

LGTS/SKG
MAKEDONIA**JEPPESEN**
11 MAY 07 **10-1P****THESSALONIKI, GREECE**
AIRPORT BRIEFING

1. GENERAL

1.1. ATIS

ATIS 127.55

1.2. LOW VISIBILITY PROCEDURES (LVP)

LVP are activated, when RVR is less than 1400m and/or ceiling is less than 400'. When RVR is less than 800m and/or ceiling is less than 200' only RWY 16 will be available for landing and take-off.

Pilots will be informed when these procedures are in operation via ATIS or RTF.

During CAT II operations, departing ACFT will use TWY C and TWY A to the holding position RWY 16.

Arriving ACFT will clear RWY 16 at TWY D or at the end of RWY 16 and will follow TWY A and TWY C to the apron. Stopbars will be activated during CAT II operations. Crossing of activated stopbars without specific ATC instructions is prohibited.

During CAT II operation, pilots are expected to be able to follow TWY centerline light and ground signals to the apron. Alternatively Follow-me car guidance may be requested.

Pilots will not be refused permission to land or take-off on "pilots discretion" solely because of bad weather conditions.

1.3. OTHER INFORMATION

Birds in vicinity of APT.

RWYs 10 & 16 right-hand circuit.

Turns on RWY 10/28 shall only be made to the RIGHT and on the concrete part of RWY end. Lower engine power should be used to avoid possible damage to the ACFT barrier.

2. ARRIVAL

2.1. CAT II OPERATIONS

RWY 16 approved for CAT II operations, special aircrew and ACFT certification required.

2.2. OTHER INFORMATION

For Radar Minimums see Terminal page E-51 etc.

Due to significant obstructions in approach area to RWY 34, touchdown point should be selected making due allowance for ACFT performance, height of obstacles and landing distance required.

3. DEPARTURE

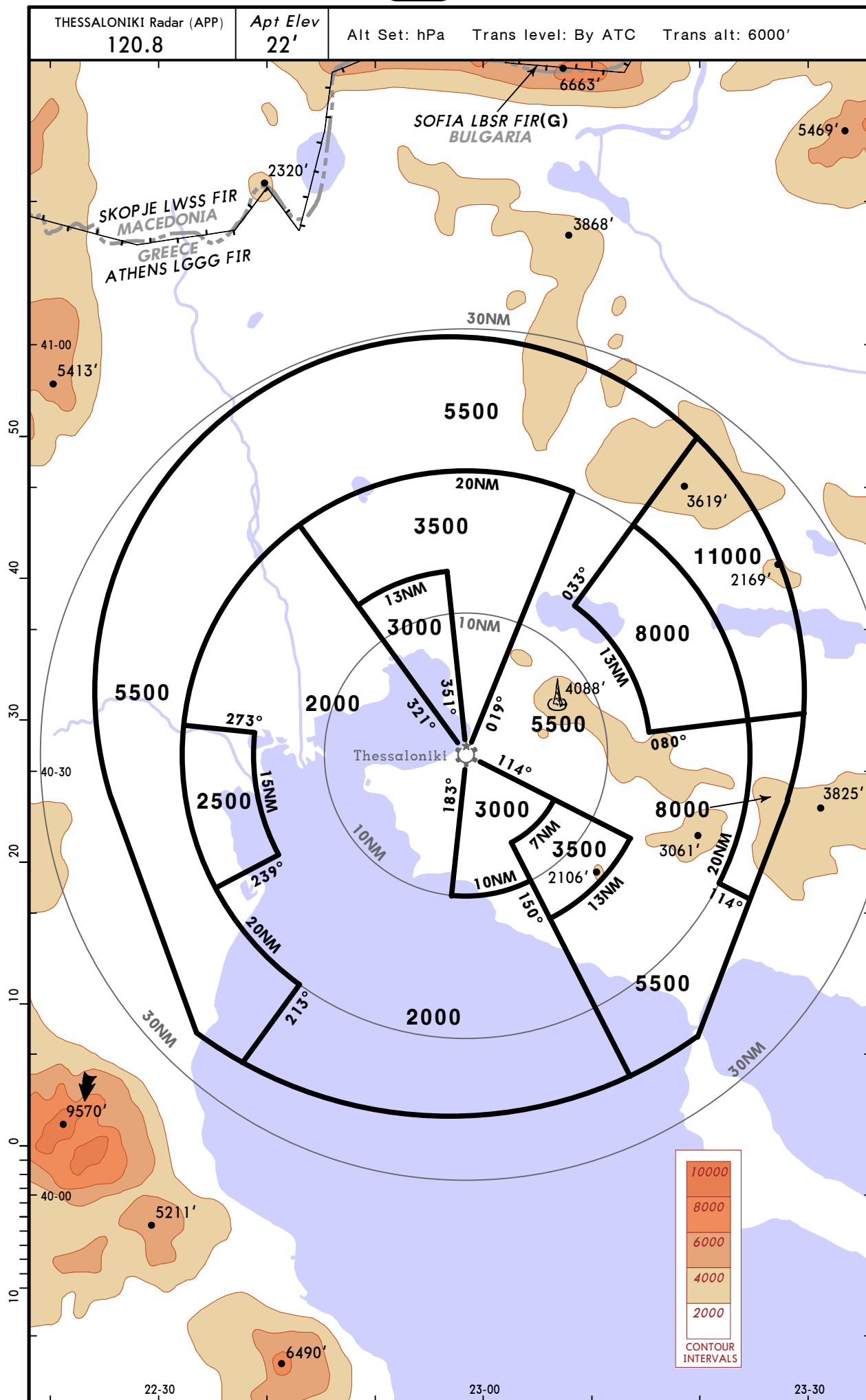
3.1. START-UP PROCEDURES

Request start-up clearance when the ACFT doors are closed and when ready to start engines immediately. When the expected delay is less than 15 minutes at the holding position, ACFT will be cleared to start engines immediately.

