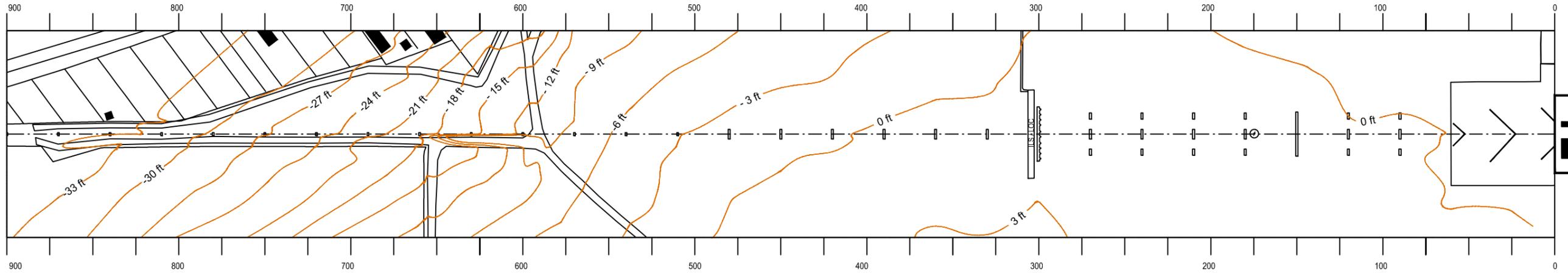
AMENDMENT RECORD		
NO.	DATE	ENTERED BY

Changes: MAG VAR, MAG direction, THR ELEV and LDA.

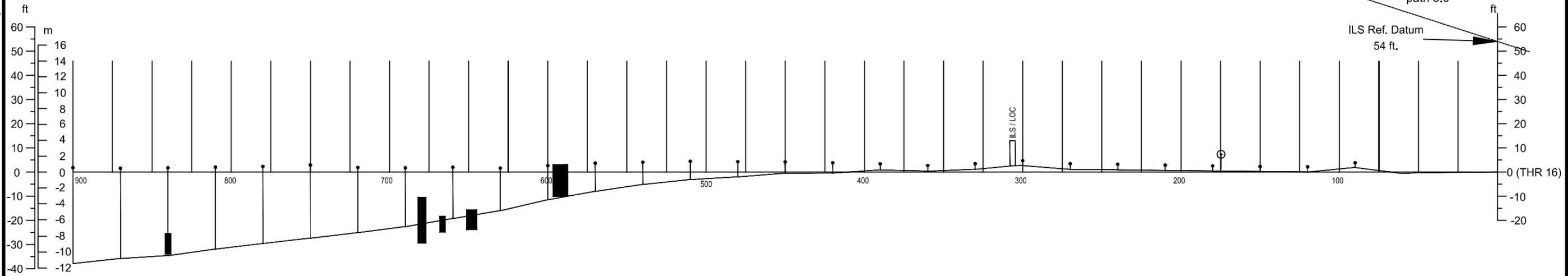
PRECISION APPROACH TERRAIN CHART - ICAO

BACĂU / George Enescu (LRBC)
RWY16

DISTANCES IN METRES AND HEIGHTS IN FEET



Changes: New chart.



LEGEND	
BUILDING	■
ROAD	==
CONTOUR	-0-
CENTRE-LINE PROFILE	~
FENCE	---
APPROACH LIGHTS	↑
ANTENNA	⊙

HORIZONTAL SCALE 1:2.500
VERTICAL SCALE 1:500

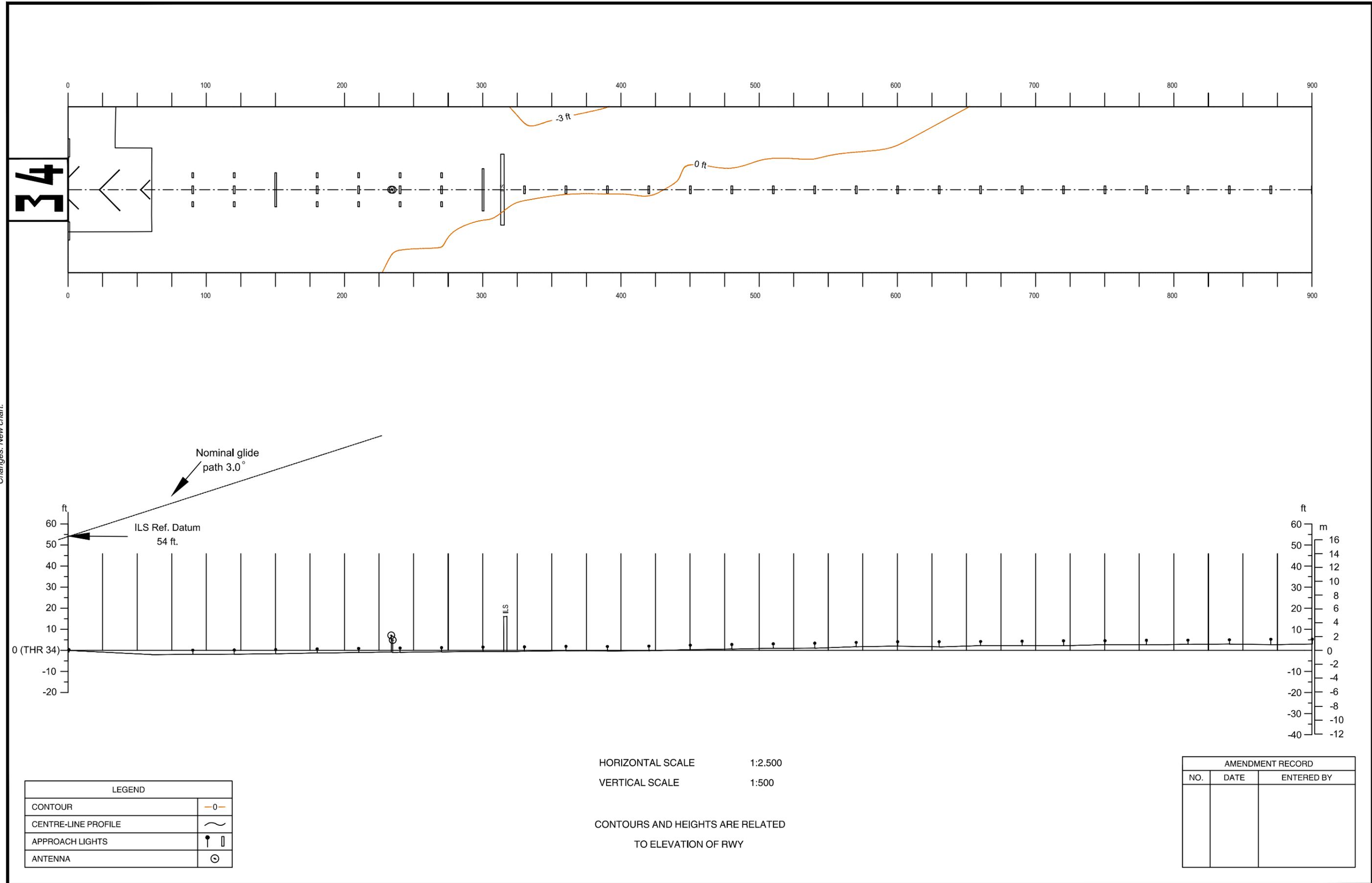
CONTOURS AND HEIGHTS ARE RELATED
TO ELEVATION OF RWY

AMENDMENT RECORD		
NO.	DATE	ENTERED BY

PRECISION APPROACH TERRAIN CHART - ICAO

BACĂU / George Enescu (LRBC)
RWY34

DISTANCES IN METRES AND HEIGHTS IN FEET



Changes: New chart.

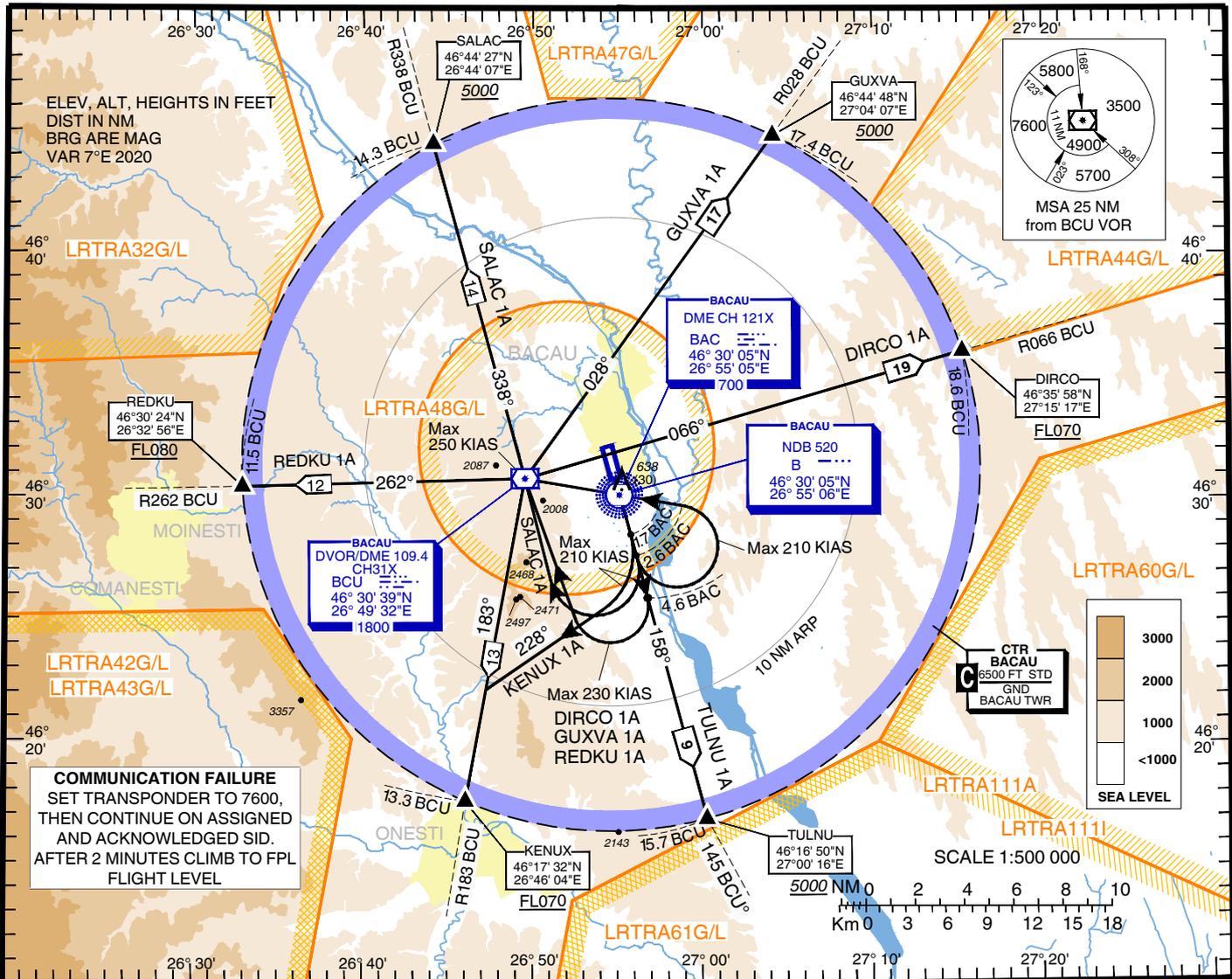
**STANDARD DEPARTURE CHART
INSTRUMENT (SID) - ICAO**

TRANSITION ALTITUDE 5000 FT

**BACĂU / George Enescu (LRBC)
RWY 16**

BACAU TOWER 120.980
BACAU TOWER ALTN 118.600

DIRCO 1A, GUXVA 1A, KENUX 1A,
KENUX 1T, REDKU 1A, SALAC 1A, TULNU 1A



**COMMUNICATION FAILURE
SET TRANSPONDER TO 7600,
THEN CONTINUE ON ASSIGNED
AND ACKNOWLEDGED SID.
AFTER 2 MINUTES CLIMB TO FPL
FLIGHT LEVEL**

SID Identifier	DESCRIPTION
DIRCO 1A	Climb to B , then follow QDR 158° B . At 4.6 BAC turn right (1) to BCU and follow R 066° BCU (066°M) to DIRCO . Cross DIRCO at or above FL070 . (1) Max 230 KIAS for the turn. PDG: 4.4% up to 2900 ft .
GUXVA 1A	Climb to B , then follow QDR 158° B . At 4.6 BAC turn right (1) to BCU and follow R 028° BCU (028°M) to GUXVA . Cross GUXVA at or above 5000 ft . (1) Max 230 KIAS for the turn. PDG: 4.4% up to 2900 ft .
KENUX 1A	Climb to B , then follow QDR 158° B . At 1.7 BAC turn right (1) heading 228°M to intercept and follow R 183° BCU (183°M) to KENUX . Cross KENUX at or above FL070 (1) Max 210 KIAS for the turn. PDG: 6.1% up to 2800 ft . ATS climb gradient: 7.2% up to FL070. Advise ATC if unable to ensure the ATS climb gradient.
KENUX 1T	Climb to B , then follow QDR 158° B . At 2.6 BAC turn left (1) to BCU and follow R 183° BCU (183°M) to KENUX . Cross KENUX at or above FL070 . (1) Max 210 KIAS for the turn. PDG: 5.1% up to 2800 ft . ATS climb gradient: 5.1% up to FL070. Advise ATC if unable to ensure the ATS climb gradient.
REDKU 1A	Climb to B , then follow QDR 158° B . At 4.6 BAC turn right (1) to BCU and follow R 262° BCU (262°M) to REDKU . Cross REDKU at or above FL080 . (1) Max 230 KIAS for the turn. PDG: 4.4% up to 2900 ft . ATS climb gradient: 5.9% up to FL080. Advise ATC if unable to ensure the ATS climb gradient.
SALAC 1A	Climb to B , then follow QDR 158° B . At 2.6 BAC turn right (1) to BCU and follow R 338° BCU (338°M) to SALAC . Cross SALAC at or above 5000 ft . (1) Max 210 KIAS for the turn. PDG: 5.6% up to 2800 ft .
TULNU 1A	Climb to B , then follow QDR 158° B to TULNU . Cross TULNU at or above 5000 ft . ATS climb gradient: 5.1% up to 5000 ft . Advise ATC if unable to ensure the ATS climb gradient.

BACĂU / George Enescu (LRBC)
SID RWY 16

AERONAUTICAL DATA TABULATION

SID RWY 16	
Fix/Point	Coordinates
BCU VORDME	46°30'39.3"N 026°49'32.0"E
BRG 157.85° B / 1.7 BAC	46°28'26.7"N 026°55'44.2"E
BRG 157.85° B / 2.6 BAC	46°27'34.5"N 026°56'04.0"E
BRG 157.85° B / 4.6 BAC	46°25'38.6"N 026°56'48.9"E
DIRCO – BRG 066.17° / 18.55NM BCU	46°35'58.0"N 027°15'17.0"E
GUXVA – BRG 028.29° / 17.36NM BCU	46°44'48.0"N 027°04'07.0"E
KENUX – BRG 183.38° / 13.34NM BCU	46°17'32.0"N 026°46'04.0"E
REDKU – BRG 261.82° / 11.47NM BCU	46°30'24.0"N 026°32'56.0"E
SALAC – BRG 337.90° / 14.30NM BCU	46°44'27.0"N 026°44'07.0"E
TULNU – BRG 144.69° / 15.70NM BCU	46°16'50.0"N 027°00'16.0"E
B NDB	46°30'05.2"N 026°55'05.6"E
BAC DME	46°30'05.0"N 026°55'05.0"E
DER 16	46°30'39.8"N 026°54'52.0"E

TEMPORARY RESERVED AREAS (TRA)

Identification	Vertical limits	Identification	Vertical limits
LRTRA32G	GND – FL95	LRTRA47L	5000 FT AMSL – FL200
LRTRA32L	FL95 – FL200	LRTRA48G	GND – 5500 FT AMSL
LRTRA42G	GND – FL85	LRTRA48L	5500 FT AMSL – FL200
LRTRA42L	FL85 – FL200	LRTRA60G	GND – 5000 FT AMSL
LRTRA43G	GND – FL90	LRTRA60L	5000 FT AMSL – FL200
LRTRA43L	FL90 – FL200	LRTRA61G	GND – FL65
LRTRA44G	GND – 5000 FT AMSL	LRTRA61L	FL65 – FL200
LRTRA44L	5000 FT AMSL – FL200	LRTRA111A	FL65 – FL280
LRTRA47G	GND – 5000 FT AMSL	LRTRA111I	FL65 – FL280

**STANDARD DEPARTURE CHART
INSTRUMENT (SID) - ICAO**

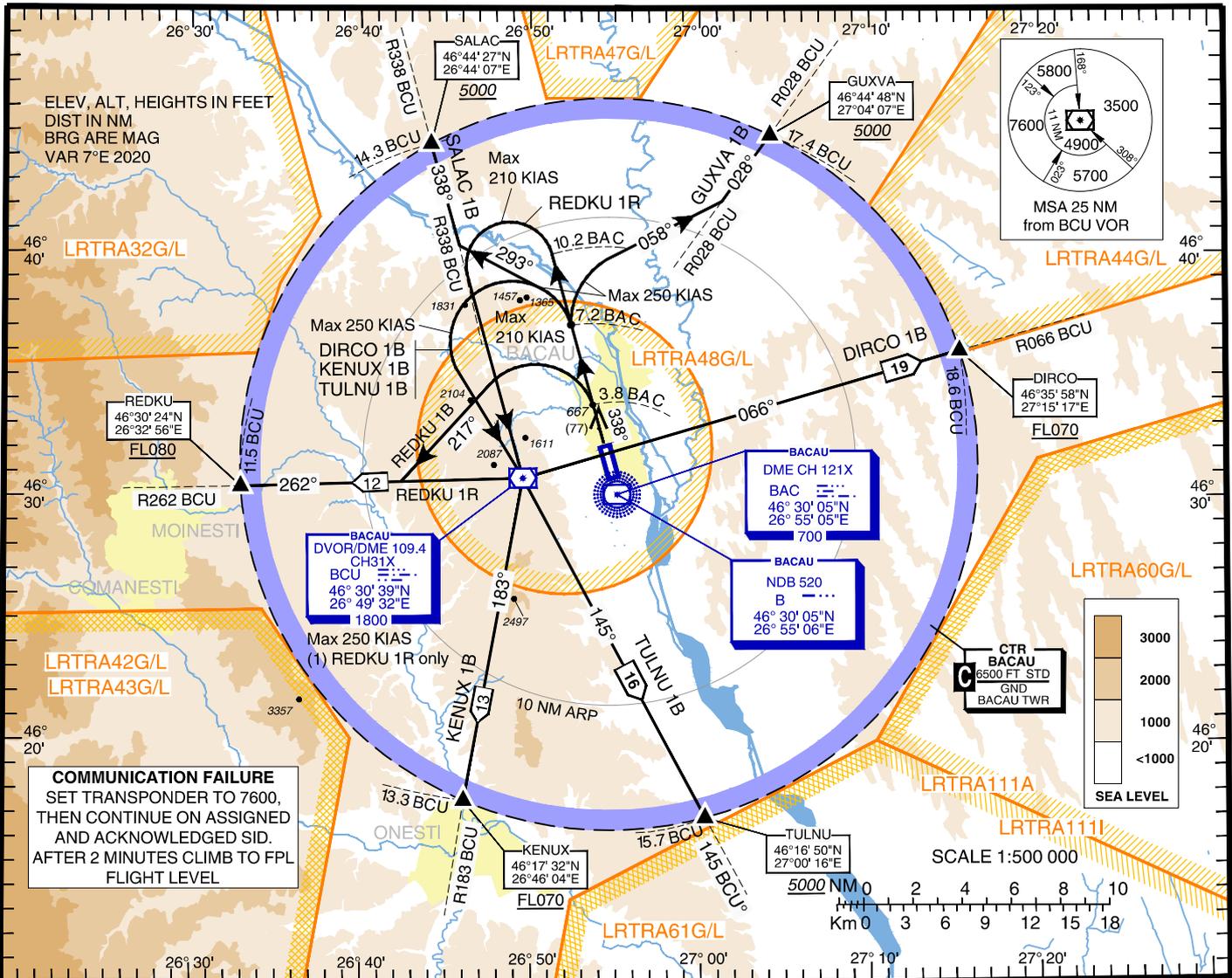
TRANSITION ALTITUDE 5000 FT

BACĂU / George Enescu (LRBC)

RWY 34

BACAU TOWER 120.980
BACAU TOWER ALTN 118.600

DIRCO 1B, GUXVA 1B, KENUX 1B,
REDKU 1B, REDKU 1R, SALAC 1B, TULNU 1B



SID Identifier	DESCRIPTION
DIRCO 1B	Climb on QDR 338° B . At 7.2 BAC turn left (1) to BCU and follow R 066° BCU (066° M) to DIRCO . Cross DIRCO at or above FL070 . (1) Max 250 KIAS. PDG: 3.7% up to 2400 ft.
GUXVA 1B	Climb on QDR 338° B . At 7.2 BAC turn right (1) heading 058° M to intercept and follow R 028° BCU (028° M) to GUXVA . Cross GUXVA at or above 5000 ft . (1) Max 250 KIAS. ATS climb gradient: 4.8 % up to 5000 ft. Advise ATC if unable to ensure the ATS climb gradient.
KENUX 1B	Climb on QDR 338° B . At 7.2 BAC turn left (1) to BCU and follow R 183° BCU (183° M) to KENUX . Cross KENUX at or above FL070 . (1) Max 250 KIAS. PDG: 3.7% up to 2400 ft. ATS climb gradient: 4.4 % up to FL070. Advise ATC if unable to ensure the ATS climb gradient.
REDKU 1B	Climb on QDR 338° B . At 3.8 BAC turn left (1) heading 217° M to intercept and follow R 262° BCU (262° M) to REDKU . Cross REDKU at or above FL080 . (1) Max 210 KIAS. PDG: 5.1% up to 2400 ft. ATS climb gradient: 7.7 % up to FL080. Advise ATC if unable to ensure the ATS climb gradient.
REDKU 1R	Climb on QDR 338° B . At 10.2 BAC turn left (1) to BCU (2) and follow R 262° BCU (262° M) to REDKU . Cross REDKU at or above FL080 . (1) Max 210 KIAS. (2) Max 250 KIAS. ATS climb gradient: 4.4 % up to FL080. Advise ATC if unable to ensure the ATS climb gradient.
SALAC 1B	Climb on QDR 338° B . At 7.2 BAC turn left (1) heading 293° M to intercept and follow R 338° BCU (338° M) to SALAC . Cross SALAC at or above 5000 ft . (1) Max 250 KIAS. ATS climb gradient: 5.1 % up to 5000 ft. Advise ATC if unable to ensure the ATS climb gradient.
TULNU 1B	Climb on QDR 338° B . At 7.2 BAC turn left (1) to BCU and follow R 145° BCU (145° M) to TULNU . Cross TULNU at or above 5000 ft . (1) Max 250 KIAS. PDG: 3.7% up to 2400 ft.