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2 MAR 07 **10-1R**

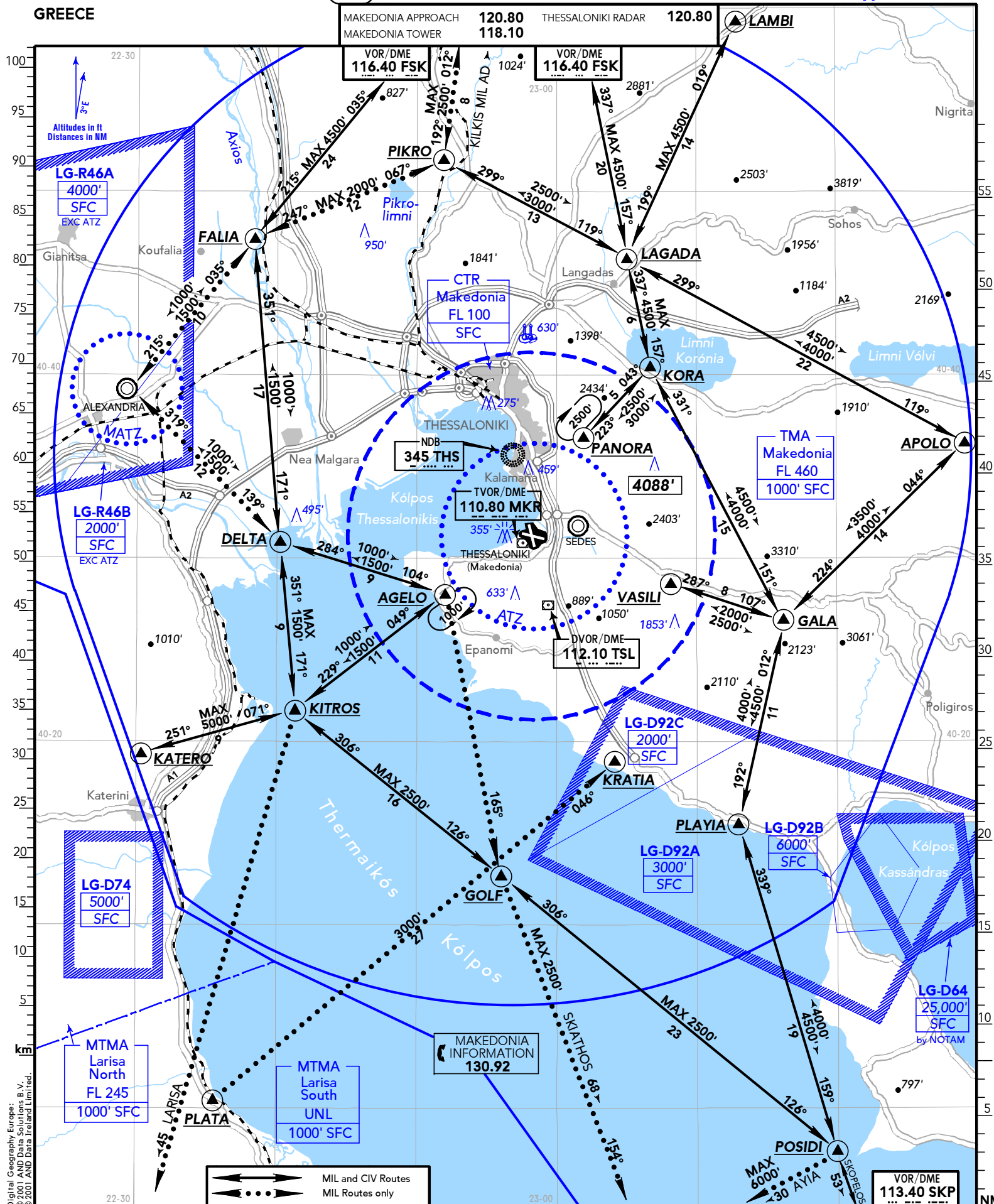
THESSALONIKI, GREECE
RADAR MINIMUM ALTITUDES



AREA
THESSALONIKI
GREECE

10-1V

3 FEB 06


JEPPESEN

CHANGES: New layout - COM - Airspace.

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® BOTTLANG AIRFIELD MANUAL

JEPPESEN

3 FEB 06

10-1VA

AREA
THESSALONIKI
GREECE

ACFT (including HEL) flying VFR within Makedonia TMA shall follow the VFR routes and altitudes depicted overleaf unless VFR criteria require different procedures or a special permission has been obtained from the appropriate ATC unit.

According to traffic conditions, ATC may assign different VFR routes.

When flying on the routes ACFT must maintain a continuous listening watch to MAKEDONIA APP/TWR and give position reports over the compulsory reporting points.

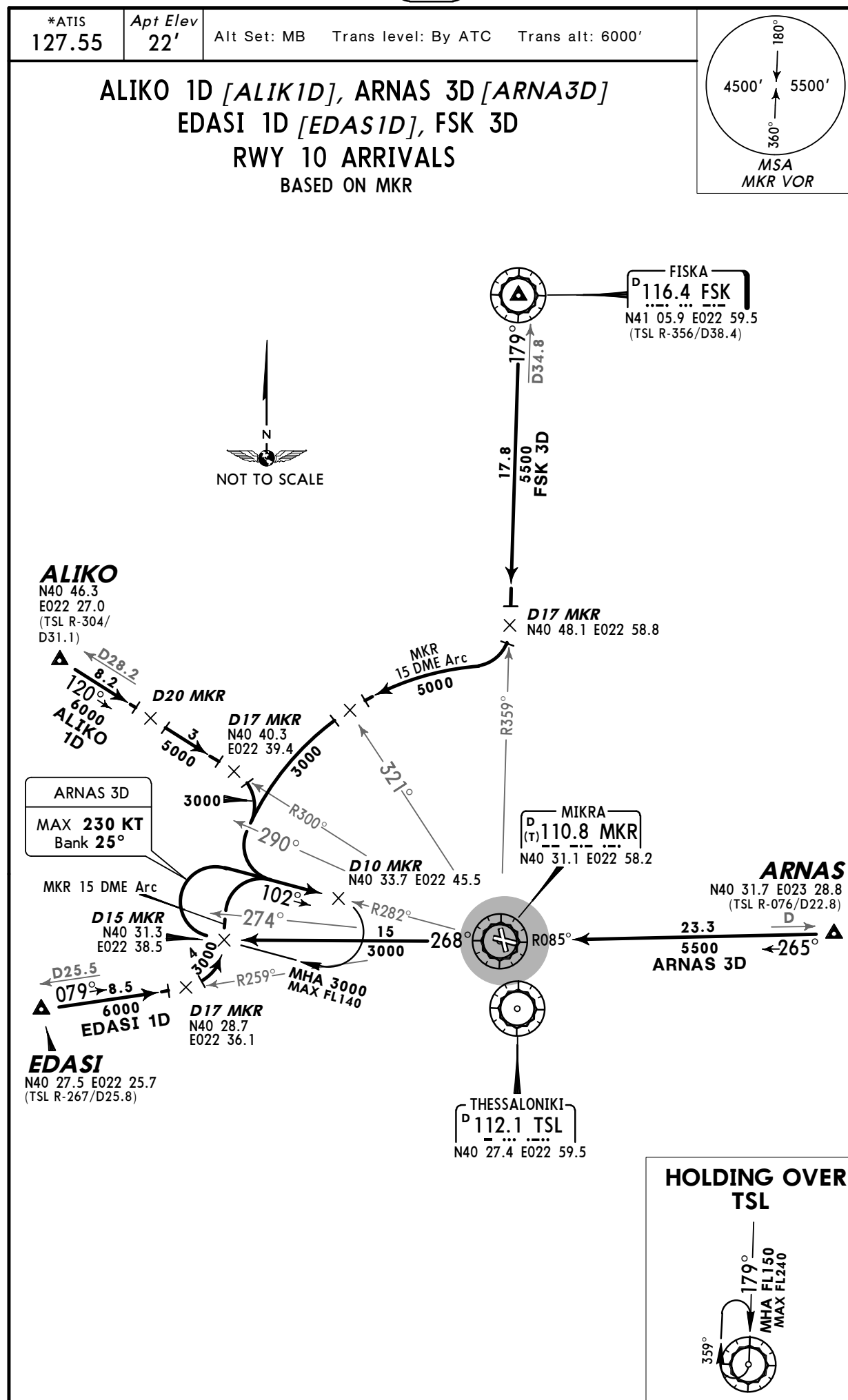
All VFR flights operating within Thessaloniki TMA shall always carry a properly functioning SSR Transponder with the capability of Mode A/3 and Mode C. If such a Transponder is not available or if it is not functional special permission shall be requested by Thessaloniki ATC Tel (031) 985151.

A deviation from the routes and altitudes affords a clearance from MAKEDONIA APP prior entering Makedonia TMA or immediately after departure.

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 26 AUG 05 **10-2**

THESSALONIKI, GREECE
STAR



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MAKEDONIA

JEPPesen
26 AUG 05 **(10-2A)**

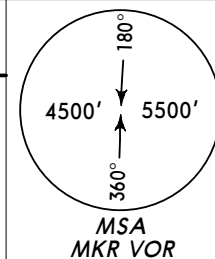
THESSALONIKI, GREECE

STAR

*ATIS
127.55

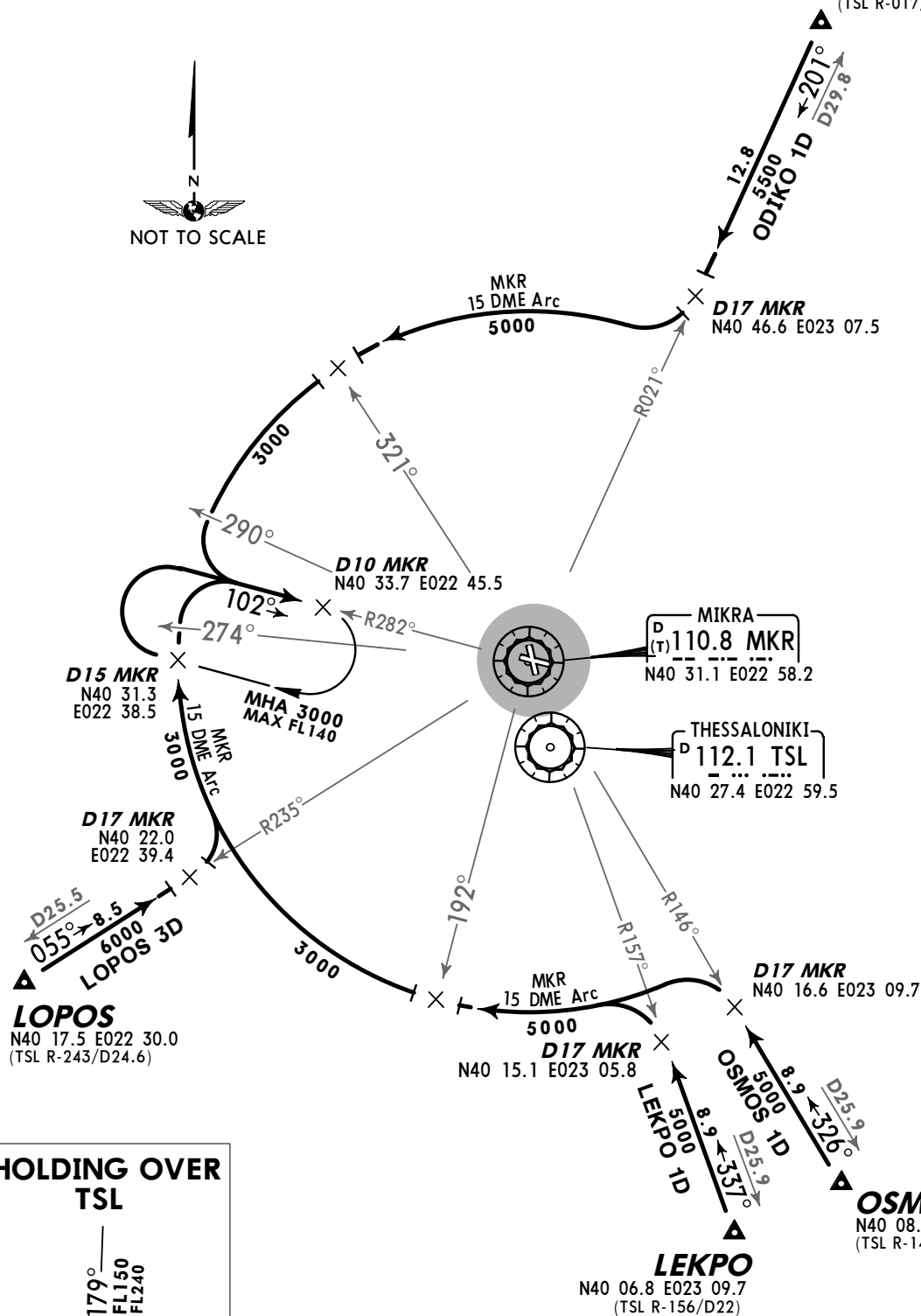
Apt Elev
22'

Alt Set: MB
Trans level: By ATC Trans alt: 6000'