BACĂU / George Enescu (LRBC)
SID RWY 34

AERONAUTICAL DATA TABULATION

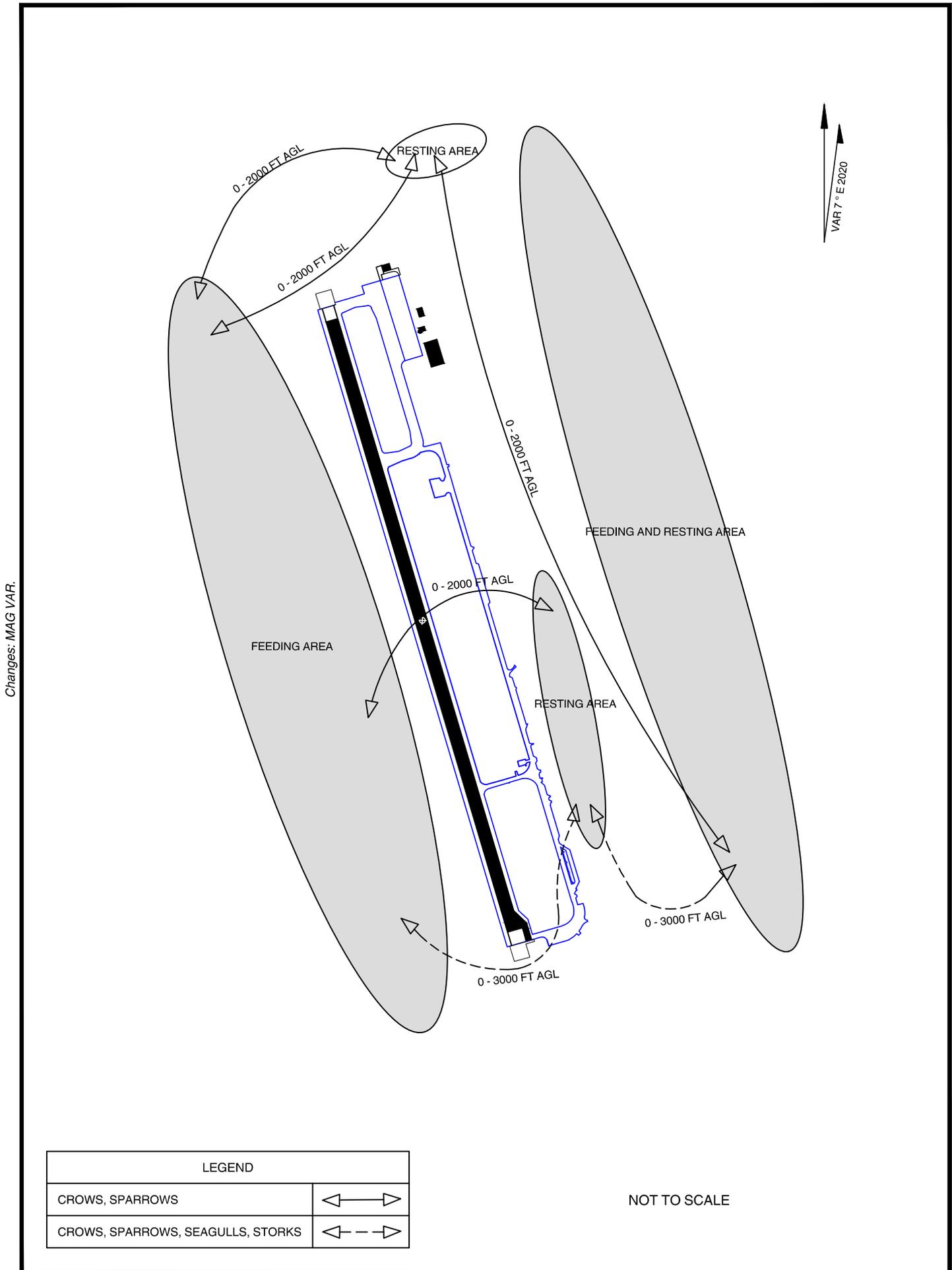
SID RWY 34	
Fix/Point	Coordinates
BCU VORDME	46°30'39.3"N 026°49'32.0"E
BRG 338.0° B / 3.8 BAC	46°33'45.3"N 026°53'40.1"E
BRG 338.0° B / 7.2 BAC	46°37'02.2"N 026°52'23.4"E
BRG 338.0° B / 10.2 BAC	46°39'56.0"N 026°51'15.6"E
DIRCO – BRG 066.17° / 18.55NM BCU	46°35'58.0"N 027°15'17.0"E
GUXVA – BRG 028.29° / 17.36NM BCU	46°44'48.0"N 027°04'07.0"E
KENUX – BRG 183.38° / 13.34NM BCU	46°17'32.0"N 026°46'04.0"E
REDKU – BRG 261.82° / 11.47NM BCU	46°30'24.0"N 026°32'56.0"E
SALAC – BRG 337.90° / 14.30NM BCU	46°44'27.0"N 026°44'07.0"E
TULNU – BRG 144.69° / 15.70NM BCU	46°16'50.0"N 027°00'16.0"E
B NDB	46°30'05.2"N 026°55'05.6"E
BAC DME	46°30'05.0"N 026°55'05.0"E
DER 34	46°31'57.9"N 026°54'21.3"E

TEMPORARY RESERVED AREAS (TRA)

Identification	Vertical limits	Identification	Vertical limits
LRTRA32G	GND – FL95	LRTRA47L	5000 FT AMSL – FL200
LRTRA32L	FL95 – FL200	LRTRA48G	GND – 5500 FT AMSL
LRTRA42G	GND – FL85	LRTRA48L	5500 FT AMSL – FL200
LRTRA42L	FL85 – FL200	LRTRA60G	GND – 5000 FT AMSL
LRTRA43G	GND – FL90	LRTRA60L	5000 FT AMSL – FL200
LRTRA43L	FL90 – FL200	LRTRA61G	GND – FL65
LRTRA44G	GND – 5000 FT AMSL	LRTRA61L	FL65 – FL200
LRTRA44L	5000 FT AMSL – FL200	LRTRA111A	FL65 – FL280
LRTRA47G	GND – 5000 FT AMSL	LRTRA111I	FL65 – FL280

Bird Concentrations in the vicinity of the aerodrome

BACĂU / George Enescu
(LRBC)

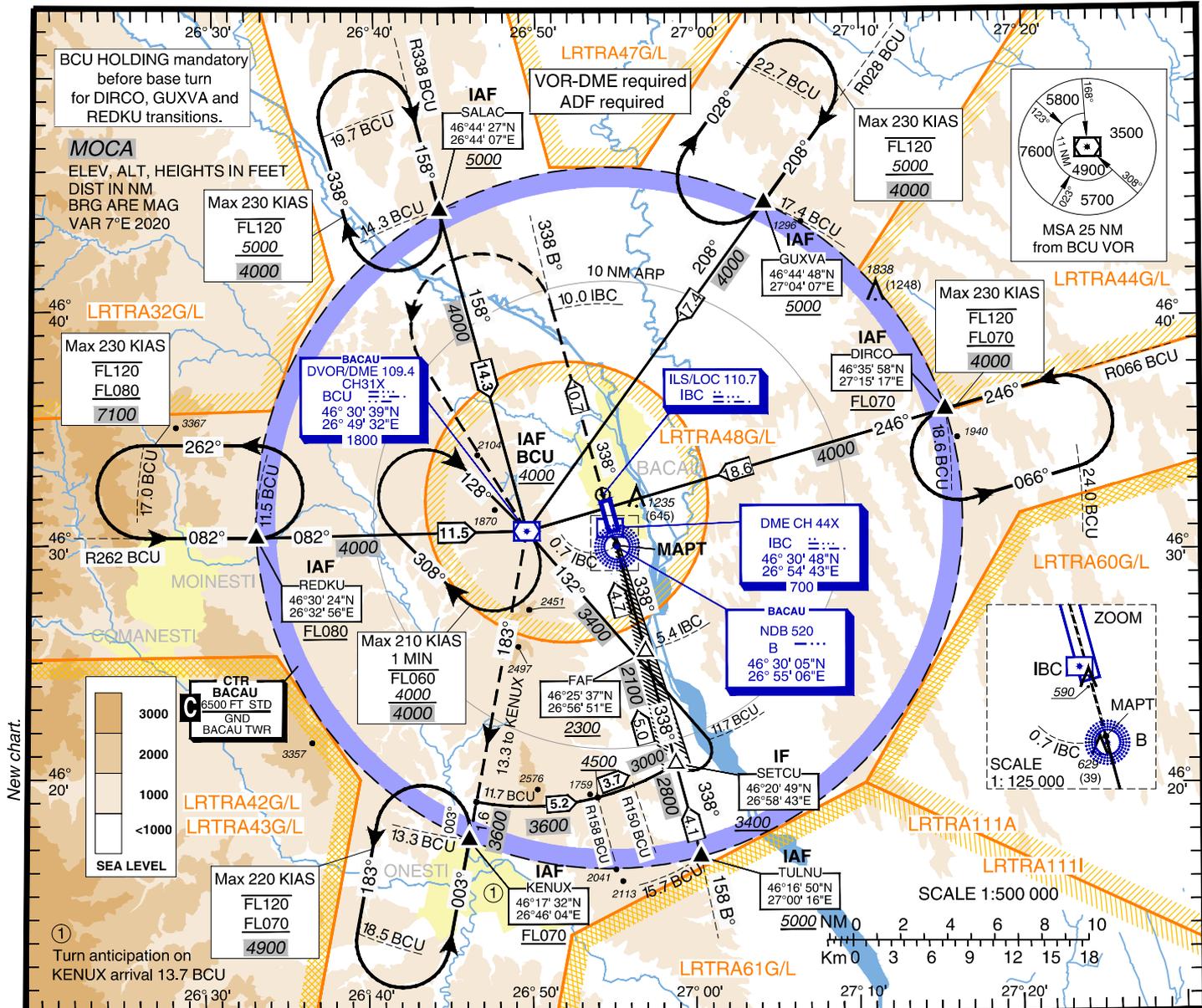




INSTRUMENT APPROACH AERODROME ELEV. **608 ft**
CHART - ICAO HEIGHTS RELATED TO THR RWY 34 - ELEV 590 ft

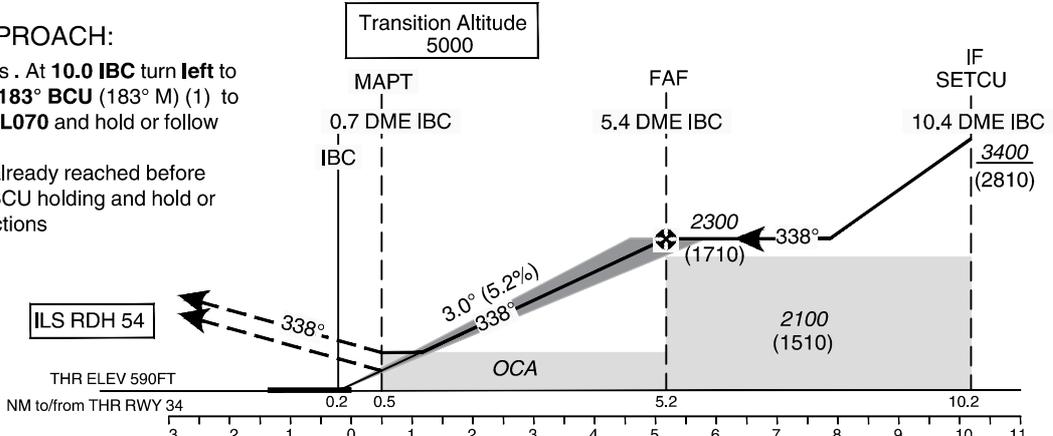
BACAU TOWER 120.980
BACAU TOWER ALTN 118.600

BACĂU / George Enescu (LRBC)
ILS Z RWY 34

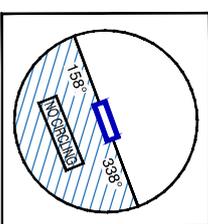


MISSED APPROACH:

Climb on Runway axis. At **10.0 IBC** turn **left** to **BCU** then to follow **R183° BCU** (183° M) (1) to **KENUX** climbing to **FL070** and hold or follow ATC intructions.
(1) If **4000** (3410) is already reached before BCU, then enter BCU holding and hold or follow ATC instructions



OCA(H)		A	B
Straight-in Approach	ILS CAT I	736 (146)	746 (156)
	ILS CAT II	650 (60)	664 (74)
	ILS GP INOP	880 (290)	
Circling (2)		1820	



GS	KIAS	70	90	100	120	140	160
FAF-MAPT 4.7 NM	min:s	4:02	3:08	2:49	2:21	2:01	1:46
Rate of descent (5.24%)	ft/min	372	478	531	637	743	849
Dist to IBC DME	NM	1	2	3	4	5	
Altitudes (Heights)	FT	910 (320)	1230 (640)	1550 (960)	1870 (1280)	2180 (1590)	

For data tabulation see verso.

**BACĂU / George Enescu (LRBC)
ILS Z RWY 34****AERONAUTICAL DATA TABULATION**

ILS approach to RWY 34	
Fix/Point	Coordinates
DIRCO (IAF) – BRG 066.17° / 18.55NM BCU	46°35'58.0"N 027°15'17.0"E
GUXVA (IAF) – BRG 028.29° / 17.36NM BCU	46°44'48.0"N 027°04'07.0"E
KENUX (IAF) – BRG 183.38° / 13.34NM BCU	46°17'32.0"N 026°46'04.0"E
REDKU (IAF) – BRG 261.82° / 11.47NM BCU	46°30'24.0"N 026°32'56.0"E
SALAC (IAF) – BRG 337.90° / 14.30NM BCU	46°44'27.0"N 026°44'07.0"E
TULNU (IAF) – BRG 144.69° / 15.70NM BCU	46°16'50.0"N 027°00'16.0"E
BCU VORDME (IAF)	46°30'39.3"N 026°49'32.0"E
B NDB	46°30'05.2"N 026°55'05.6"E
BRG 158° / 11.7NM BCU	46°19'21.4"N 026°53'54.2"E
BRG 183.38° / 11.7NM BCU	46°19'09.0"N 026°46'29.5"E
SETCU (IF) – BRG 158° B / 11.7NM BCU BRG 157.83° IBC / 11.7 BCU	46°20'49.2"N 026°58'43.2"E
FAF (GP INOP) – BRG 157.83° IBC / 5.4NM IBC	46°25'36.7"N 026°56'50.8"E
MAPT (GP INOP) – BRG 157.83° IBC / 0.70NM IBC	46°30'08.9"N 026°55'04.1"E
IBC LOC	46°32'07.5"N 026°54'17.6"E
IBC GP DME	46°30'48.2"N 026°54'42.8"E
THR 34	46°30'39.79"N 026°54'51.99"E
BRG 338° B / 10.0NM IBC	46°40'28.1"N 026°51'00.3"E

TEMPORARY RESERVED AREAS (TRA)			
Identification	Vertical limits	Identification	Vertical limits
LRTRA32G	GND – FL95	LRTRA47L	5000 FT AMSL – FL200
LRTRA32L	FL95 – FL200	LRTRA48G	GND – 5500 FT AMSL
LRTRA42G	GND – FL85	LRTRA48L	5500 FT AMSL – FL200
LRTRA42L	FL85 – FL200	LRTRA60G	GND – 5000 FT AMSL
LRTRA43G	GND – FL90	LRTRA60L	5000 FT AMSL – FL200
LRTRA43L	FL90 – FL200	LRTRA61G	GND – FL65
LRTRA44G	GND – 5000 FT AMSL	LRTRA61L	FL65 – FL200
LRTRA44L	5000 FT AMSL – FL200	LRTRA111A	FL65 – FL280
LRTRA47G	GND – 5000 FT AMSL	LRTRA111I	FL65 – FL280

RADIO COMMUNICATION FAILURE

- If ILS instrument approach procedure was assigned or received by ATC, set transponder 7600, proceed according assigned or designated ILS instrument approach procedure. Descending shall be executed in accordance with vertical restrictions specified on chart.
- If ILS instrument approach procedure was not assigned or received by ATC, for arrivals via REDKU / SALAC / GUXVA / DIRCO / KENUX: set transponder 7600, proceed according to FPL to CTR entry point (REDKU / SALAC / GUXVA / DIRCO / KENUX) and hold at least 6 minutes, then continue the ILS approach. Descending shall be executed in accordance with vertical restrictions specified on chart
- If ILS instrument approach procedure was not assigned or received by ATC, for arrivals via TULNU: set transponder 7600, proceed according to FPL to CTR entry point TULNU – IAF at min FL60, then direct to BCU VOR at or above MSA and hold at least 6 minutes, then continue the ILS approach. Descending shall be executed in accordance with vertical restrictions specified on chart.