LEKPO 1D [LEKP1D], LOPOS 3D [LOPO3D]
ODIKO 1D [ODIK1D], OSMOS 1D [OSMO1D]
RWY 10 ARRIVALS
BASED ON MKR

ODIKO
N40 58.3 E023 14.5
(TSL R-017/D32.9)



HOLDING OVER
TSL



LGTS/SKG
MAKEDONIA

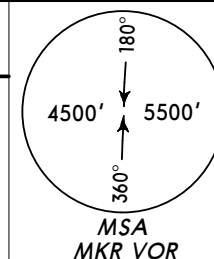
JEPPESEN
 26 AUG 05 **(10-2B)**

THESSALONIKI, GREECE
STAR

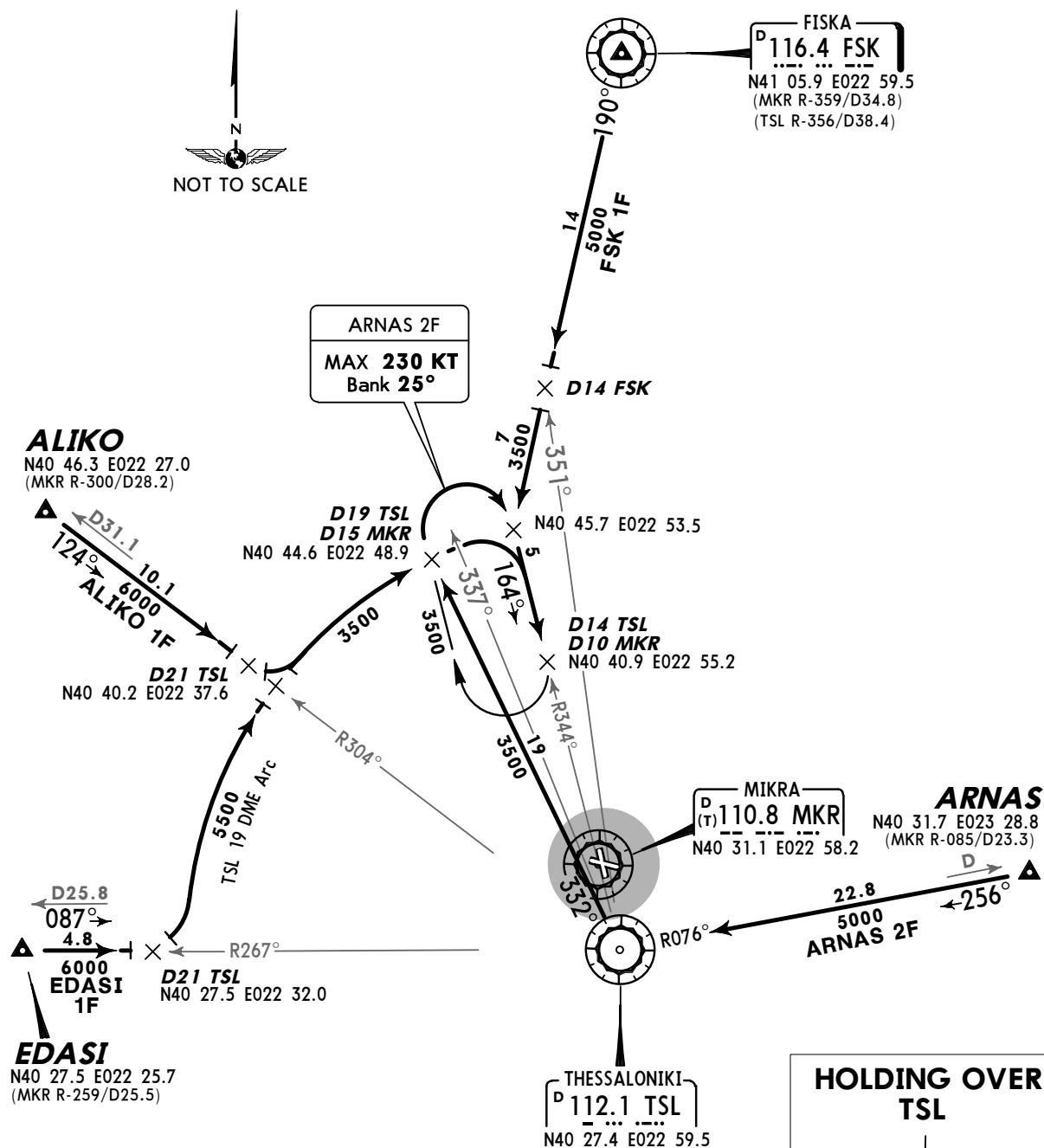
*ATIS
 127.55

Apt Elev
 22'

Alt Set: MB Trans level: By ATC Trans alt: 6000'



ALIKO 1F [ALIK1F], ARNAS 2F [ARNA2F]
EDASI 1F [EDAS1F], FSK 1F
RWY 16 ARRIVALS
 BASED ON TSL



HOLDING OVER TSL



LGTS/SKG
MAKEDONIA

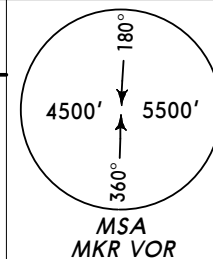
JEPPesen
26 AUG 05 **(10-2C)**

THESSALONIKI, GREECE
STAR

*ATIS
127.55

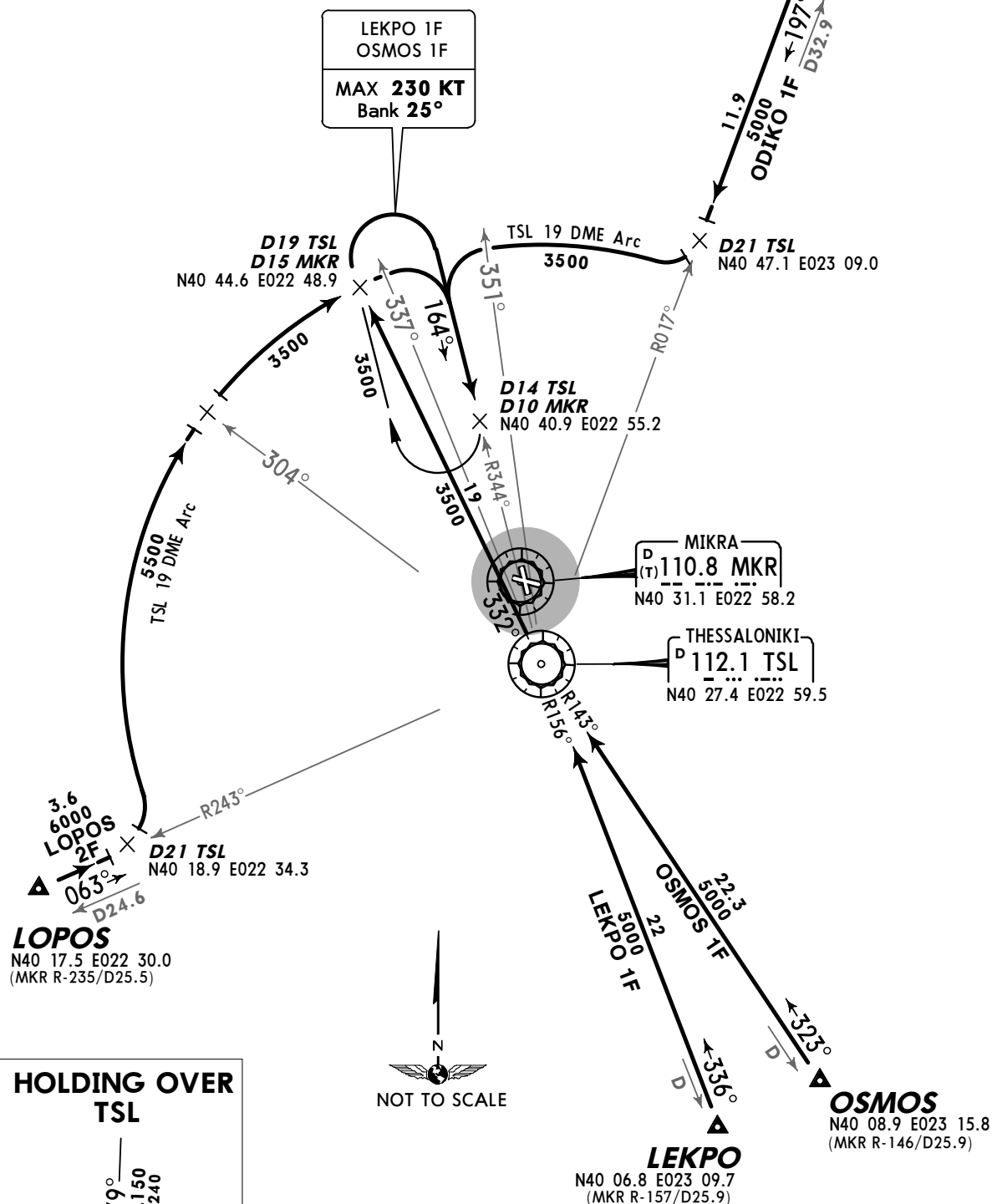
Apt Elev
22'

Alt Set: MB
Trans level: By ATC Trans alt: 6000'



LEKPO 1F [LEKP1F], LOPOS 2F [LOPO2F]
ODIKO 1F [ODIK1F], OSMOS 1F [OSMO1F]
RWY 16 ARRIVALS
BASED ON TSL

ODIKO
N40 58.3 E023 14.5
(MKR R-021/D29.8)



HOLDING OVER TSL



NOT TO SCALE

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MAKEDONIA**



THESSALONIKI, GREECE

STAR

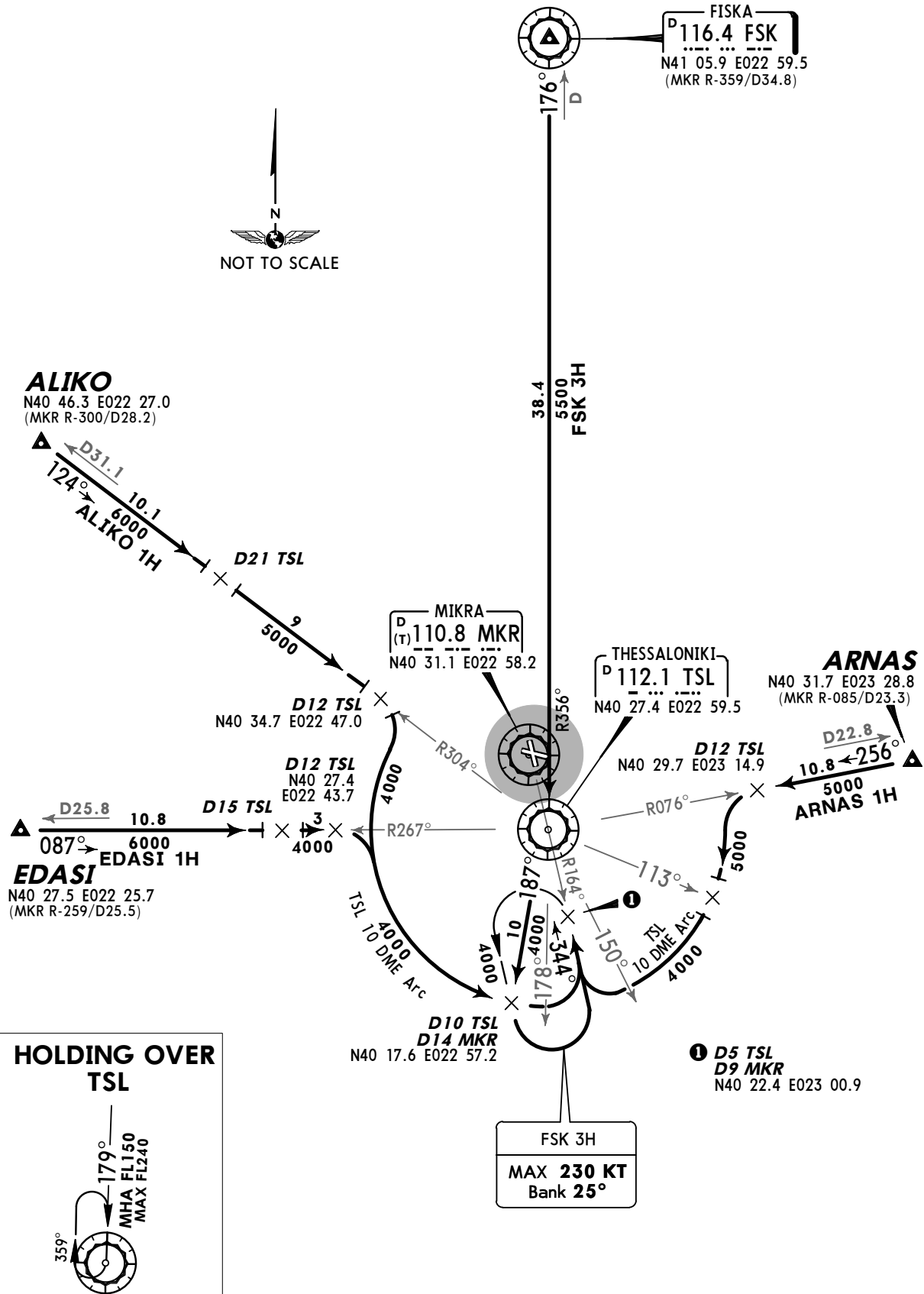
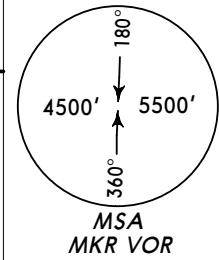
26 AUG 05 (10-2D)