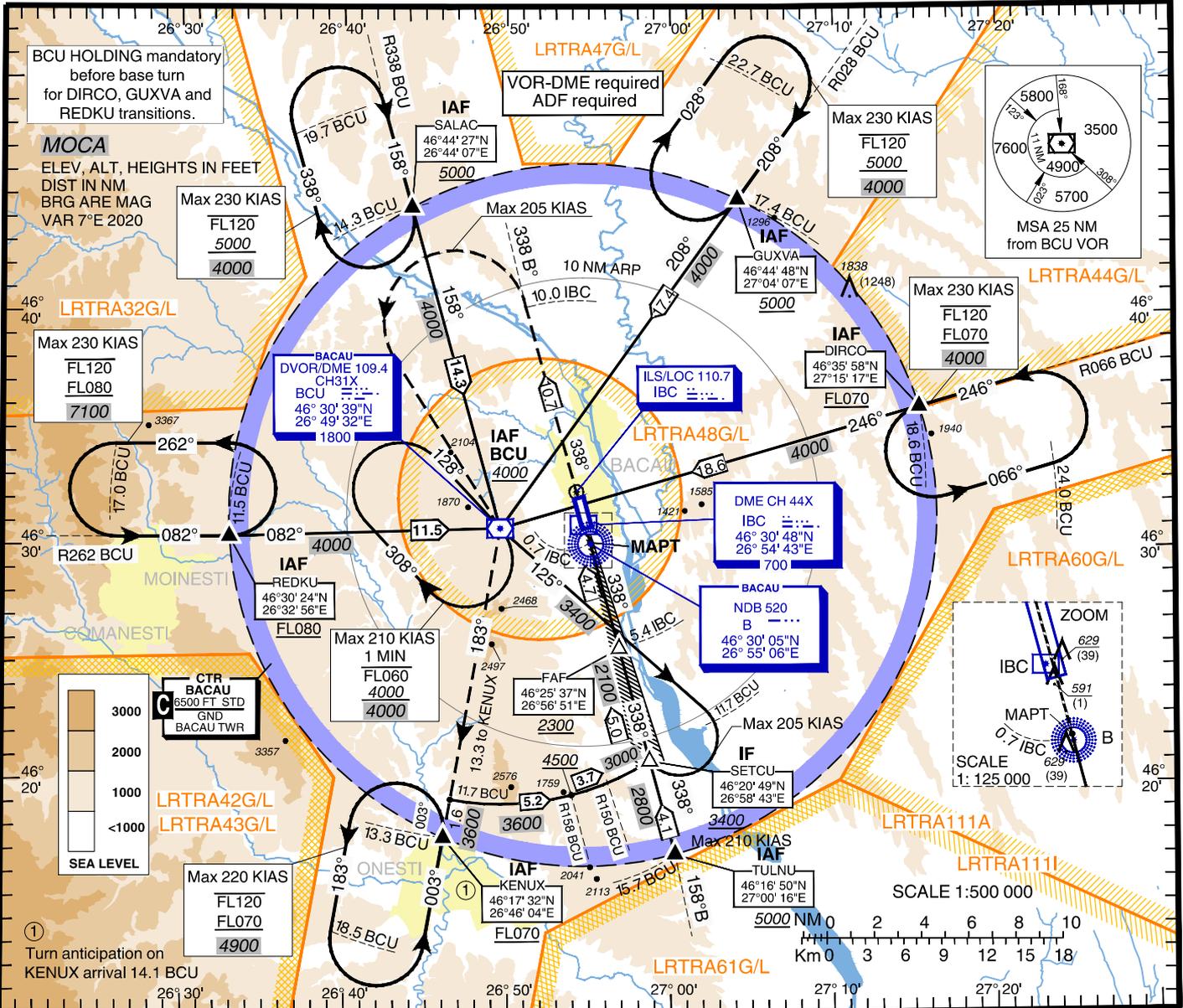


INSTRUMENT APPROACH AERODROME ELEV. 608 ft
CHART - ICAO

BACAU TOWER 120.980
BACAU TOWER ALTN 118.600

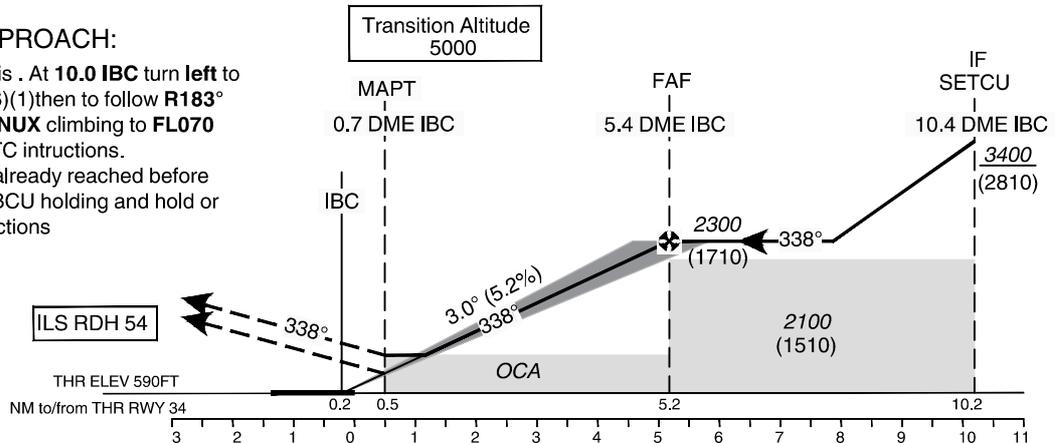
BACĂU / George Enescu (LRBC)
ILS Y RWY 34

HEIGHTS RELATED TO
THR RWY 34 - ELEV 590 ft

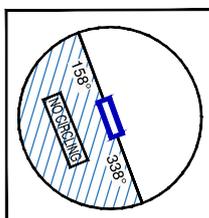


MISSED APPROACH:

Climb on Runway axis. At **10.0 IBC** turn **left** to **BCU** (Max 205 KIAS)(1) then to follow **R183° BCU** (183° M) to **KENUX** climbing to **FL070** and hold or follow ATC instructions.
(1) If **4000** (3410) is already reached before BCU, then enter BCU holding and hold or follow ATC instructions



OCA(H)		C	D
Straight-in Approach	ILS CAT I	754 (164)	766 (176)
	ILS CAT II	675 (85)	691 (101)
	ILS GP INOP	880 (290)	
Circling (2)		1820	1980



GS	KIAS	70	90	100	120	140	160
FAF-MAPT 4.7 NM	min:s	4:02	3:08	2:49	2:21	2:01	1:46
Rate of descent (5.24%)	ft/min	372	478	531	637	743	849
Dist to IBC DME	NM	1	2	3	4	5	
Altitudes (Heights)	FT	910 (320)	1230 (640)	1550 (960)	1870 (1280)	2180 (1590)	

(2) Circling West of airport prohibited.

For data tabulation see verso.

**BACĂU / George Enescu (LRBC)
ILS Y RWY 34****AERONAUTICAL DATA TABULATION**

ILS approach to RWY 34	
Fix/Point	Coordinates
DIRCO (IAF) – BRG 066.17° / 18.55NM BCU	46°35'58.0"N 027°15'17.0"E
GUXVA (IAF) – BRG 028.29° / 17.36NM BCU	46°44'48.0"N 027°04'07.0"E
KENUX (IAF) – BRG 183.38° / 13.34NM BCU	46°17'32.0"N 026°46'04.0"E
REDKU (IAF) – BRG 261.82° / 11.47NM BCU	46°30'24.0"N 026°32'56.0"E
SALAC (IAF) – BRG 337.90° / 14.30NM BCU	46°44'27.0"N 026°44'07.0"E
TULNU (IAF) – BRG 144.69° / 15.70NM BCU	46°16'50.0"N 027°00'16.0"E
BCU VORDME (IAF)	46°30'39.3"N 026°49'32.0"E
B NDB	46°30'05.2"N 026°55'05.6"E
BRG 158° / 11.7NM BCU	46°19'21.4"N 026°53'54.2"E
BRG 183.38° / 11.7NM BCU	46°19'09.0"N 026°46'29.5"E
SETCU (IF) – BRG 158° B / 11.7NM BCU BRG 157.83° IBC / 11.7 BCU	46°20'49.2"N 026°58'43.2"E
FAF (GP INOP) – BRG 157.83° IBC / 5.4NM IBC	46°25'36.7"N 026°56'50.8"E
MAPT (GP INOP) – BRG 157.83° IBC / 0.70NM IBC	46°30'08.9"N 026°55'04.1"E
IBC LOC	46°32'07.5"N 026°54'17.6"E
IBC GP DME	46°30'48.2"N 026°54'42.8"E
THR 34	46°30'39.79"N 026°54'51.99"E
BRG 338° B / 10.0NM IBC	46°40'28.1"N 026°51'00.3"E

TEMPORARY RESERVED AREAS (TRA)			
Identification	Vertical limits	Identification	Vertical limits
LRTRA32G	GND – FL95	LRTRA47L	5000 FT AMSL – FL200
LRTRA32L	FL95 – FL200	LRTRA48G	GND – 5500 FT AMSL
LRTRA42G	GND – FL85	LRTRA48L	5500 FT AMSL – FL200
LRTRA42L	FL85 – FL200	LRTRA60G	GND – 5000 FT AMSL
LRTRA43G	GND – FL90	LRTRA60L	5000 FT AMSL – FL200
LRTRA43L	FL90 – FL200	LRTRA61G	GND – FL65
LRTRA44G	GND – 5000 FT AMSL	LRTRA61L	FL65 – FL200
LRTRA44L	5000 FT AMSL – FL200	LRTRA111A	FL65 – FL280
LRTRA47G	GND – 5000 FT AMSL	LRTRA111I	FL65 – FL280

RADIO COMMUNICATION FAILURE

- If ILS instrument approach procedure was assigned or received by ATC, set transponder 7600, proceed according assigned or designated ILS instrument approach procedure. Descending shall be executed in accordance with vertical restrictions specified on chart.
- If ILS instrument approach procedure was not assigned or received by ATC, for arrivals via REDKU / SALAC / GUXVA / DIRCO / KENUX: set transponder 7600, proceed according to FPL to CTR entry point (REDKU / SALAC / GUXVA / DIRCO / KENUX) and hold at least 6 minutes, then continue the ILS approach. Descending shall be executed in accordance with vertical restrictions specified on chart
- If ILS instrument approach procedure was not assigned or received by ATC, for arrivals via TULNU: set transponder 7600, proceed according to FPL to CTR entry point TULNU – IAF at min FL60, then direct to BCU VOR at or above MSA and hold at least 6 minutes, then continue the ILS approach. Descending shall be executed in accordance with vertical restrictions specified on chart.



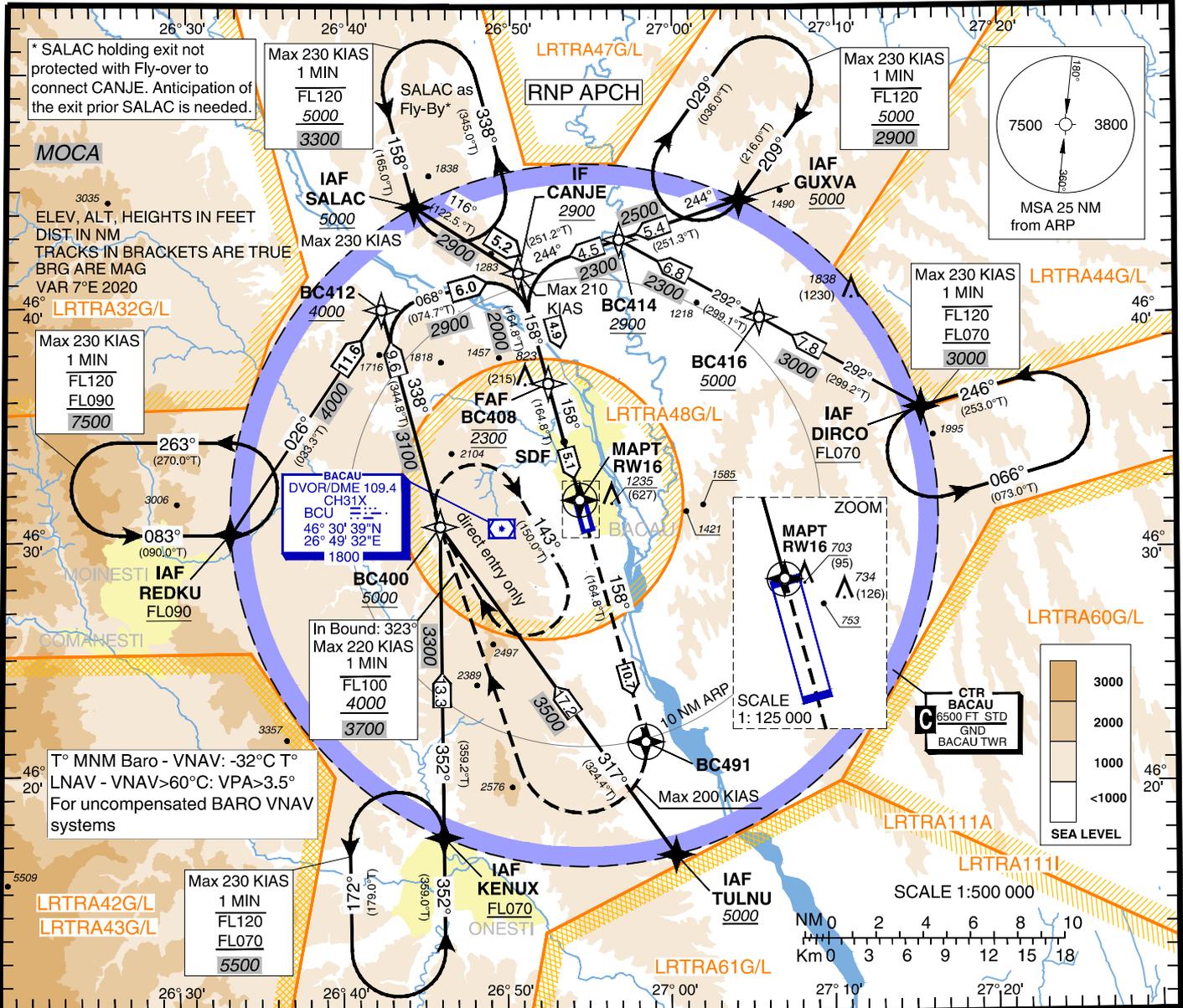
INSTRUMENT APPROACH CHART - ICAO

EGNOS CH87924 E16A

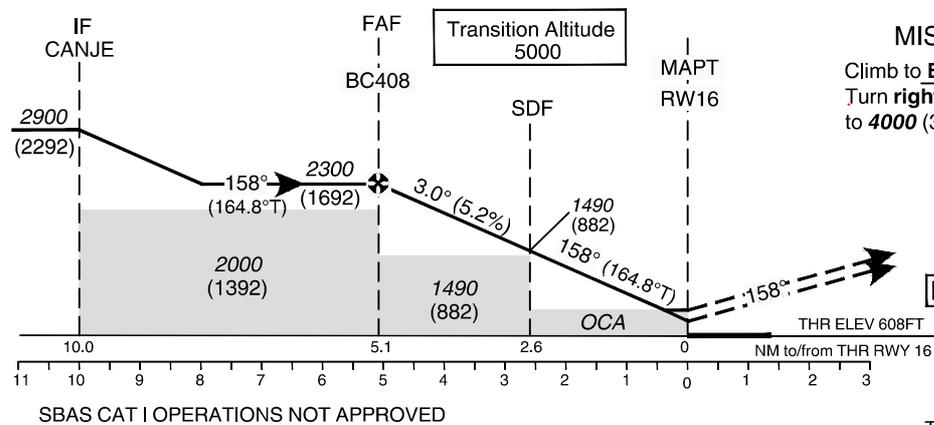
AERODROME ELEV. 608 ft
HEIGHTS RELATED TO THR RWY 16 - ELEV 608 ft

BACAU TOWER 120.980
BACAU TOWER ALTN 118.600

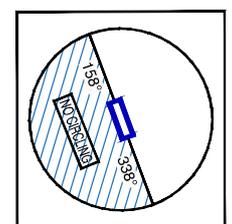
BACĂU / George Enescu (LRBC) RNP RWY 16



New chart.



MISSED APPROACH:
Climb to **BC491** on course **158°**.
Turn **right** direct to **BC400** (Max **200 KIAS**) climbing to **4000** (3392) and hold or follow ATC instructions.



OCA (H)	A	B	C	D
LPV	840 (232)	850 (242)	860 (252)	870 (262)
LNAV/VNAV	850 (242)	860 (252)	880 (272)	910 (302)
LNAV	950 (342)	980 (372)	1000 (392)	1000 (392)
LNAV w/o SDF	1490 (882)			
Circling (1)	1820		1980	

GS	KIAS	70	90	100	120	140	160
FAF-MAPT 5.1 NM	min:s	4:25	3:26	3:05	2:34	2:12	1:56
Rate of descent (5.24%)	ft/min	372	478	531	637	743	849

Dist to THR	NM	5	4	3	2
Altitudes (Heights)	FT	2250 (1642)	1940 (1332)	1620 (1012)	1300 (692)

(1) Circling West of airport prohibited.

Timing not authorized for defining the MAPt.
For data tabulation see verso.

BACĂU / George Enescu (LRBC)
RNP RWY 16

AERONAUTICAL DATA TABULATION

LNAV, LNAV/VNAV and LPV approach to RWY16	
Fix/Point	Coordinates
DIRCO (IAF) – BRG 066.17° / 18.55NM BCU	46°35'58.0"N 027°15'17.0"E
GUXVA (IAF) – BRG 028.29° / 17.36NM BCU	46°44'48.0"N 027°04'07.0"E
KENUX (IAF) – BRG 183.38° / 13.34NM BCU	46°17'32.0"N 026°46'04.0"E
REDKU (IAF) – BRG 261.82° / 11.47NM BCU	46°30'24.0"N 026°32'56.0"E
SALAC (IAF) – BRG 337.90° / 14.30NM BCU	46°44'27.0"N 026°44'07.0"E
TULNU (IAF) – BRG 144.69° / 15.70NM BCU	46°16'50.0"N 027°00'16.0"E
CANJE (IF)	46°41'37.9"N 026°50'32.6"E
BC400 (IAF)	46°30'47.6"N 026°45'47.2"E
BC408 (FAF)	46°36'55.7"N 026°52'24.0"E
BC412	46°40'03.2"N 026°42'08.2"E
BC414	46°43'05.0"N 026°56'43.9"E
BC416	46°39'47.0"N 027°05'22.1"E
BC491	46°21'38.5"N 026°58'24.0"E
SDF	46°34'28.4"N 026°53'22.1"E
RW16 (MAPT)	46°31'57.93"N 026°54'21.29"E

TEMPORARY RESERVED AREAS (TRA)			
Identification	Vertical limits	Identification	Vertical limits
LRTRA32G	GND – FL95	LRTRA47L	5000 FT AMSL – FL200
LRTRA32L	FL95 – FL200	LRTRA48G	GND – 5500 FT AMSL
LRTRA42G	GND – FL85	LRTRA48L	5500 FT AMSL – FL200
LRTRA42L	FL85 – FL200	LRTRA60G	GND – 5000 FT AMSL
LRTRA43G	GND – FL90	LRTRA60L	5000 FT AMSL – FL200
LRTRA43L	FL90 – FL200	LRTRA61G	GND – FL65
LRTRA44G	GND – 5000 FT AMSL	LRTRA61L	FL65 – FL200
LRTRA44L	5000 FT AMSL – FL200	LRTRA111A	FL65 – FL280
LRTRA47G	GND – 5000 FT AMSL	LRTRA111I	FL65 – FL280

RADIO COMMUNICATION FAILURE

- If RNP RWY16 instrument approach procedure was assigned or received by ATC, set transponder 7600, proceed according assigned or designated RNP RWY16 instrument approach procedure. Descending shall be executed in accordance with vertical restrictions specified on chart.
- If RNP RWY16 instrument approach procedure was not assigned or received by ATC, for arrivals via REDKU / SALAC / GUXVA / DIRCO / KENUX: set transponder 7600, proceed according to FPL to CTR entry point (REDKU / SALAC / GUXVA / DIRCO / KENUX) and hold at least 6 minutes, then continue the RNP RWY16 approach. Descending shall be executed in accordance with vertical restrictions specified on chart.
- If RNP RWY16 instrument approach procedure was not assigned or received by ATC, for arrivals via TULNU: set transponder 7600, proceed according to FPL to BC400 and hold at least 6 minutes, then continue the RNP RWY16 approach. Descending shall be executed in accordance with vertical restrictions specified on chart.

**BACĂU / George Enescu (LRBC)
RNP RWY 16****Procedure Coding**

Serial No	APP ID	Path Descriptor	Waypoint ID	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kts)	V _P A/TCH (°/ft)	NAV SPEC
010	RNP16	IF	GUXVA			7.0E			+5000			RNP APCH
020	RNP16	TF	BC414		244 (251.3)	7.0E	5.4		+2900			RNP APCH
030	RNP16	TF	CANJE		244 (251.2)	7.0E	4.5		+2900	-210		RNP APCH
010	RNP16	IF	SALAC			7.0E			+5000	-230		RNP APCH
020	RNP16	TF	CANJE		116 (122.5)	7.0E	5.2		+2900	-210		RNP APCH
010	RNP16	IF	DIRCO			7.0E			+FL70			RNP APCH
020	RNP16	TF	BC416		292 (299.2)	7.0E	7.8		+5000			RNP APCH
030	RNP16	TF	BC414		292 (299.1)	7.0E	6.8		+2900			RNP APCH
040	RNP16	TF	CANJE		244 (251.2)	7.0E	4.5		+2900	-210		RNP APCH
010	RNP16	IF	TULNU			7.0E			+5000			RNP APCH
020	RNP16	TF	BC400		317 (324.4)	7.0E	17.2		+4000			RNP APCH
030	RNP16	TF	BC412		338 (344.8)	7.0E	9.6		+4000			RNP APCH
040	RNP16	TF	CANJE		068 (074.7)	7.0E	6.0		+2900	-210		RNP APCH
010	RNP16	IF	KENUX			7.0E			+FL070			RNP APCH
020	RNP16	TF	BC400		352 (359.2)	7.0E	13.3		+4000			RNP APCH
030	RNP16	TF	BC412		338 (344.8)	7.0E	9.6		+4000			RNP APCH
040	RNP16	TF	CANJE		068 (074.7)	7.0E	6.0		+2900	-210		RNP APCH
010	RNP16	IF	REDKU			7.0E			+FL090			RNP APCH
020	RNP16	TF	BC412		026 (033.3)	7.0E	11.6		+4000			RNP APCH
030	RNP16	TF	CANJE		068 (074.7)	7.0E	6.0		+2900	-210		RNP APCH
010	RNP16	IF	BC400			7.0E			+4000			RNP APCH
020	RNP16	TF	BC412		338 (344.8)	7.0E	9.6		+4000			RNP APCH
030	RNP16	TF	CANJE		068 (074.7)	7.0E	6.0		+2900	-210		RNP APCH
010	RNP16	IF	CANJE			7.0E			+2900	-210		RNP APCH
020	RNP16	TF	BC408		158 (164.8)	7.0E	4.9		@2300			RNP APCH
030	RNP16	TF	RW16	Y	158 (164.8)	7.0E	5.1		@662		-3/54	RNP APCH
010	RNP16	TF	BC491	Y	158 (164.8)	7.0E	10.7					RNP APCH
020	RNP16	DF	BC400			7.0E		R	+4000	-200		RNP APCH



**BACĂU / George Enescu (LRBC)
RNP RWY 16**

LPV FAS DB

Input Data	
Parameters	Values
Operation Type	0
SBAS Provider	1 (EGNOS)
Airport Identifier	LRBC
Runway	16
Runway Letter	0 (None)
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E16A
LTP/FTP Latitude	463157.9335N
LTP/FTP Longitude	0265421.2850E
LTP/FTP Ellipsoidal Height (metres)	218.5
FPAP Latitude	463039.7855N
Delta FPAP Latitude (seconds)	-78.1480
FPAP Longitude	0265451.9935E
Delta FPAP Longitude (seconds)	30.7085
Threshold Crossing Height	54.0
TCH Units Selector	0 (feet)
Glidepath Angle (degrees)	3.00
Course Width (metres)	105.00
Length Offset (metres)	0
HAL (metres)	40.0
VAL (metres)	50.0

Output Data

Data Block	10 03 02 12 0C 10 00 00 01 36 31 05 DB 3D F8 13 CA F8 8B 0B 89 1C 78 9D FD E9 EF 00 1C 02 2C 01 64 00 C8 FA F1 DB 36 D6
Calculated CRC Value	F1DB36D6



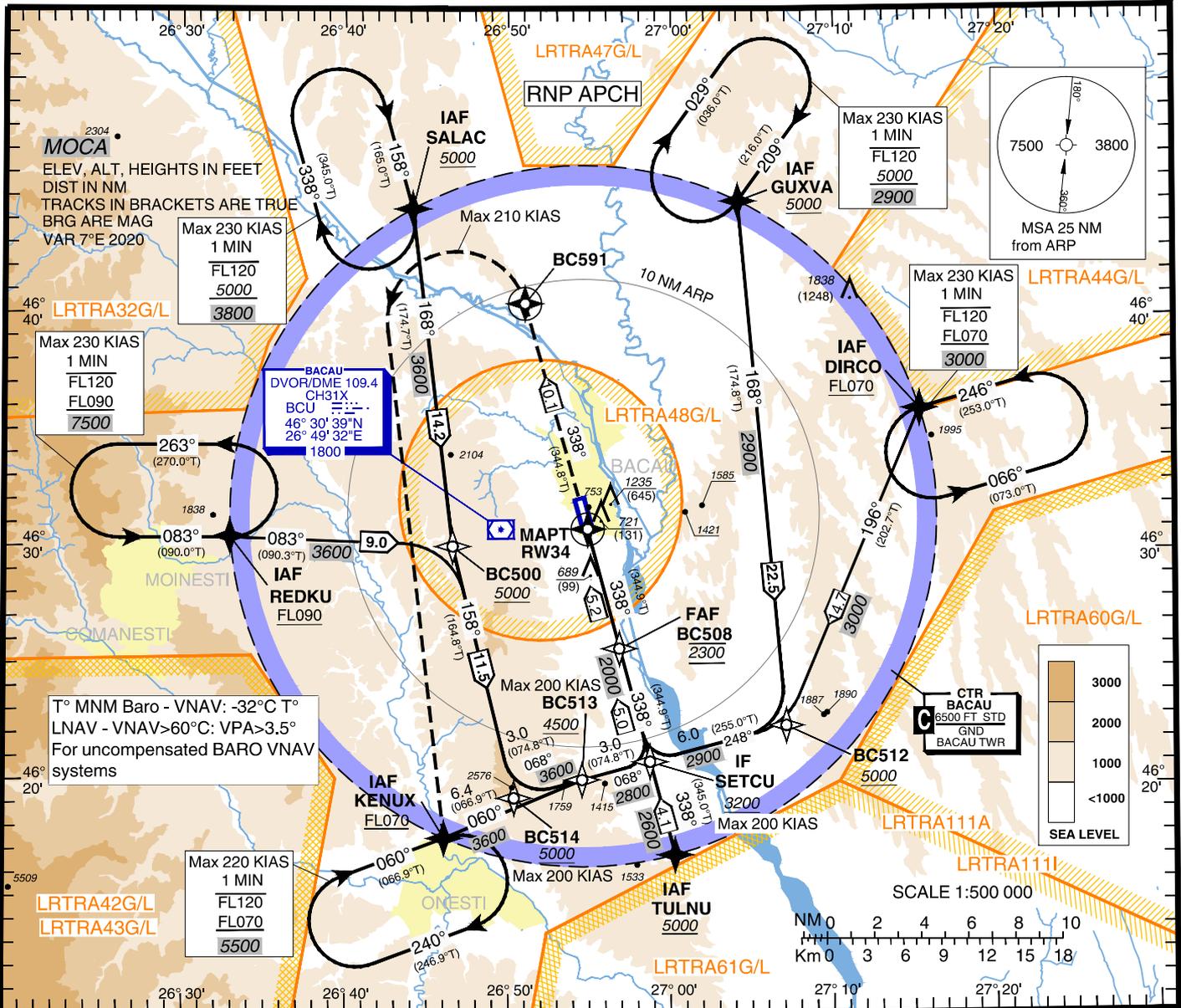
INSTRUMENT APPROACH CHART - ICAO

EGNOS CH66817 E34A

AERODROME ELEV. 608 ft
HEIGHTS RELATED TO THR RWY 34 - ELEV 590 ft

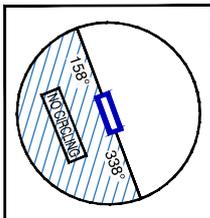
BACAU TOWER 120.980
BACAU TOWER ALTN 118.600

BACĂU / George Enescu (LRBC) RNP RWY 34

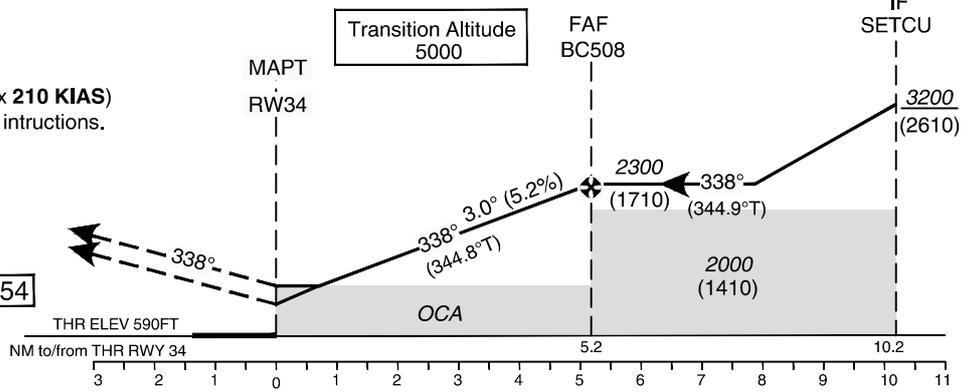


MISSED APPROACH:

Climb to **BC591** on course **338° M**.
At **BC591**, turn **left** direct to **KENUX** (Max 210 KIAS) climbing to **FL070** and hold or follow ATC instructions.



RDH 54



SBAS CAT I OPERATIONS NOT APPROVED

Timing not authorized for defining the MAPt.

OCA (H)		A	B	C	D
LPV	MACG 2.5%	857 (267)	870 (280)	878 (288)	888 (298)
	MACG 3.0%	811 (221)	823 (233)	832 (242)	842 (252)
LNAV/VNAV	MACG 2.5%	960 (370)	970 (380)	990 (400)	1020 (430)
	MACG 3.0%	820 (230)	830 (240)	850 (260)	
LNAV	MACG 2.5%	990 (400)	1020 (430)	1040 (450)	1060 (470)
	MACG 3.0%	940 (350)			
Circling (1)		1820		1980	

GS	KIAS	70	90	100	120	140	160
FAF-MAPT 5.2 NM	min:s	4:27	3:28	3:07	2:36	2:14	1:57
Rate of descent (5.24%)	ft/min	372	478	531	637	743	849
Dist to THR	NM	1	2	3	4	5	
Altitudes (Heights)	FT	960 (370)	1280 (690)	1600 (1010)	1920 (1330)	2240 (1650)	

(1) Circling West of airport prohibited.

For data tabulation see verso.

BACĂU / George Enescu (LRBC)
RNP RWY 34

AERONAUTICAL DATA TABULATION

LNAV, LNAV/VNAV and LPV approach to RWY34	
Fix/Point	Coordinates
DIRCO (IAF) – BRG 066.17° / 18.55NM BCU	46°35'58.0"N 027°15'17.0"E
GUXVA (IAF) – BRG 028.29° / 17.36NM BCU	46°44'48.0"N 027°04'07.0"E
KENUX (IAF) – BRG 183.38° / 13.34NM BCU	46°17'32.0"N 026°46'04.0"E
REDKU (IAF) – BRG 261.82° / 11.47NM BCU	46°30'24.0"N 026°32'56.0"E
SALAC (IAF) – BRG 337.90° / 14.30NM BCU	46°44'27.0"N 026°44'07.0"E
TULNU (IAF) – BRG 144.69° / 15.70NM BCU	46°16'50.0"N 027°00'16.0"E
SETCU (IF)	46°20'49.2"N 026°58'43.2"E
BC500	46°30'20.6"N 026°46'01.1"E
BC508 (FAF)	46°25'38.7"N 026°56'50.1"E
BC512	46°22'23.0"N 027°07'05.1"E
BC513	46°20'02.1"N 026°54'32.5"E
BC514	46°19'14.9"N 026°50'21.9"E
BC591	46°40'24.4"N 026°51'01.7"E
RW34 (MAPT)	46°30'39.79"N 026°54'51.99"E

TEMPORARY RESERVED AREAS (TRA)			
Identification	Vertical limits	Identification	Vertical limits
LRTRA32G	GND – FL95	LRTRA47L	5000 FT AMSL – FL200
LRTRA32L	FL95 – FL200	LRTRA48G	GND – 5500 FT AMSL
LRTRA42G	GND – FL85	LRTRA48L	5500 FT AMSL – FL200
LRTRA42L	FL85 – FL200	LRTRA60G	GND – 5000 FT AMSL
LRTRA43G	GND – FL90	LRTRA60L	5000 FT AMSL – FL200
LRTRA43L	FL90 – FL200	LRTRA61G	GND – FL65
LRTRA44G	GND – 5000 FT AMSL	LRTRA61L	FL65 – FL200
LRTRA44L	5000 FT AMSL – FL200	LRTRA111A	FL65 – FL280
LRTRA47G	GND – 5000 FT AMSL	LRTRA111I	FL65 – FL280

RADIO COMMUNICATION FAILURE

- a) If RNP RWY 34 instrument approach procedure was assigned or received by ATC, set transponder 7600, proceed according assigned or designated RNP RWY 34 instrument approach procedure. Descending shall be executed in accordance with vertical restrictions specified on chart.
- b) If RNP RWY 34 instrument approach procedure was not assigned or received by ATC, for arrivals via REDKU / SALAC / GUXVA / DIRCO / KENUX: set transponder 7600, proceed according to FPL to CTR entry point (REDKU / SALAC / GUXVA / DIRCO / KENUX) and hold at least 6 minutes, then continue the RNP RWY 34 approach. Descending shall be executed in accordance with vertical restrictions specified on chart.
- c) If RNP RWY 34 instrument approach procedure was not assigned or received by ATC, for arrivals via TULNU:
 - c1) if no hold is required in order to comply with the expected approach time last received and acknowledged or the estimated time of arrival, set transponder 7600, proceed according RNP RWY 34 instrument approach procedure. Descending shall be executed in accordance with vertical restrictions specified on chart.
 - c2) if a hold is required in order to comply with the expected approach time last received and acknowledged or the estimated time of arrival, RNP RWY 34 is not authorised, please follow ILS RWY 34 or NDB RWY 34 and the associated RCF instructions.

**BACĂU / George Enescu (LRBC)
RNP RWY 34****Procedure Coding**

Serial No	APP ID	Path Descriptor	Waypoint ID	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kts)	V _P A/TC H (°/ft)	NAV SPEC
010	RNP34	IF	REDKU			7.0E			+FL090			RNP APCH
020	RNP34	TF	BC500		083 (090.3)	7.0E	9.0		+5000			RNP APCH
030	RNP34	TF	BC514		158 (164.8)	7.0E	11.5		+5000	-200		RNP APCH
040	RNP34	TF	BC513		068 (074.8)	7.0E	3.0		+4500	-200		RNP APCH
050	RNP34	TF	SETCU		068 (074.8)	7.0E	3.0		+3200	-200		RNP APCH
010	RNP34	IF	TULNU			7.0E			+5000			RNP APCH
020	RNP34	TF	SETCU		338 (345.0)	7.0E	4.1		+3200	-200		RNP APCH
010	RNP34	IF	SALAC			7.0E			+5000			RNP APCH
020	RNP34	TF	BC500		168 (174.7)	7.0E	14.2		+5000			RNP APCH
030	RNP34	TF	BC514		158 (164.8)	7.0E	11.5		+5000	-200		RNP APCH
040	RNP34	TF	BC513		068 (074.8)	7.0E	3.0		+4500	-200		RNP APCH
050	RNP34	TF	SETCU		068 (074.8)	7.0E	3.0		+3200	-200		RNP APCH
010	RNP34	IF	KENUX			7.0E			+FL70			RNP APCH
020	RNP34	TF	BC513		060 (066.9)	7.0E	6.4		+4500	-200		RNP APCH
030	RNP34	TF	SETCU		068 (074.8)	7.0E	3.0		+3200	-200		RNP APCH
010	RNP34	IF	GUXVA			7.0E			+5000			RNP APCH
020	RNP34	TF	BC512		168 (174.8)	7.0E	22.5		+5000			RNP APCH
030	RNP34	TF	SETCU		248 (255.0)	7.0E	6.0		+3200	-200		RNP APCH
010	RNP34	IF	DIRCO			7.0E			+FL070			RNP APCH
020	RNP34	TF	BC512		196 (202.7)	7.0E	14.7		+5000			RNP APCH
030	RNP34	TF	SETCU		248 (255.0)	7.0E	6.0		+3200	-200		RNP APCH
010	RNP34	IF	SETCU			7.0E			+3200	-200		RNP APCH
020	RNP34	TF	BC508		338 (344.9)	7.0E	5.0		@2300			RNP APCH
030	RNP34	TF	RW34	Y	338 (344.9)	7.0E	5.2		@644		-3/54	RNP APCH
010	RNP34	TF	BC591	Y	338 (344.9)	7.0E	10.1					RNP APCH
020	RNP34	DF	KENUX			7.0E		L	+FL070	-210		RNP APCH



**BACĂU / George Enescu (LRBC)
RNP RWY 34**

LPV FAS DB

Input Data	
Parameters	Values
Operation Type	0
SBAS Provider	1 (EGNOS)
Airport Identifier	LRBC
Runway	34
Runway Letter	0 (None)
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E34A
LTP/FTP Latitude	463039.7855N
LTP/FTP Longitude	0265451.9935E
LTP/FTP Ellipsoidal Height (metres)	213.0
FPAP Latitude	463157.9345N
Delta FPAP Latitude (seconds)	78.1490
FPAP Longitude	0265421.2845E
Delta FPAP Longitude (seconds)	-30.7090
Threshold Crossing Height	54.0
TCH Units Selector	0 (feet)
Glidepath Angle (degrees)	3.00
Course Width (metres)	105.00
Length Offset (metres)	0
HAL (metres)	40.0
VAL (metres)	50.0