*ATIS
127.55

Apt Elev
22'

Alt Set: MB Trans level: By ATC Trans alt: 6000'

**ALIKO 1H [ALIK1H], ARNAS 1H [ARNA1H]
EDASI 1H [EDAS1H], FSK 3H
RWY 34 ARRIVALS
BASED ON TSL**

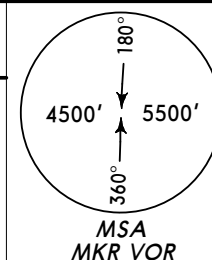


LGTS/SKG
MAKEDONIA

JEPPESSEN
 26 AUG 05 **(10-2E)**

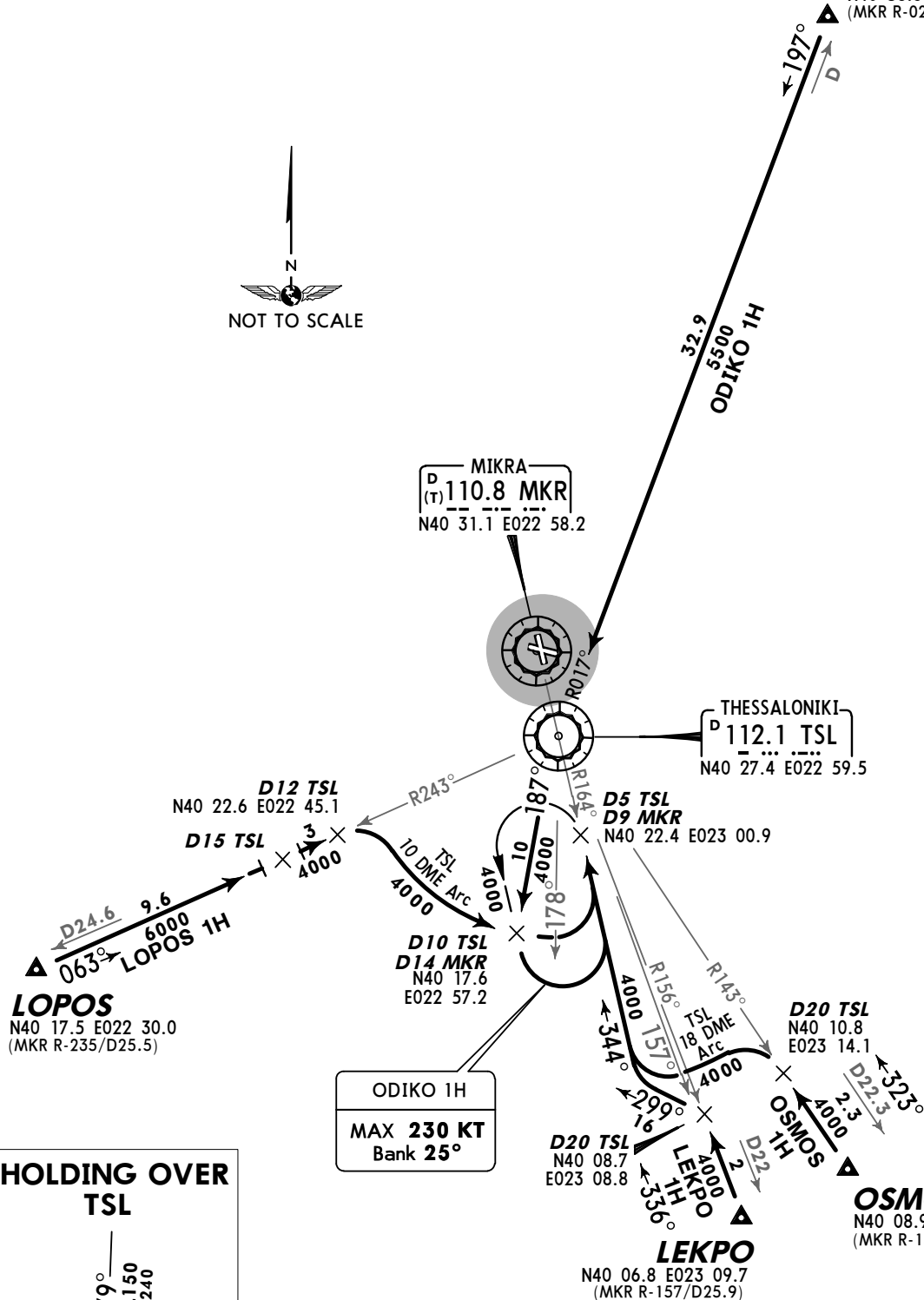
THESSALONIKI, GREECE
STAR

*ATIS 127.55	Apt Elev 22'	Alt Set: MB Trans level: By ATC Trans alt: 6000'
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LEKPO 1H [LEKP1H], LOPOS 1H [LOPO1H]
ODIKO 1H [ODIK1H], OSMOS 1H [OSMO1H]
RWY 34 ARRIVALS
BASED ON TSL

ODIKO
 N40 58.3 E023 14.5
 (MKR R-021/D29.8)



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JEPPESEN
26 AUG 05 (10-2F)