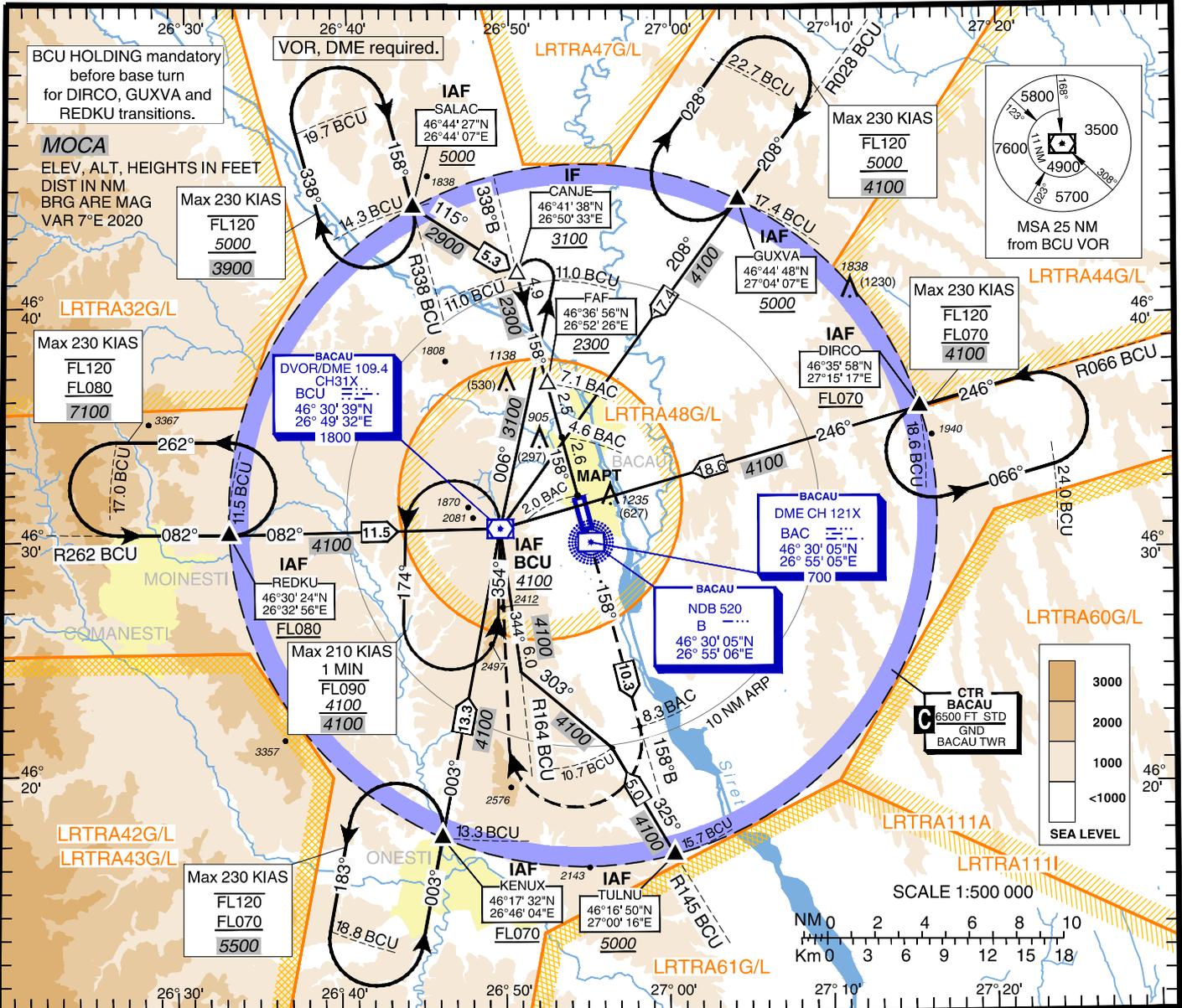
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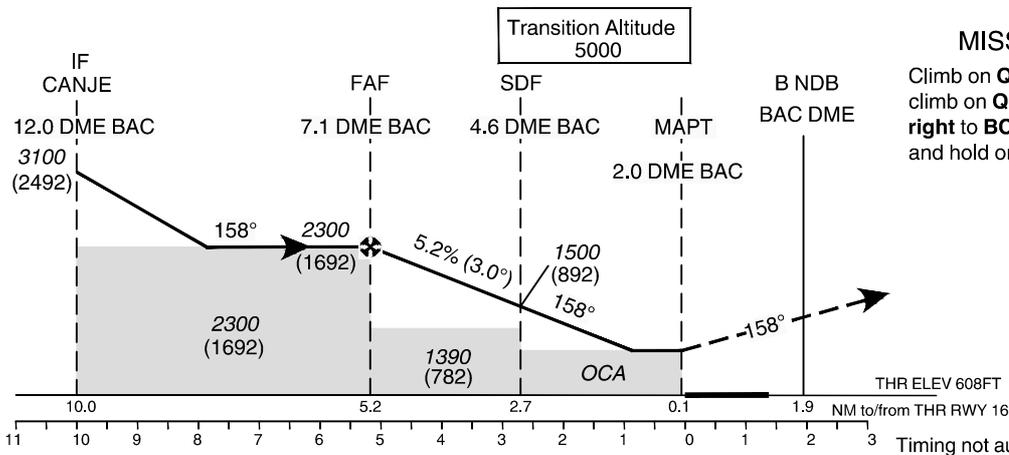
BACĂU / George Enescu (LRBC)
NDB Z RWY 16

INSTRUMENT APPROACH AERODROME ELEV. 608 ft
CHART - ICAO HEIGHTS RELATED TO AD ELEV

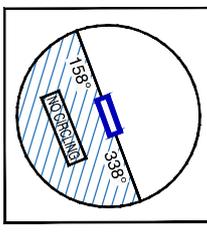
BACAU TOWER 120.980
BACAU TOWER ALTN 118.600



Changes: New procedure.



OCA(H)		MACG	A	B
Straight-in Approach	with SDF	2.5%	1320 (712)	1350 (742)
		3.0%	1290 (682)	1300 (692)
	w/o SDF		1390 (782)	
Circling (1)			1820	



GS	KIAS	70	90	100	120	140	160
FAF-MAPT 5.1 NM	min:s	4:22	3:24	3:04	2:33	2:11	1:55
Rate of descent (5.25%)	ft/min	372	478	532	638	744	851
Dist to BAC DME	NM	7	6	5	4		
Altitudes (Heights)	FT	2270 (1662)	1950 (1342)	1630 (1022)	1310 (702)		

(1) Circling West of airport prohibited.

For data tabulation see verso.

BACĂU / George Enescu (LRBC)
NDB Z RWY 16

AERONAUTICAL DATA TABULATION

NDB approach to RWY 16	
Fix/Point	Coordinates
DIRCO (IAF) – BRG 066.17° / 18.55NM BCU	46°35'58.0"N 027°15'17.0"E
GUXVA (IAF) – BRG 028.29° / 17.36NM BCU	46°44'48.0"N 027°04'07.0"E
KENUX (IAF) – BRG 183.38° / 13.34NM BCU	46°17'32.0"N 026°46'04.0"E
REDKU (IAF) – BRG 261.82° / 11.47NM BCU	46°30'24.0"N 026°32'56.0"E
SALAC (IAF) – BRG 337.90° / 14.30NM BCU	46°44'27.0"N 026°44'07.0"E
TULNU (IAF) – BRG 144.69° / 15.70NM BCU	46°16'50.0"N 027°00'16.0"E
BCU VORDME (IAF)	46°30'39.3"N 026°49'32.0"E
B NDB	46°30'05.2"N 026°55'05.6"E
BAC DME	46°30'05.0"N 026°55'05.0"E
BRG 144.69° / 10.7NM BCU	46°21'14.1"N 026°56'51.6"E
BRG 164.00° / 6NM BCU	46°24'43.9"N 026°50'53.4"E
CANJE (IF) – BRG 338° B / 11.0 BCU	46°41'37.9"N 026°50'32.6"E
FAF – BRG 338° B / 7.1 BAC	46°36'56.4"N 026°52'25.7"E
SDF – BRG 338° B / 4.6 BAC	46°34'31.6"N 026°53'22.1"E
MAPT – BRG 338° B / 2.0 BAC	46°32'01.0"N 026°54'20.6"E
THR 16	46°31'57.93"N 026°54'21.29"E
BRG 158° B / 8.3 BAC	46°22'04.2"N 026°58'11.7"E

Final approach descent angle: 5.2% (3.00°)

TEMPORARY RESERVED AREAS (TRA)			
Identification	Vertical limits	Identification	Vertical limits
LRTRA32G	GND – FL95	LRTRA47L	5000 FT AMSL – FL200
LRTRA32L	FL95 – FL200	LRTRA48G	GND – 5500 FT AMSL
LRTRA42G	GND – FL85	LRTRA48L	5500 FT AMSL – FL200
LRTRA42L	FL85 – FL200	LRTRA60G	GND – 5000 FT AMSL
LRTRA43G	GND – FL90	LRTRA60L	5000 FT AMSL – FL200
LRTRA43L	FL90 – FL200	LRTRA61G	GND – FL65
LRTRA44G	GND – 5000 FT AMSL	LRTRA61L	FL65 – FL200
LRTRA44L	5000 FT AMSL – FL200	LRTRA111A	FL65 – FL280
LRTRA47G	GND – 5000 FT AMSL	LRTRA111I	FL65 – FL280

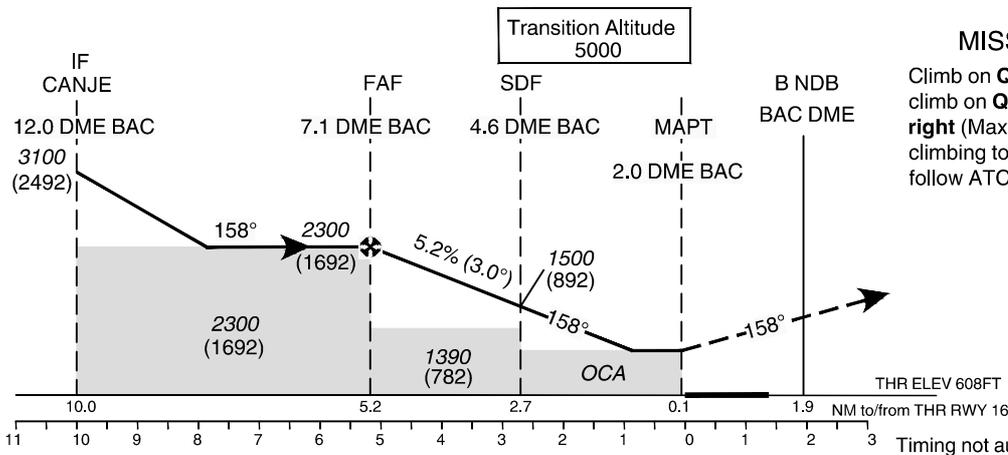
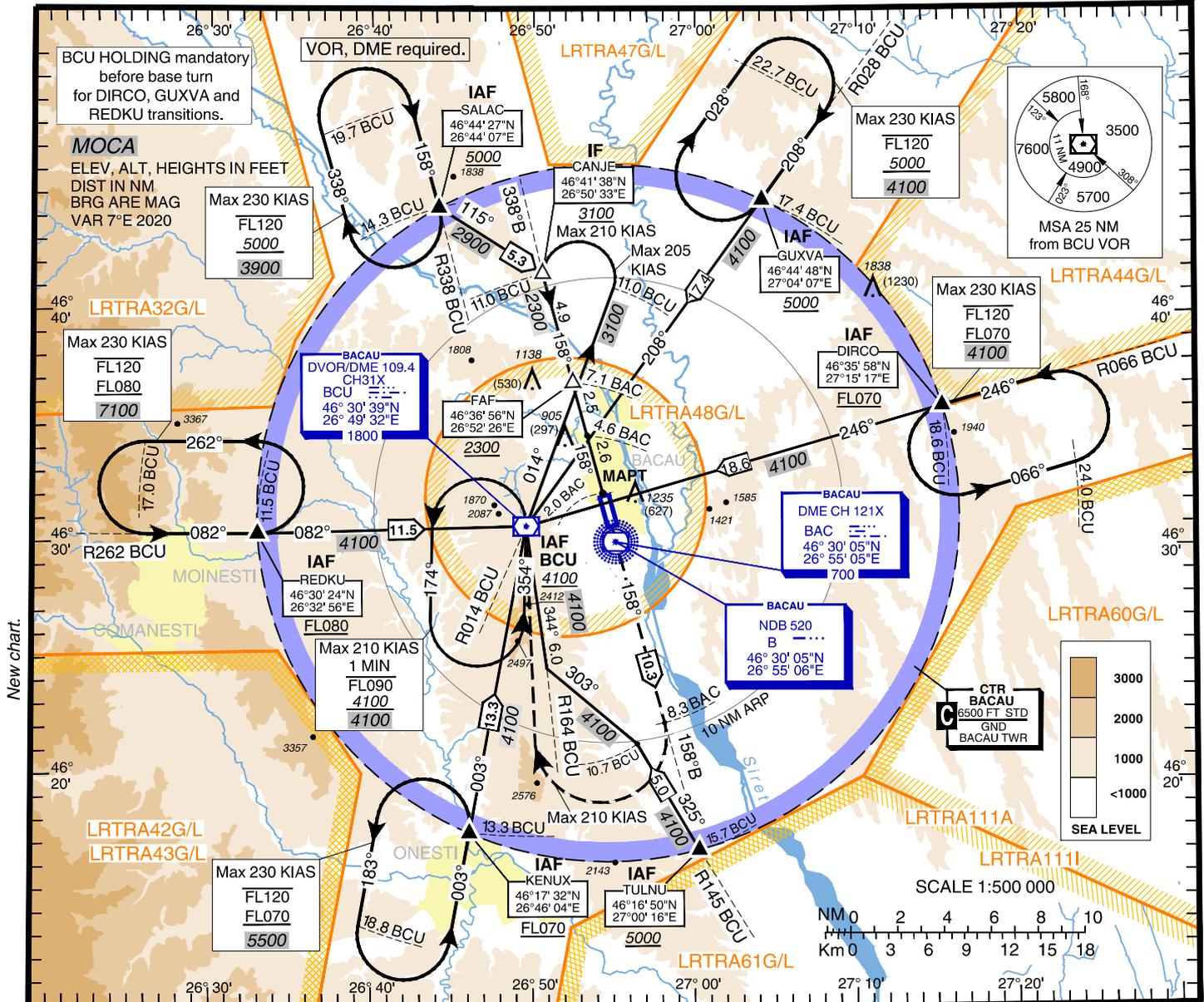
RADIO COMMUNICATION FAILURE

- If NDB RWY16 instrument approach procedure was assigned or received by ATC, set transponder 7600, proceed according assigned or designated NDB RWY16 instrument approach procedure. Descending shall be executed in accordance with vertical restrictions specified on chart.
- If NDB RWY16 instrument approach procedure was not assigned or received by ATC, for arrivals via REDKU / SALAC / GUXVA / DIRCO / KENUX: set transponder 7600, proceed according to FPL to CTR entry point (REDKU / SALAC / GUXVA / DIRCO / KENUX) and hold at least 6 minutes, then continue the NDB RWY16 approach. Descending shall be executed in accordance with vertical restrictions specified on chart.
- If NDB RWY16 instrument approach procedure was not assigned or received by ATC, for arrivals via TULNU: set transponder 7600, proceed according to FPL to proceed according to FPL to CTR entry point TULNU, then BCU VOR and hold at least 6 minutes, then continue the NDB RWY16 approach. Descending shall be executed in accordance with vertical restrictions specified on chart.

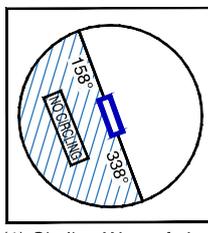
BACĂU / George Enescu (LRBC)
NDB Y RWY 16

INSTRUMENT APPROACH AERODROME ELEV. 608 ft
CHART - ICAO HEIGHTS RELATED TO AD ELEV

BACAU TOWER 120.980
BACAU TOWER ALTN 118.600



OCA(H)		MACG	C	D
Straight-in Approach	with SDF	2.5%	1370 (762)	1390 (782)
		3.0%	1310 (702)	1310 (702)
	w/o SDF		1390 (782)	
Circling (1)			1820	1980



GS	KIAS	70	90	100	120	140	160
FAF-MAPT 5.1 NM	min:s	4:22	3:24	3:04	2:33	2:11	1:55
Rate of descent (5.25%)	ft/min	372	478	532	638	744	851
Dist to BAC DME	NM	7	6	5	4		
Altitudes (Heights)	FT	2270 (1662)	1950 (1342)	1630 (1022)	1310 (702)		

(1) Circling West of airport prohibited.

For data tabulation see verso.

**BACĂU / George Enescu (LRBC)
NDB Y RWY 16****AERONAUTICAL DATA TABULATION**

NDB approach to RWY 16	
Fix/Point	Coordinates
DIRCO (IAF) – BRG 066.17° / 18.55NM BCU	46°35'58.0"N 027°15'17.0"E
GUXVA (IAF) – BRG 028.29° / 17.36NM BCU	46°44'48.0"N 027°04'07.0"E
KENUX (IAF) – BRG 183.38° / 13.34NM BCU	46°17'32.0"N 026°46'04.0"E
REDKU (IAF) – BRG 261.82° / 11.47NM BCU	46°30'24.0"N 026°32'56.0"E
SALAC (IAF) – BRG 337.90° / 14.30NM BCU	46°44'27.0"N 026°44'07.0"E
TULNU (IAF) – BRG 144.69° / 15.70NM BCU	46°16'50.0"N 027°00'16.0"E
BCU VORDME (IAF)	46°30'39.3"N 026°49'32.0"E
B NDB	46°30'05.2"N 026°55'05.6"E
BAC DME	46°30'05.0"N 026°55'05.0"E
BRG 144.69° / 10.7NM BCU	46°21'14.1"N 026°56'51.6"E
BRG 164.00° / 6NM BCU	46°24'43.9"N 026°50'53.4"E
CANJE (IF) – BRG 338° B / 11.0 BCU	46°41'37.9"N 026°50'32.6"E
FAF – BRG 338° B / 7.1 BAC	46°36'56.4"N 026°52'25.7"E
SDF – BRG 338° B / 4.6 BAC	46°34'31.6"N 026°53'22.1"E
MAPT – BRG 338° B / 2.0 BAC	46°32'01.0"N 026°54'20.6"E
THR 16	46°31'57.93"N 026°54'21.29"E
BRG 158° B / 8.3 BAC	46°22'04.2"N 026°58'11.7"E

Final approach descent angle: 5.2% (3.00°)

TEMPORARY RESERVED AREAS (TRA)			
Identification	Vertical limits	Identification	Vertical limits
LRTRA32G	GND – FL95	LRTRA47L	5000 FT AMSL – FL200
LRTRA32L	FL95 – FL200	LRTRA48G	GND – 5500 FT AMSL
LRTRA42G	GND – FL85	LRTRA48L	5500 FT AMSL – FL200
LRTRA42L	FL85 – FL200	LRTRA60G	GND – 5000 FT AMSL
LRTRA43G	GND – FL90	LRTRA60L	5000 FT AMSL – FL200
LRTRA43L	FL90 – FL200	LRTRA61G	GND – FL65
LRTRA44G	GND – 5000 FT AMSL	LRTRA61L	FL65 – FL200
LRTRA44L	5000 FT AMSL – FL200	LRTRA111A	FL65 – FL280
LRTRA47G	GND – 5000 FT AMSL	LRTRA111I	FL65 – FL280

RADIO COMMUNICATION FAILURE

- If NDB RWY16 instrument approach procedure was assigned or received by ATC, set transponder 7600, proceed according assigned or designated NDB RWY16 instrument approach procedure. Descending shall be executed in accordance with vertical restrictions specified on chart.
- If NDB RWY16 instrument approach procedure was not assigned or received by ATC, for arrivals via REDKU / SALAC / GUXVA / DIRCO / KENUX: set transponder 7600, proceed according to FPL to CTR entry point (REDKU / SALAC / GUXVA / DIRCO / KENUX) and hold at least 6 minutes, then continue the NDB RWY16 approach. Descending shall be executed in accordance with vertical restrictions specified on chart.
- If NDB RWY16 instrument approach procedure was not assigned or received by ATC, for arrivals via TULNU: set transponder 7600, proceed according to FPL to proceed according to FPL to CTR entry point TULNU, then BCU VOR and hold at least 6 minutes, then continue the NDB RWY16 approach. Descending shall be executed in accordance with vertical restrictions specified on chart.