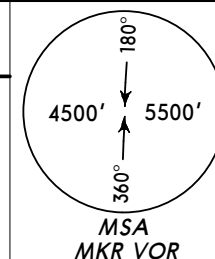
THESSALONIKI, GREECE

STAR

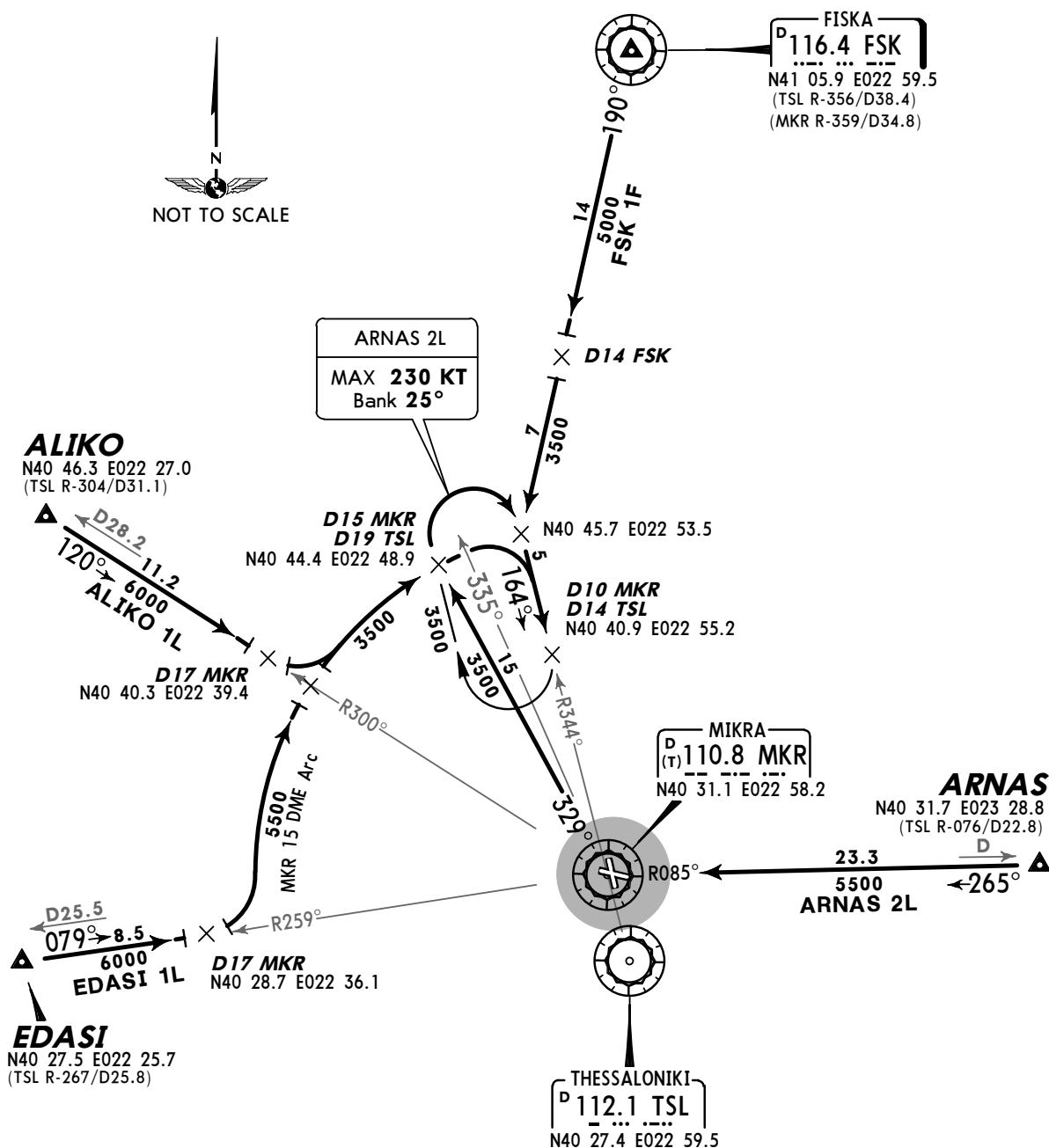
*ATIS
127.55

Apt Elev
22'

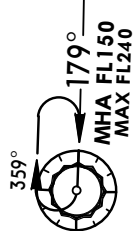
Alt Set: MB Trans level: By ATC Trans alt: 6000'



**ALIKO 1L [ALIK1L], ARNAS 2L [ARNA2L]
EDASI 1L [EDAS1L], FSK 1F
RWY 16 ARRIVALS
BASED ON MKR**



HOLDING OVER TSL



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THESSALONIKI, GREECE

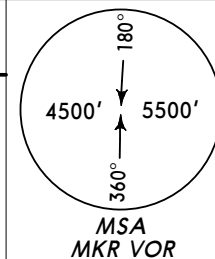
STAR

26 AUG 05 (10-2G)

*ATIS
127.55

Apt Elev
22'

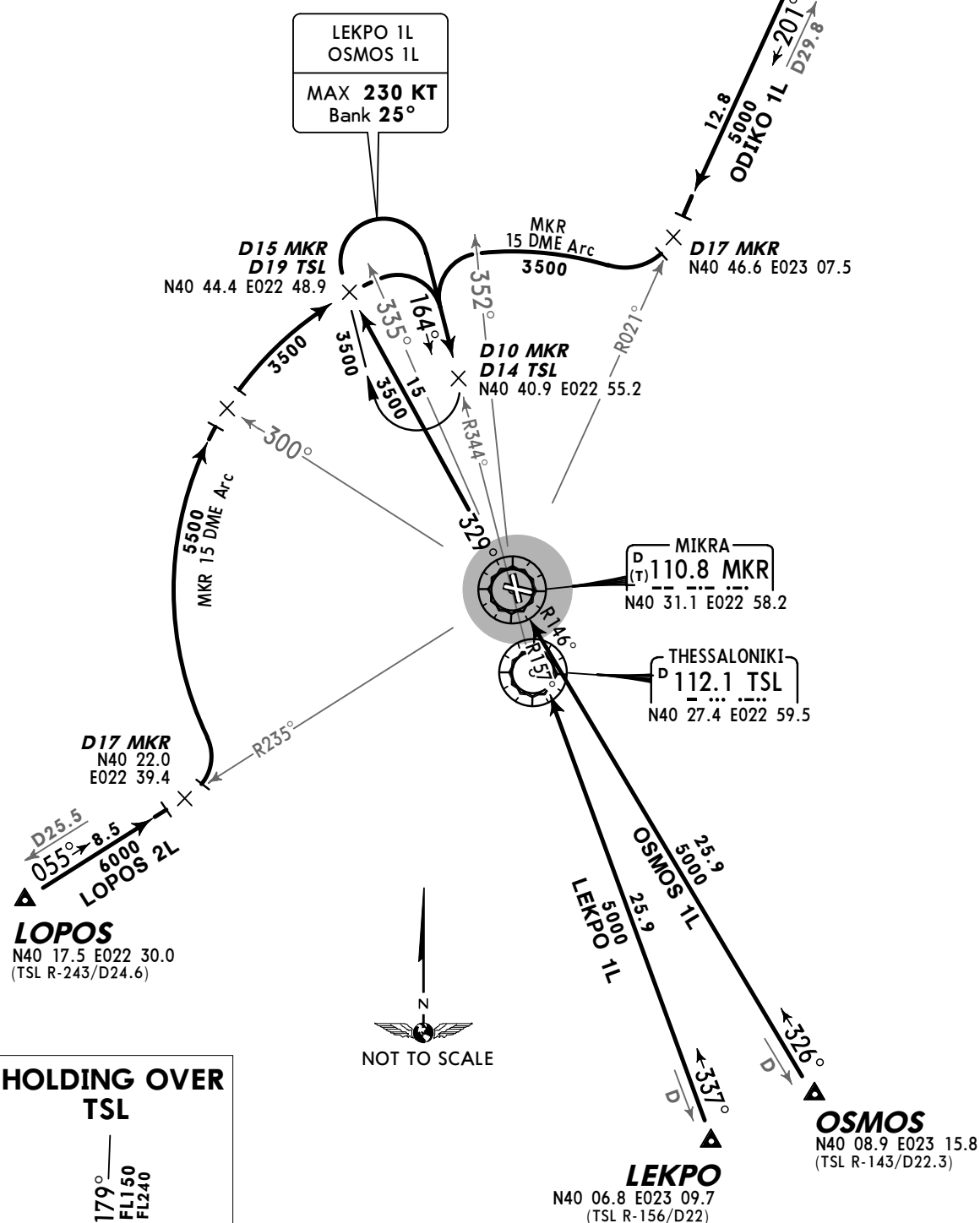
Alt Set: MB
Trans level: By ATC Trans alt: 6000'