**BACĂU / George Enescu (LRBC)
NDB Z RWY 34****AERONAUTICAL DATA TABULATION**

NDB approach to RWY 34	
Fix/Point	Coordinates
DIRCO (IAF) – BRG 066.17° / 18.55NM BCU	46°35'58.0"N 027°15'17.0"E
GUXVA (IAF) – BRG 028.29° / 17.36NM BCU	46°44'48.0"N 027°04'07.0"E
KENUX (IAF) – BRG 183.38° / 13.34NM BCU	46°17'32.0"N 026°46'04.0"E
REDKU (IAF) – BRG 261.82° / 11.47NM BCU	46°30'24.0"N 026°32'56.0"E
SALAC (IAF) – BRG 337.90° / 14.30NM BCU	46°44'27.0"N 026°44'07.0"E
TULNU (IAF) – BRG 144.69° / 15.70NM BCU	46°16'50.0"N 027°00'16.0"E
BCU VORDME (IAF)	46°30'39.3"N 026°49'32.0"E
B NDB	46°30'05.2"N 026°55'05.6"E
BAC DME	46°30'05.0"N 026°55'05.0"E
BRG 158° / 11.7NM BCU	46°19'21.4"N 026°53'54.2"E
BRG 183.38° / 11.7NM BCU	46°19'09.0"N 026°46'29.5"E
SETCU (IF) – BRG 158° B / 11.7 BCU	46°20'49.2"N 026°58'43.2"E
FAF – BRG 158° B / 4.6 BAC	46°25'38.6"N 026°56'48.9"E
MAPT (B NDB)	46°30'05.2"N 026°55'05.6"E
THR 34	46°30'39.79"N 026°54'51.99"E
BRG 338° B / 10.7 BAC	46°40'24.9"N 026°51'04.3"E

Final approach descent angle: 5.3% (3.01°)

TEMPORARY RESERVED AREAS (TRA)			
Identification	Vertical limits	Identification	Vertical limits
LRTRA32G	GND – FL95	LRTRA47L	5000 FT AMSL – FL200
LRTRA32L	FL95 – FL200	LRTRA48G	GND – 5500 FT AMSL
LRTRA42G	GND – FL85	LRTRA48L	5500 FT AMSL – FL200
LRTRA42L	FL85 – FL200	LRTRA60G	GND – 5000 FT AMSL
LRTRA43G	GND – FL90	LRTRA60L	5000 FT AMSL – FL200
LRTRA43L	FL90 – FL200	LRTRA61G	GND – FL65
LRTRA44G	GND – 5000 FT AMSL	LRTRA61L	FL65 – FL200
LRTRA44L	5000 FT AMSL – FL200	LRTRA111A	FL65 – FL280
LRTRA47G	GND – 5000 FT AMSL	LRTRA111I	FL65 – FL280

RADIO COMMUNICATION FAILURE

- a) If NDB RWY34 instrument approach procedure was assigned or received by ATC, set transponder 7600, proceed according assigned or designated NDB RWY34 instrument approach procedure. Descending shall be executed in accordance with vertical restrictions specified on chart.
- b) If NDB RWY34 instrument approach procedure was not assigned or received by ATC, for arrivals via REDKU / SALAC / GUXVA / DIRCO / KENUX: set transponder 7600, proceed according to FPL to CTR entry point (REDKU / SALAC / GUXVA / DIRCO / KENUX) and hold at least 6 minutes, then continue the NDB RWY34 approach. Descending shall be executed in accordance with vertical restrictions specified on chart
- c) If NDB RWY34 instrument approach procedure was not assigned or received by ATC, for arrivals via TULNU: set transponder 7600, proceed according to FPL to CTR entry point TULNU – IAF at min FL60, then direct to BCU VOR at or above MSA and hold at least 6 minutes, then continue the NDB RWY34 approach. Descending shall be executed in accordance with vertical restrictions specified on chart.

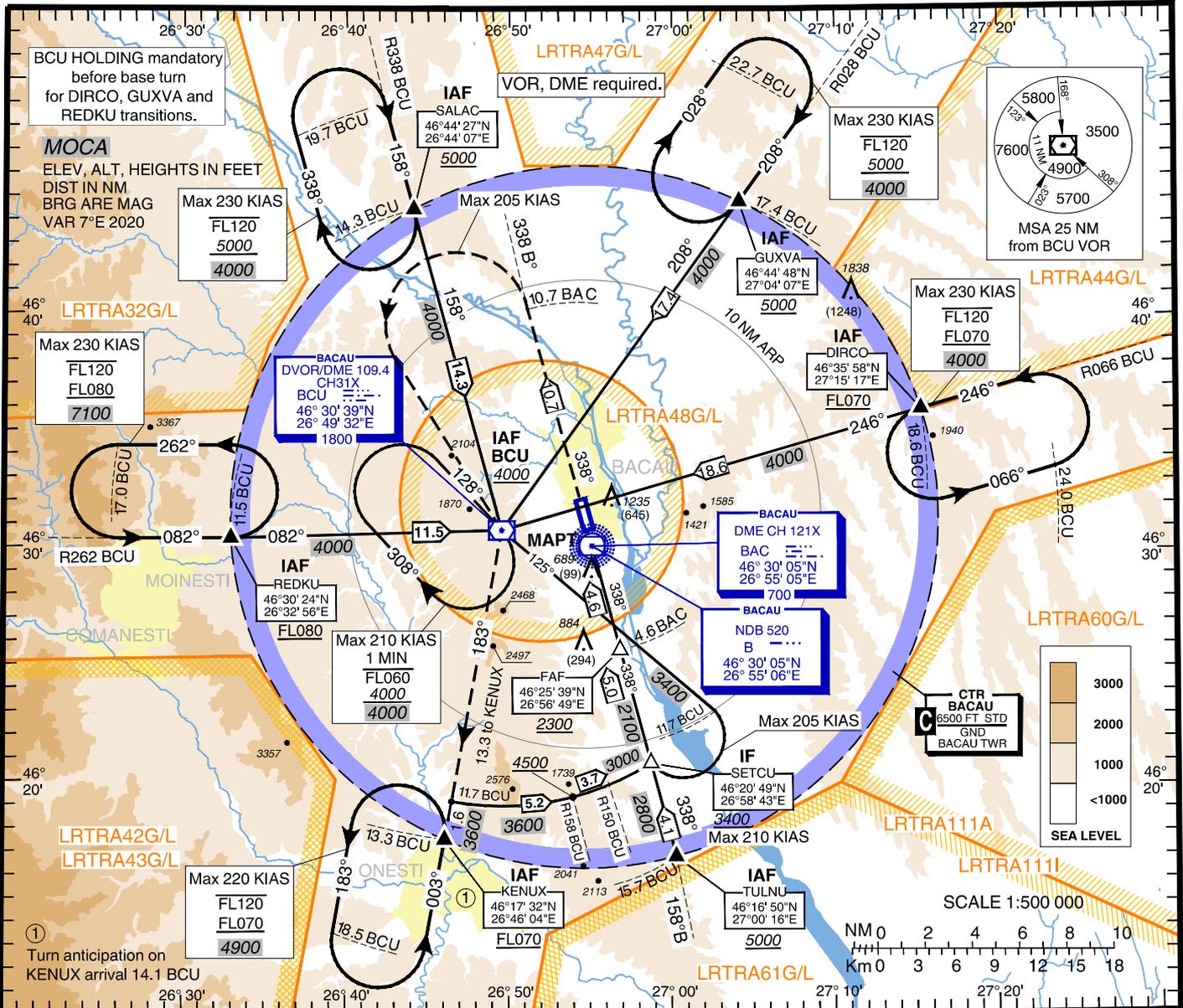


INSTRUMENT APPROACH
CHART - ICAO

AERODROME ELEV. 608 ft
HEIGHTS RELATED TO
THR RWY 34 - ELEV 590 ft

BACAU TOWER 120.980
BACAU TOWER ALTN 118.600

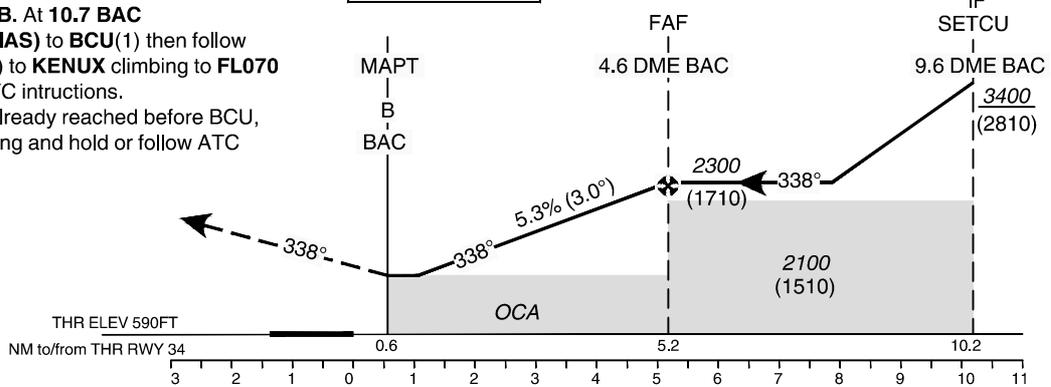
BACĂU / George Enescu (LRBC)
NDB Y RWY 34



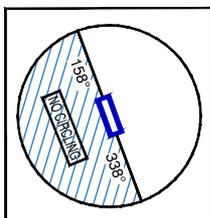
MISSED APPROACH:

Climb on **QDR 338° B**. At **10.7 BAC** turn **left (Max 205 KIAS)** to **BCU(1)** then follow **R183° BCU** (183° M) to **KENUX** climbing to **FL070** and hold or follow ATC instructions.
(1) If **4000** (3410) is already reached before BCU, then enter BCU holding and hold or follow ATC instructions

Transition Altitude
5000



OCA(H)	C	D
Straight-in Approach	1190 (600)	1210 (620)
Circling (2)	1820	1980



GS	KIAS	70	90	100	120	140	160
FAF-MAPT 4.6 NM	min:s	3:57	3:04	2:46	2:18	1:58	1:43
Rate of descent (5.26%)	ft/min	373	479	533	639	746	852

Dist to BAC DME	NM	2	3	4
Altitudes (Heights)	FT	1470 (880)	1790 (1200)	2110 (1520)

(2) Circling West of airport prohibited.

For data tabulation see verso.

**BACĂU / George Enescu (LRBC)
NDB Y RWY 34****AERONAUTICAL DATA TABULATION**

NDB approach to RWY 34	
Fix/Point	Coordinates
DIRCO (IAF) – BRG 066.17° / 18.55NM BCU	46°35'58.0"N 027°15'17.0"E
GUXVA (IAF) – BRG 028.29° / 17.36NM BCU	46°44'48.0"N 027°04'07.0"E
KENUX (IAF) – BRG 183.38° / 13.34NM BCU	46°17'32.0"N 026°46'04.0"E
REDKU (IAF) – BRG 261.82° / 11.47NM BCU	46°30'24.0"N 026°32'56.0"E
SALAC (IAF) – BRG 337.90° / 14.30NM BCU	46°44'27.0"N 026°44'07.0"E
TULNU (IAF) – BRG 144.69° / 15.70NM BCU	46°16'50.0"N 027°00'16.0"E
BCU VORDME (IAF)	46°30'39.3"N 026°49'32.0"E
B NDB	46°30'05.2"N 026°55'05.6"E
BAC DME	46°30'05.0"N 026°55'05.0"E
BRG 158° / 11.7NM BCU	46°19'21.4"N 026°53'54.2"E
BRG 183.38° / 11.7NM BCU	46°19'09.0"N 026°46'29.5"E
SETCU (IF) – BRG 158° B / 11.7 BCU	46°20'49.2"N 026°58'43.2"E
FAF – BRG 158° B / 4.6 BAC	46°25'38.6"N 026°56'48.9"E
MAPT (B NDB)	46°30'05.2"N 026°55'05.6"E
THR 34	46°30'39.79"N 026°54'51.99"E
BRG 338° B / 10.7 BAC	46°40'24.9"N 026°51'04.3"E

Final approach descent angle: 5.3% (3.01°)

TEMPORARY RESERVED AREAS (TRA)			
Identification	Vertical limits	Identification	Vertical limits
LRTRA32G	GND – FL95	LRTRA47L	5000 FT AMSL – FL200
LRTRA32L	FL95 – FL200	LRTRA48G	GND – 5500 FT AMSL
LRTRA42G	GND – FL85	LRTRA48L	5500 FT AMSL – FL200
LRTRA42L	FL85 – FL200	LRTRA60G	GND – 5000 FT AMSL
LRTRA43G	GND – FL90	LRTRA60L	5000 FT AMSL – FL200
LRTRA43L	FL90 – FL200	LRTRA61G	GND – FL65
LRTRA44G	GND – 5000 FT AMSL	LRTRA61L	FL65 – FL200
LRTRA44L	5000 FT AMSL – FL200	LRTRA111A	FL65 – FL280
LRTRA47G	GND – 5000 FT AMSL	LRTRA111I	FL65 – FL280

RADIO COMMUNICATION FAILURE

- If NDB RWY34 instrument approach procedure was assigned or received by ATC, set transponder 7600, proceed according assigned or designated NDB RWY34 instrument approach procedure. Descending shall be executed in accordance with vertical restrictions specified on chart.
- If NDB RWY34 instrument approach procedure was not assigned or received by ATC, for arrivals via REDKU / SALAC / GUXVA / DIRCO / KENUX: set transponder 7600, proceed according to FPL to CTR entry point (REDKU / SALAC / GUXVA / DIRCO / KENUX) and hold at least 6 minutes, then continue the NDB RWY34 approach. Descending shall be executed in accordance with vertical restrictions specified on chart
- If NDB RWY34 instrument approach procedure was not assigned or received by ATC, for arrivals via TULNU: set transponder 7600, proceed according to FPL to CTR entry point TULNU – IAF at min FL60, then direct to BCU VOR at or above MSA and hold at least 6 minutes, then continue the NDB RWY34 approach. Descending shall be executed in accordance with vertical restrictions specified on chart.

LROD 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
TWR	Oradea Tower	118.455 120.200 MHz ALTN	NIL	NIL	W: 0500-1900 S: 0400-1800	Exempted 8.33 KHz State aircraft.
APP	Oradea Tower	121.500 MHz EMERG 120.200 MHz	NIL	NIL	W: 0500-1900 S: 0400-1800	Procedural service

LROD 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	ELEV 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
DME 19	IOD	CH 32X	H24	470149.3N 0215419.9E	500 FT	NIL	NIL
NDB(LO)	ORA	418 KHz	H24	470601.3N 0215526.9E	-	NIL	006° MAG/4.11 NM from THR 19 Coverage 100 NM (declared) Transmitting antennas are satellite based.
GPS NPA	-	1575.420 MHz	H24	-	-	NIL	Maintained by the U.S. Department of Defense.

LROD AD 2.20 LOCAL AERODROME REGULATIONS

1. Airport regulations / Reglementări de aeroport

1.1. Procedures for acceptance

- (1) Prior to flight schedule, operators are asked to check the availability of ground handling services and parking space.

1.2. Taxiing the aircraft on the manoeuvring area

- (1) Aircraft 180 DEG turn are only permitted on RWY END or INTERMEDIATE turn pads.
- (2) Aircraft 180 DEG turn to the intermediate platform for take-off is prohibited. The platforms at the ends of the runway will be used for takeoff.

1.3. Taxiing of aircraft on apron

- (1) Taxiing of aircraft on apron shall be carried out under the direction of marshaller.
- (2) Always the marshaller's signals prevail over the stand markings and guidance light.
- (3) Speed on TWY Charlie must be reduced as it is followed by a **light right junction with TWY D1**.

1.1. Proceduri de admisibilitate

- (1) Înainte de programarea zborului, operatorii aerieni trebuie să verifice disponibilitatea serviciilor de handling și a locului de parcare.

1.2. Rularea aeronavelor pe suprafața de manevră

- (1) Întoarcerea aeronavelor cu 180 grade este permisă numai pe platformele de la capătul pistei sau pe cea intermediară.
- (2) Întoarcerea aeronavelor cu 180 grade la platforma intermediară, pentru decolare, este interzisă. Pentru decolare se vor folosi platformele de la capetele pistei.

1.3. Rularea aeronavelor pe platformă

- (1) Rularea aeronavelor pe platformă se efectuează sub dirijarea dispecerului sol.
- (2) Semnalele dispecerului de sol prevalează întotdeauna asupra marcajelor standului și luminilor de ghidare.
- (3) Viteza de rulare pe TWY Charlie trebuie să fie redusă deoarece este urmată de o **intersecție strânsă la dreapta cu TWY D1**.



1.4. Aircraft parking

- (1) Parking positions on APRON 1:
 - stands 01-02: parking position for code letter „C” aircraft (maximum 26.5 m wingspan)
 - stands 03-04: parking position for code letter „C” aircraft (maximum 29 m wingspan)
 - stands 05-10: parking position for code letter „C” aircraft (maximum 36.0 m wingspan).
- (2) Parking positions on APRON 2:
 - stands 01-04: nose-in parking position, for code letter „C” aircraft (maximum 36.0 m wingspan).
- (3) Aircraft subject to an act of illegal intervention will be parked on runway holding position on TWY B, which will be closed to traffic.

1.5. Exiting the aircraft from the parking position

- (1) The departure of the aircraft from the stands at APRON 1 is allowed by self-manoeuving only with the direction of the aircraft provided by the ground dispatcher.
- (2) The exit of the aircraft from the APRON 2 stands is done only by pushback.

1.6. Use of airport by higher code letter aircraft.

1.6.1 General Information

The aircraft with a higher code letter that can operate at Oradea Airport are: A300 B4 600 Freighter (code letter D); A300 B4 600R Freighter (code letter D); A300 C4 600 Freighter (code letter D); A300 C4 600R Freighter (code letter D); A300 F4 600 Freighter (code letter D); A300 F4 600R Freighter (code letter D); A330 200 Freighter (code letter E); A330 300 Freighter (code letter E);

The aircraft with a higher code letter exemplified above will operate only on the following surfaces:

- RWY;
- TWY E;
- TWY F;
- APRON 2.

1.6.2. Taxiing on the Movement Area.

Given the limited dimensions of the turn pads, TWY E, and APRON 2, aircraft will be towed from the runway to the parking position on APRON 2 and from the parking position to the runway as follows:

1.6.2.1. Operation of A300 B4 600 Freighter (code letter D); A300 B4 600R Freighter (code letter D); A300 C4 600 Freighter (code letter D); A300 C4 600R Freighter (code letter D); A300 F4 600 Freighter (code letter D); A300 F4 600R Freighter (code letter D); A330 200 Freighter (code letter E); A330 300 Freighter (code letter E):

1.6.2.1.1. Aircraft Arrival:

- After landing, the aircraft will turn on the turn pads, taxiing at a reduced speed and using the maximum turning angle due to the small radius of the centerline marking;
- The aircraft will taxi up to the centerline marking of TWY E;
- While taxiing on the runway, TWR – Oradea will instruct the pilot to stop at the beginning of the centerline marking of TWY E;
- The aircraft will stop at the beginning of the centerline marking of TWY E;

1.4. Parcarea aeronavelor

- (1) Pozițiile de parcare de la APRON 1:
 - standuri 01-02: poziții de parcare pentru aeronave cu litera de cod „C” (maximum 26.5 m anvergura aripilor).
 - standuri 03-04: poziții de parcare pentru aeronave cu litera de cod „C” (maximum 29 m anvergura aripilor).
 - standuri 05-10: poziții de parcare pentru aeronave cu litera de cod „C” (maximum 36 m anvergura aripilor).
- (2) Pozițiile de parcare de la APRON 2:
 - standuri 01-04: poziții de parcare nose-in, pentru aeronave cu litera de cod „C” (maximum 36 m anvergura aripilor).
- (3) Aeronavele supuse unui act de intervenție ilicită vor fi parcate pe poziția de așteptare la pistă de pe TWY B, care va fi închisă traficului.

1.5. Ieșirea aeronavelor din poziția de parcare

- (1) Ieșirea de la standurile de la APRON 1 a aeronavelor este permisă prin self-manoeuving doar cu dirijarea aeronavei asigurată de dispecerul de sol.
- (2) Ieșirea de la standurile de la APRON 2 a aeronavelor se face numai prin pushback.

1.6. Utilizarea aeroportului de către aeronave cu literă de cod superioară.

1.6.1 Generalități

Aeronavele cu literă de cod superioară care pot opera pe Aeroportul Oradea sunt: A300 B4 600 Freighter (literă de cod D); A300 B4 600R Freighter (literă de cod D); A300 C4 600 Freighter; A300 C4 600R Freighter (literă de cod D); A300 F4 600 Freighter (literă de cod D); A300 F4 600R Freighter (literă de cod D); A330 200 Freighter (literă de cod E); A330 300 Freighter (literă de cod E).

Aeronavele cu literă de cod superioară exemplificate mai sus, vor opera doar pe următoarele suprafețe:

- RWY;
- TWY E;
- TWY F;
- APRON 2.

1.6.2. Rulajul pe suprafața de mișcare.

Având în vedere dimensiunile reduse ale platformelor de întoarcere, a TWY E și APRON 2, aeronavele vor fi tractate de la pistă până la poziția de parcare de pe APRON 2 și de la poziția de parcare până la pistă după cum urmează:

1.6.2.1. Operarea aeronavelor A300 B4 600 Freighter(literă de cod D); A300 B4 600R Freighter(literă de cod D); A300 C4 600 Freighter; A300 C4 600R Freighter (literă de cod D); A300 F4 600 Freighter (literă de cod D); A300 F4 600R Freighter (literă de cod D); A330 200 Freighter (literă de cod E); A330 300 Freighter (literă de cod E):

1.6.2.1.1. Sosirea Aeronavei:

- După aterizare aeronava va întoarce pe platformele de întoarcere, rulând cu o viteză redusă și utilizând un unghi maxim de întoarcere, raza marcajului axial fiind mica;
- Aeronava va rula până la marcajul axial al TWY E;
- În timpul rulajului pe pistă TWR – Oradea va instrui pilotul să oprească la începutul marcajului axial al TWY E;
- Aeronava va opri la începutul marcajului axial de intrare pe TWY E;



- After the aircraft stops at the beginning of the centerline marking at the of TWY E, TWR – Oradea will instruct the pilot to shut down the engines;
- The aircraft will shut down the engines and apply the brakes until coupling for towing;
- The surface of the runway, TWY E, TWY F, and APRON 2 will be closed with a NOTAM;
- After connection, the aircraft will be towed to the parking position.

1.6.2.1.2. Aircraft Departure:

- The aircraft will be towed from the parking position with engines off to the runway, up to the end area of the centre line marking of TWY E;
- In this area, the aircraft engines will be started;
- The aircraft will wait until TWR-Oradea grants taxi clearance onto the runway after the surface is opened via NOTAM;

- The aircraft will turn on the turning pad at low speed, using the maximum turn angle, as the centre line marking radius is small;
- The aircraft will take off after TWR-Oradea grants takeoff clearance.

1.6.3. Visual Slope:

Caution, the visual slope of the Precision Approach Path Indicator (PAPI) has been calculated taking into account the Boeing 737 Series 800 and Airbus A320 Series 200 aircraft.

1.6.4 Turn Pads:

- Be advised: turn pads (at RWY 01 END and at 520M before RWY 19 END) centre line marking does not ensure 180-degree turn;
- The centre line marking of the turn pads does not ensure the taxiing of A330-200F and A330-300F aircraft with the geometric center of the aircraft cabin aligned along the entire length of the marking; the aircraft must maintain a constant turning angle both while on the marking and when exiting it

- După oprire aeronavei la începutul marcajului axial de intrare la TWY E, TWR-Oradea va solicita pilotului oprirea motoarelor;
- Aeronava va opri motoarele și va acționa frânele până la cuplarea pentru tractare;
- Suprafața pistei, a TWY E, TWY F și APRON 2 se vor închide cu NOTAM;
- După cuplare, aeronava va fi tractată până la poziția de parcare;

1.6.2.1.2. Plecarea aeronavei:

- Aeronava va fi tractată de la poziția de parcare, cu motoarele oprite până la pistă, în zona de final a marcajului axial al TWY E;
- În această zonă motoarele aeronavei vor fi pornite;
- Aeronava va aștepta până când TWR-Oradea va da aprobarea de rulaj pe pistă, după deschiderea suprafeței prin NOTAM;

- Aeronava va întoarce pe platforma de întoarcere cu viteză redusă utilizând un unghi de viraj maxim de întoarcere, raza marcajului axial fiind mica;
- Aeronava va decola după ce TWR-Oradea ca da aprobarea de decolare.

1.6.3. Panta vizuală:

Atenție, panta vizuală a Indicatorului traiectoriei de apropiere de precizie (PAPI) a fost calculată ținând cont de aeronava Boeing 737 seria 800 și Airbus A320 seria 200.

1.6.4 Platformele de întoarcere:

- marcajul axial al platformelor de întoarcere (la capătul pistei 01 și la 520 m înainte de capătul pistei 19) nu asigură întoarcerea completă de 180 de grade;
- marcajul axial al platformelor de întoarcere nu asigură rulajul aeronavelor A330 seria 200F și A330 seria 300F cu centrul geometric al cabinei aeronavei pe întreaga lungime a marcajului, aeronavele trebuie să utilizeze un unghi de virare constant atât pe marcaj cât și la ieșirea de pe acesta.

2. Standard Taxi Routes / Rutele Standard de Rulare

2.1. Arrival information

Arrival on	Instruction given by ATC				Taxiway to be followed	Remarks			
	APRON		Name of the Standard Taxi Route						
RWY 01	APRON 1	Taxi via standard taxi route	Arrival 01A	To	Stands: 1-6	TWY B			
			Arrival 01B		Stands: 7	TWY B - TWY C			
			Arrival 01C		Stands: 8-10	TWY B - TWY C - TWY D1			
			Arrival 01D		Stands: 1-5	TWY A - TWY B			
			Arrival 01E		Stand: 6	TWY A			
			Arrival 01F		Stand: 7	TWY A - TWY C			
			Arrival 01G		Stands: 8-10	TWY A - TWY C - TWY D1			
			Arrival 01H		Stands: 1	BACKTRACK RWY 01 - TWY E			
	APRON 2		Arrival 01I		Stands: 2-4	BACKTRACK RWY 01 TWY E - TWY F			
			Arrival 01J		Stands: 1	TWY E			
			Arrival 01K		Stands: 2-4	TWY E - TWY F			
			RWY 19		APRON 1	Arrival 19A	To	Stands: 1-5	BACKTRACK RWY 19 - TWY A - TWY B
						Arrival 19B		Stands: 6	BACKTRACK RWY 19 - TWY A
Arrival 19C	Stands: 7	BACKTRACK RWY 19 - TWY A - TWY C							
APRON 2	Arrival 19D	Stands: 8-10		BACKTRACK RWY 19 - TWY A - TWY C - TWY D1					
	Arrival 19E	Stands: 1		BACKTRACK RWY 19 - TWY E					
	Arrival 19F	Stands: 2-4		BACKTRACK RWY 19 - TWY E - TWY F					
	Arrival 19G	Stands: 1		TWY E					
Arrival 19H	Stands: 2-4	TWY E - TWY F							



2.2. Departure information

Departure from	Instruction given by ATC			Taxiway to be followed	Remarks	
		Name of the Standard Taxi Route				
APRON 1	Taxi via standard taxi route	Departure 19A	From	Stands: 1-5	TWY B - TWY A - BACKTRACK RWY 19	NIL
		Departure 19B		Stands: 1-5	TWY B	
		Departure 19C		Stands: 6	TWY B	
		Departure 19D		Stands: 6	TWY A - BACKTRACK RWY 19	
		Departure 19E		Stands: 7	TWY A - BACKTRACK RWY 19	
		Departure 19F		Stands: 7	TWY B	
		Departure 19G		Stands: 8-10	TWY D2 - TWY C - TWY A - BACKTRACK RWY 19	
		Departure 19H		Stands: 8-10	TWY D2 - TWY C - TWY B	
		Departure 01A		Stands: 1-5	TWY B - TWY A - BACKTRACK RWY 01	
		Departure 01B		Stands: 6	TWY A - BACKTRACK RWY 01	
		Departure 01C		Stands: 7	TWY A - BACKTRACK RWY 01	
		Departure 01D		Stands: 1-5	TWY B - TWY A - BACKTRACK RWY 01	
		Departure 01E		Stands: 8-10	TWY D2 - TWY C - TWY A - BACKTRACK RWY 01	
APRON 2	Taxi via standard taxi route	Departure 19I	From	Stands: 1	TWY E - BACKTRACK RWY 19	
		Departure 19J		Stands: 2-4	TWY F - TWY E - BACKTRACK RWY 19	
		Departure 01F		Stands: 1	TWY E - BACKTRACK RWY 01	
		Departure 01G		Stands: 2-4	TWY F - TWY E - BACKTRACK RWY 01	

LROD AD 2.21 NOISE ABATEMENT PROCEDURES

See AD 1.1-3

LROD AD 2.22 FLIGHT PROCEDURES

- NIL -

LROD AD 2.23 ADDITIONAL INFORMATION

- NIL -

LROD AD 2.24 CHARTS RELATED TO THE AERODROME

Aerodrome Chart - ICAO	AD 2.11-20
Aerodrome Parking/Docking Chart - ICAO – APRON 1	AD 2.11-22
Aerodrome Parking/Docking Chart - ICAO – APRON 2	AD 2.11-23
Aerodrome Obstacle Chart - ICAO - Type A	
RWY 19.....	AD 2.11-25
RWY 01.....	AD 2.11-26
Instrument Approach Charts - ICAO	
RNP RWY 19 (LNAV/VNAV, LNAV only).....	AD 2.11-71
NDB Y RWY 19 - CAT A / B.....	AD 2.11-91
NDB Z RWY 19 - CAT C / D	AD 2.11-92

LROD AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable.

2. Standard Taxi Routes / Rutele Standard de Rulare

2.1 Arrival information

Arrival on	Instruction given by ATC				
	Route to be follow	Name of the Standard Taxi Route	To	Taxiway to be followed	Remarks
RWY 07	Standard taxi route	Arrival 1	Stand number 1/2	TWY A TAXILANE D	NIL
		Arrival 2	Stand number 3/4/5/6/7	TWY A TWY C	NIL
		Arrival 3	Stand number 3/4/5/6/7	TWY B TWY C	NIL
Arrival 4		Stand number 1/2	TWY A TAXILANE D	A/C turn around in turning bay at THR 07	
Arrival 5		Stand number 3/4/5/6/7	TWY B TWY C	Arrival not available in LVO	
RWY 25					

2.2 Departure Information

Departure from	Instruction given by ATC					
	Route to be follow	Name of the Standard Taxi Route	To	Taxiway to be followed	RWY in use	Remarks
Stand number 1/2	Standard taxi route	Departure 1	Holding position	TAXILANE D TWY A	RWY 07	NIL
Stand number 3/4/5/6/7		Departure 2		TWY C TWY A		NIL
		Departure 3		TWY C TWY B		See below B ¹ remarks. (TORA 1795m). Not available in LVO.
Stand number 1/2		Departure 4	Holding position	TAXILANE D TWY A	RWY 25	NIL
Stand number 3/4/5/6/7		Departure 5		TWY C TWY A		NIL
		Departure 6		TWY C TWY B		NIL

B¹ Aircraft departing from RWY 25 may line-up from intersection of TWY B with RWY25 (TORA 1795m) according to airline's Standard Operating Procedure. Pentru decolarea de pe pista 25, aeronavele se pot alinia de la intersecția pistei 25 cu TWY B (TORA 1795m) conform procedurilor Standard de Operare ale companiei aeriene.

LRTM AD 2.21 NOISE ABATEMENT PROCEDURES

- See AD 1.1-3 -

The APU is permitted functioning maximum 15 minutes after BLOCK ON TIME and may be started with maximum 30 minutes before STD. La aterizare, aeronavele pot menține APU în funcțiune maxim 15 minute de la ora BLOCK ON TIME. La decolare APU poate fi pornit cu maxim 30 minute înainte de STD.

LRTM AD 2.22 FLIGHT PROCEDURES / PROCEDURI DE ZBOR**1. P-RNAV requirements / Cerințe P-RNAV**

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

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

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

On all RWY directions, tactical points for non-standard shorter approach are established: RUTUV for TM RWY07, ETEPA for TM RWY25. These points may be used only after request/approval of air crews.

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

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

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

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

Ori de câte ori este posibil, ATC va acorda autorizări "direct-to" (îndeosebi în afara perioadelor de vârf). Virajul către apropierea finală este de obicei efectuat prin vectorizare radar, pentru a fluidiza traficul și pentru asigurarea eșalonării. Sunt stabilite puncte tactice pentru apropieri non-standard mai scurte: RUTUV pentru TM RWY07, ETEPA pentru TM RWY25. Aceste puncte pot fi utilizate numai la cererea sau cu acordul echipajului.

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

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

2. LOW VISIBILITY PROCEDURES / PROCEDURI ÎN CONDIȚII DE VIZIBILITATE REDUSĂ**1. Low visibility procedures - LVP**

During low visibility operation, ATC capacity is reduced. To ensure aircraft safety and an optimal ATC capacity, Transilvania Târgu-Mureș Airport applies Low Visibility Operating Procedures.

1.1 Description of facilities

- Runway 07 is equipped with ILS and is certified for CAT II (RVR not less than 300m) operations.
- Runway 07 is certified for low visibility take-off - LVTO (RVR not less than 125m) operations.
- Runway 25 is certified for low visibility take-off - LVTO (RVR not less than 125m) operations.
- ILS GP and LOC critical and sensitive areas are protected during LVP and LVTO operations.

2. Criteria for the initiation and termination of LVP**2.1 Approach and landing****a) The preparation phase:**

- It is initiated when the RVR falls below 800m (or the horizontal meteorological visibility falls below 1500m if RVR data are not available) and/or the cloud ceiling/vertical visibility falls below 500ft;

- If doesn't exist planned flight operations LVP procedures are not initiated;

- The preparation phase will be initiated at least one hour before the estimated landing time of the first aircraft planned, in order that, the operational phase to be activated at least 30 minutes before the estimated landing time.

b) The operations phase:

- Is triggered when RVR falls below 550m (or horizontal meteorological visibility falls below 800m, if RVR data is not available) and/or cloud ceiling/vertical visibility drops below 200ft;

- It shall be triggered under existing traffic conditions at the aerodrome, only after all preparation phase specific activities are completed.

1. Proceduri în condiții de vizibilitate redusă - LVP

Pe timpul operării în condiții de vizibilitate redusă, capacitatea ATC este redusă. Pentru a asigura siguranța aeronavelor și o capacitate ATC optimă, Aeroportul Transilvania Târgu-Mureș aplică proceduri de operare în condiții de vizibilitate redusă.

1.1 Descrierea facilităților

- Pista 07 este echipată cu ILS și este certificată pentru desfășurarea operațiunilor CAT II (RVR nu mai mic de 300m).
- Pista 07 este certificată pentru decolare în condiții de vizibilitate redusă - LVTO (RVR nu mai mic de 125m).
- Pista 25 este certificată pentru decolare în condiții de vizibilitate redusă - LVTO (RVR nu mai mic de 125m).
- Zonele critice și sensibile ILS GP și LOC sunt protejate pe timpul operațiunilor LVP și LVTO.

2. Criterii pentru inițierea și terminarea LVP**2.1 Apropierea și aterizarea****a) Faza de pregătire:**

- Se inițiază atunci când RVR scade sub 800m (sau vizibilitatea meteorologică orizontală scade sub 1500m, dacă nu sunt disponibile datele de RVR) și/sau plafonul norilor/vizibilitatea verticală scade sub 500ft;

- Dacă nu există operațiuni de zbor planificate, nu se inițiază faza pregătitoare în vederea declanșării procedurilor LVP;

- Inițierea fazei de pregătire se face cel puțin cu o oră înainte de ora estimată de aterizare a primei aeronave planificate, astfel încât, faza operațională să fie declanșată cu cel puțin cu 30min înainte de ora estimată de aterizare a acesteia.

b) Faza operațională:

- Se declanșează atunci când RVR scade sub 550m (sau vizibilitatea meteorologică orizontală scade sub 800m, dacă nu sunt disponibile datele de RVR) și/sau plafonul norilor/vizibilitatea verticală scade sub 200ft;

- Se declanșează în condiții de trafic existent pe aerodrom, numai după încheierea tuturor activităților specifice fazei pregătitoare.

c) The termination phase:

- It is initiated when the RVR reaches or increases above 800m (or the horizontal meteorological visibility reaches or increases above 1500m, if RVR data is not available) and the cloud ceiling/vertical visibility reaches or increases above 300ft;
- In the case that are no more planned flight operations, the operational phase ending at 30 minutes from the aircraft transfer to APP București-TMA NAPOC.

2.2 Take-off

- LVTO is triggered only if there are requests, under RVR conditions below 550m;
- In the case that are no more planned flight operations, the take-off in LVTO shall be requested 30 minutes before the EOBT to allow for appropriate preparations.

3. Any ground movements restrictions

- All movements on the maneuvering area must be made using only the Standard Taxi Routes
- Upon receiving taxi clearance, aircraft must only proceed when a green centerline path is illuminated.
- During LVO taxiing on the maneuvering area is restricted to one aircraft.
- Stop Bar lights permanently on in LVO. They are off only when is permitted the access to the aircraft or essential vehicles on the runway.
- During the LVO it is forbidden to enter any vehicle on the maneuvering surface when there is already an aircraft. Similarly, an aircraft will not enter on the maneuvering area until all vehicles being previously on the maneuvering area have reported on its release.

4. Description of LVP**4.1 CAT II Approach and Landing**

- During the LVO pilots will be informed by ATIS and RTF that LVP procedures are in force;
- The localizer sensitive area will be protected when a landing aircraft is within 6NM from touchdown. ATC will provide suitable spacing between aircraft on final approach and will ensure that any aircraft aligned on the runway shall commence the take-off before another aircraft, being in landing sequence on final approach prior it reaches to 6 NM from threshold.
- ATC issues the landing permit or landing abort instructions for an aircraft being on final approach, before it reaches to 6NM from threshold.
- Persons and vehicle movement who operating on the apron is reduced to an essential minimum number determined by the sequence of strictly necessary operations at the aircraft.
- On the apron, the aircraft guidance to the parking position is made with two marshallsers by using red marshalling wands.

4.2 Simulated CAT II Approaches

- Prior to performing a simulated CAT II approach, is mandatory for the pilot to submit a request to ATC at least 30 minutes prior the estimated time of landing.
- ATC can authorize a simulated CAT II approach only after all relevant procedures are in force.

c) Faza de încheiere:

- Se inițiază atunci când RVR atinge sau crește peste 800m (sau vizibilitatea meteorologică orizontală atinge sau crește peste 1500m, dacă nu sunt disponibile datele de RVR) și plafonul norilor/vizibilitatea verticală atinge sau crește peste 300ft;
- În cazul în care nu mai există operațiuni de zbor planificate, faza operațională se încheie la 30 minute de la realizarea transferului aeronavei către APP București-TMA NAPOC.

2.2 Decolarea

- LVTO se declanșează doar dacă există solicitări, în condițiile RVR sub 550m;
- În cazul în care nu mai există operațiuni de zbor planificate, decolarea în LVTO se solicită cu 30 minute înainte de EOBT pentru a permite pregătirile corespunzătoare.

3. Restricții privind mișcarea la sol

- Toate mișcările pe suprafața de manevră trebuie făcute utilizând doar Rutele Standard de Rulare.
- După obținerea autorizării de rulare, aeronava trebuie să înceapă rularea doar atunci când luminile verzi axiale au fost aprinse.
- În timpul LVO rularea pe suprafața de manevră este restricționată la o singură aeronavă.
- Luminile Stop Bar aprinse permanent în condiții LVO. Acestea se sting numai pentru permiterea accesului aeronavei sau vehiculelor esențiale pe pistă.
- În timpul LVO se interzice intrarea oricărui vehicul pe suprafața de manevră atunci când acolo există deja o aeronavă. Similar, o aeronavă nu va intra pe suprafața de manevră până când toate vehiculele existente în prealabil pe respectiva suprafață raportează eliberarea acesteia.

4. Descrierea procedurilor în condiții de vizibilitate scăzută**4.1 Apropierea și aterizarea CAT II**

- Pe durata LVO piloții vor fi informați prin ATIS și RTF că procedurile LVP sunt active;
- Zona sensibilă ILS va fi protejată atunci când o aeronavă care aterizează se află la 6NM de punctul de contact. CTA va asigura eșalonarea corespunzătoare între aeronavele aflate pe apropierea finală și se asigură că orice aeronavă aliniată pe pistă începe decolarea înainte ca o altă aeronavă aflată pe finală la aterizare să ajungă la 6 NM de prag.
- CTA emite autorizarea de aterizare sau instrucțiuni de ratare aterizare pentru o aeronavă aflată pe finală, înainte ca aceasta să ajungă la 6NM de prag.
- Circulația persoanelor și vehiculelor care operează pe platformă se reduce la un număr minim esențial, determinat de succesiunea operațiilor strict necesare la aeronavă.
- Pe platformă, dirijarea aeronavei la poziția de parcare se face cu doi dispeceri utilizând bastoane luminoase de culoare roșie.

4.2 Apropieri CAT II în condiții LVP simulate

- Înainte de efectuarea unei simulări de apropiere CAT II, pilotul este obligat să transmită o solicitare către CTA cu cel puțin 30 min înainte de ora estimată de aterizare.
- CTA poate aproba apropieri în condiții simulate LVP numai după îndeplinirea tuturor condițiilor.

LRTM AD 2.23 ADDITIONAL INFORMATION**1. Removal blocked aircraft**

a) Transilvania Târgu Mureș Airport does not have equipments of removal of the accidental blocked aircrafts in movement surface and adjacent safety strip.

b) Aircraft operators are responsible for removing accidentally immobilized aircraft on the moving surface and the adjacent safety strip.

c) Airport can provides airline operators with contact details of companies owning equipment and machinery capable of removing accidentally fixed aircraft.

2. Warning for bird hazard

There may be bird concentrations in the immediate vicinity, but also within Transylvania Targu-Mures Airport perimeter (grassy areas).

Birds fly from resting areas to feeding areas regularly, with periods of maximum activity (usually morning or evening), but erratic movements have also been observed.

Depending on the species, concentration areas appear either to the east (the case of crows - the urban area of Târgu Mureș city) or to the north (the case of some species associated with wetlands that appear especially along the Mureș river), overlapping to flight lanes, either from north to south (and vice versa) or from east to west (and vice versa).

As a rule, flight ceilings of bird species are between 0 and 900ft, rarely (especially during migration) reaching higher ceilings.

As far as possible, the control tower will inform the pilots about the activity of the birds and the height of their flight AGL.

The directions of movement of the birds and the maximum heights reached are represented on chart AD 2.15-46.

1. Înlăturarea aeronavelor imobilizate

a) Aeroportul Transilvania Târgu Mureș nu dispune de echipamente și utilaje de înlăturare a aeronavelor imobilizate accidental pe suprafața de mișcare și benzile de siguranță adiacente.

b) Operatorii Aerieni sunt răspunzători de înlăturarea aeronavelor imobilizate accidental pe suprafața de mișcare și benzile de siguranță adiacente.

c) Aeroportul poate pune la dispoziție operatorilor aerieni date de contact ale firmelor ce dețin echipamente și utilaje capabile să înlătore aeronavele imobilizate accidental.

2. Avertizare pentru pericol de păsări

Pot exista concentrații de păsări în imediata proximitate, dar și la nivelul unor suprafețe din interiorul perimetrului Aeroportului Transilvania Târgu-Mureș (zone înierbate).

Păsările se deplasează în zbor din zonele de odihnă spre cartiere de hrănire, în mod regulat, existând perioade de maximă activitate (de regulă de dimineață sau seara), dar au fost observate și deplasări eractice.

În funcție de specie, cartierele de odihnă sunt concentrate fie la est (cazul ciorilor - zona urbană a orașului Târgu Mureș) sau la nord (cazul unor specii asociate zonelor umede ce apar în special de-a lungul luncii râului Mureș), traversând culoarele de zbor, fie de la nord spre sud (și invers), fie de la est spre vest (și invers).

De regulă, plafoanele de zbor a speciilor de păsări se situează între 0 și 900ft, mai rar (în special în perioada de migrație) atingându-se plafoane mai înalte.

Pe cât posibil, turnul de control va informa piloții cu privire la activitatea păsărilor și înălțimea AGL de zbor a acestora.

Direcțiile de deplasare ale păsărilor și înălțimile maxime atinse sunt reprezentate pe harta AD 2.15-46.

LRTM AD 2.24 CHARTS RELATED TO THE AERODROME

Aerodrome Chart - ICAO	AD 2.15-20
Aircraft Parking/Docking Chart - ICAO - APRON.....	AD 2.15-22
Aerodrome Obstacle Chart - ICAO - Type A	
RWY 07.....	AD 2.15-25
RWY 25	AD 2.15-26
Precision Approach Terrain Chart - ICAO	
RWY 07.....	AD 2.15-29
Standard Departure Chart - Instrument - ICAO	
RWY 07.....	AD 2.15-30
RWY 25.....	AD 2.15-31
Standard Arrival Charts - Instrument - ICAO	
RWY 07/25.....	AD 2.15-32
RNAV Standard Departure Chart - Instrument - ICAO	
RWY 07.....	AD 2.15-34
RWY 25.....	AD 2.15-35
RNAV Standard Arrival Charts - Instrument - ICAO	
RWY 07.....	AD 2.15-36
RWY 25.....	AD 2.15-37
ATC Surveillance Minimum Altitude Chart - ICAO.....	AD 2.15-45
Bird concentrations in the vicinity of the aerodrome	AD 2.15-46
Instrument Approach Charts - ICAO	
RWY 07 ILS - CAT A / B	AD 2.15-51
RWY 07 ILS - CAT C / D.....	AD 2.15-52
RWY 07 NDB - CAT A / B.....	AD 2.15-91
RWY 07 NDB - CAT C / D.....	AD 2.15-92
RWY 25 NDB - CAT A / B.....	AD 2.15-93
RWY 25 NDB - CAT C / D.....	AD 2.15-94

LRTM AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

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		Remarks
8	9	10	11	12	13	14
NIL	NIL	710 x 60	30 x 60	NIL	NIL	NIL
NIL	NIL	710 x 60	30 x 60	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-

**LRMS AD 2.1 AERODROME LOCATION INDICATOR AND NAME**
LRMS - TÂRGU MUREȘ / Mureșeni**LRMS AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

1	ARP coordinates and site at AD	463200 N 0243146E, RWY centre.
2	Direction and distance from city	2.5 km E from Târgu Mureș
3	Elevation/Reference temperature/mean low temperature	1006 FT / 29.6°C / -14.4°C
4	Geoid undulation at AD ELEV PSN	129 FT
5	MAG VAR/ Annual rate of change	6°E (2022) / 2.4°E
6	AD Operator, address, telephone, telefax, telex, AFS	Aeroclubul Teritorial "Elie Carafoli" Târgu Mureș Str. Libertății Nr.120, Târgu Mureș Tel: 0726.678.327 e-mail: mures@aeroclubulromaniei.ro
7	Types of traffic permitted (IFR/VFR)	VFR
8	Remarks	NIL

LRMS 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

LRMS 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: 730 M ² , maximum height 3.85 m.
6	Repair facilities for visiting aircraft	Glider, AN2, IAR 46, Motoglider.
7	Remarks	OPC (Operational Control) on 119.080

LRMS 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

LRMS 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

LRMS 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



LRMS 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 20 M Grass 5700kg
3	ACL location and elevation		NIL
4	VOR checkpoints		NIL
5	INS checkpoints		NIL
6	Remarks		NIL

LRMS 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: Color white , red-white stripes cones ;Designation, THR, edge marked white; - lights: NIL TWY: - markings: yellow, blue-yellow stripes cones; - lights: NIL
3	Stop bars and runway guard lights	NIL
4	Other RWY protection measure	NIL
5	Remarks	NIL

LRMS 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

LRMS 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



LRMS 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
05	057.02°	795 x 40	5700 Kg Grass	463152.72N 0243129.86E 463206.74N 0243201.16E GUND 129FT	THR 1002 FT	0.14%
23	237.02°	705 x 40	5700 Kg Grass	463206.74N 0243201.16E 463152.72N 0243129.86E GUND 129FT	THR 1006 FT	-0.14%
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	855 x 60	30 x 60	NIL	NIL	NIL
NIL	NIL	855 x 60	30 x 60	NIL	NIL	NIL

LRMS AD 2.13 DECLARED DISTANCES

RWY designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
05	795	795	795	795	NIL
23	795	795	795	795	NIL

LRMS AD 2.14 APPROACH AND RWY LIGHTING

RWY Designator	APCH LGT type	THR LGT colour	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
	INTST	WBAR	PAPI	LEN	colour, INTST	INTST	WBAR	colour	
1	2	3	4	5	6	7	8	9	10
NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

LRMS 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

LRMS 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



LRMS 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 Târgu Mureş CTR (see LRTM AD 2.17 ATS AIRSPACE)

LRMS 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

LRMS 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 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

LRMS AD 2.20 LOCAL AERODROME REGULATIONS

Mureşeni aerodrome is located in Târgu Mureş CTR, class C airspace, with horizontal and vertical limits described in AIP Romania, LRTM AD 2.17 ATS AIRSPACE.

For entry permission in the controlled airspace of Târgu Mureş CTR, aircraft operating from Mureşeni airfield shall submit a FPL and contact the traffic unit from Târgu Mureş TWR (for communication channel see LRTM 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 TÂRGU MUREŞ/Transilvania-Târgu Mureş International Airport (LRTM), without the prior authorization of the traffic unit from Târgu Mureş TWR.

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

Aerodromul Mureşeni este situat în CTR Târgu Mureş, spaţiu aerian clasa C, cu limite orizontale şi verticale descrise în AIP România, LRTM AD 2.17 ATS AIRSPACE.

Pentru permisiunea de intrare în spaţiul aerian controlat al CTR Târgu Mureş, aeronavele care operează de pe aerodromul Mureşeni vor depune FPL şi vor contacta unitatea de trafic de la TWR Târgu Mureş (pentru canalul de comunicaţii vezi LRTM AD 2.18 ATS COMMUNICATION FACILITIES).

Toate zborurile sunt subiect al autorizării ATC cu excepţia celor care evoluează în zone de spaţiu aerian restricţionate sau segregate.

Este interzisă intersecţia direcţiilor de decolare/aterizare ale pistei Aeroportului Internaţional TÂRGU MUREŞ/Transilvania-Târgu Mureş (LRTM), fără autorizarea prealabilă a unităţii de trafic de la TWR Târgu Mureş.

Pentru zborurile în CTR Târgu Mureş este obligatorie echiparea aeronavelor cu sistem de identificare SSR şi comunicaţii aer-sol VHF în ecart 8.33 kHz.

LRMS AD 2.21 NOISE ABATEMENT PROCEDURES

-NIL-

LRMS AD 2.22 FLIGHT PROCEDURES

-NIL-

LRMS AD 2.23 ADDITIONAL INFORMATION

-NIL-

LRMS AD 2.24 CHARTS RELATED TO THE AERODROME

Aerodrome Chart - ICAO AD 2.34-20
Visual Operations Chart..... AD 2.34-40

LRMS AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable

AERODROME CHART - ICAO

46°32'00" N
024°31'46" E
ELEV 1006 FT

TÂRGU MUREȘ / Mureșeni (LRMS)

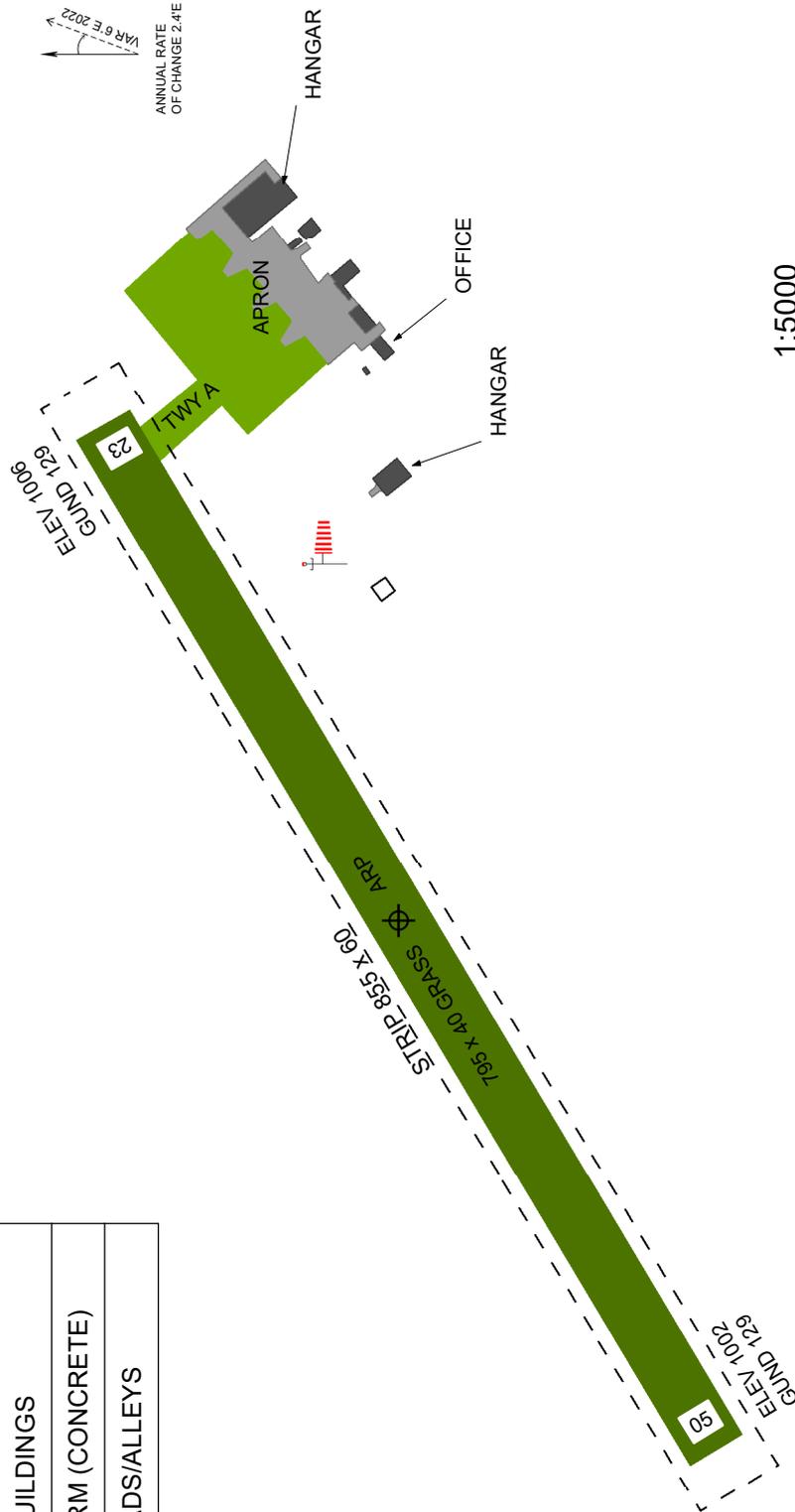
OPC 119.080

Changes: New chart.

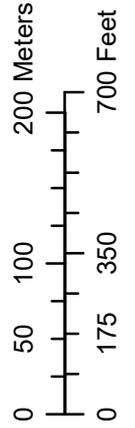
RWY	DIRECTION	THR	BEARING STREIGHT
05	051°	46°31'53"N 024°31'30"E	5700 KG GRASS
23	231°	46°32'07"N 024°32'01"E	
HELIPORT			

APRON	Grass + Concrete 5700 KG
TWY A	Width: 20 M Grass 5700 KG

LEGEND	
⊕	ARP
⋮	WIND DIRECTION INDICATOR (WDI)
■	RWY (GRASS)
■	TWY (GRASS)
■	BUILDINGS
■	PLATFORM (CONCRETE)
■	ROADS/ALLEYS



1:5000



ELEVATIONS IN FEET
DIMENSIONS IN METRES
BEARINGS ARE MAGNETIC

VISUAL OPERATIONS CHART

AD ELEV 1006 FT

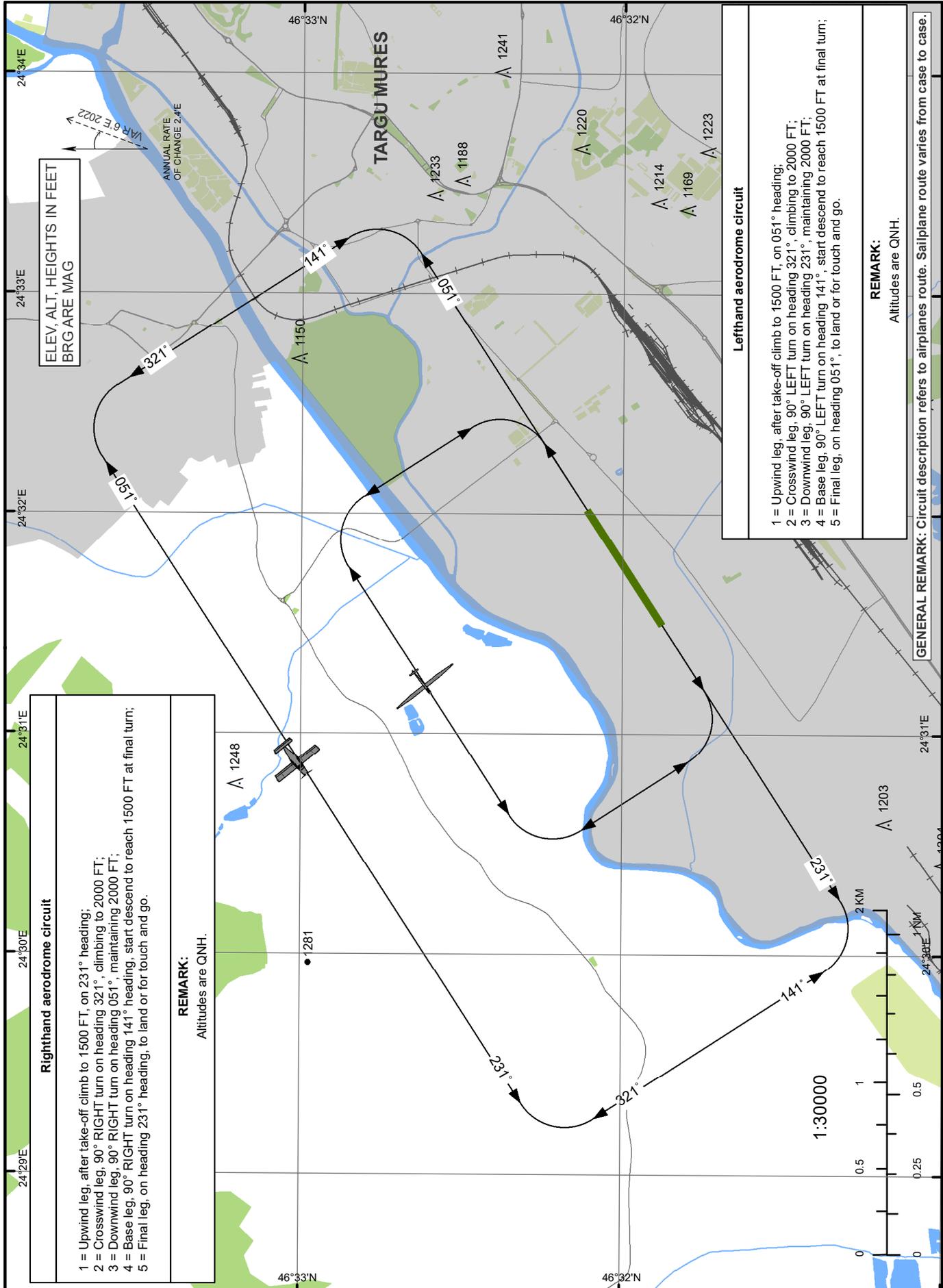
TÂRGU MUREȘ / Mureșeni (LRMS)

OPC 119.080

RWY 05/23

Aerodrome Traffic Circuit

Changes: New chart.



ELEV, ALT, HEIGHTS IN FEET
BREGARE MAG

Righthand aerodrome circuit

- 1 = Upwind leg, after take-off climb to 1500 FT, on 231° heading;
- 2 = Crosswind leg, 90° RIGHT turn on heading 321°, climbing to 2000 FT;
- 3 = Downwind leg, 90° RIGHT turn on heading 051°, maintaining 2000 FT;
- 4 = Base leg, 90° RIGHT turn on heading 141° heading, start descend to reach 1500 FT at final turn;
- 5 = Final leg, on heading 231° heading, to land or for touch and go.

REMARK:
Altitudes are QNH.

Lefthand aerodrome circuit

- 1 = Upwind leg, after take-off climb to 1500 FT, on 051° heading;
- 2 = Crosswind leg, 90° LEFT turn on heading 321°, climbing to 2000 FT;
- 3 = Downwind leg, 90° LEFT turn on heading 231°, maintaining 2000 FT;
- 4 = Base leg, 90° LEFT turn on heading 141°, start descend to reach 1500 FT at final turn;
- 5 = Final leg, on heading 051°, to land or for touch and go.

REMARK:
Altitudes are QNH.

GENERAL REMARK: Circuit description refers to airplanes route. Sailplane route varies from case to case.