LEKPO 1L [*LEKP1L*], LOPOS 2L [*LOPO2L*]
ODIKO 1L [*ODIK1L*], OSMOS 1L [*OSMO1L*]
RWY 16 ARRIVALS
BASED ON MKR

ODIKO

N40 58.3 E023 14.5
(TSL R-017/D32.9)



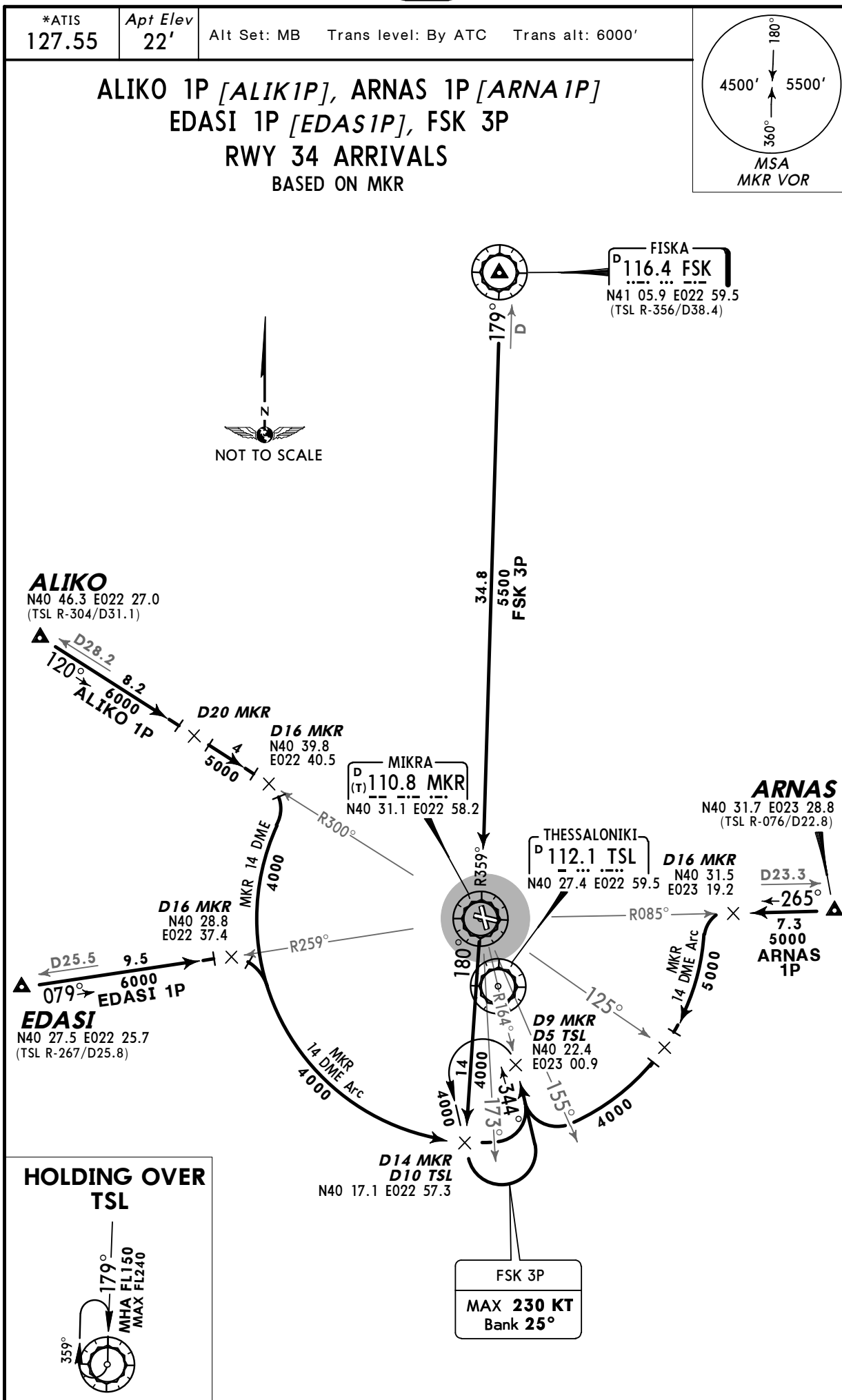
HOLDING OVER TSL



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JEPPESEN
 26 AUG 05 **(10-2H)**

THESSALONIKI, GREECE
STAR



LGTS/SKG
MAKEDONIA

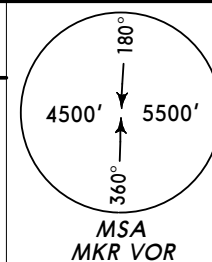
JEPPesen
 26 AUG 05 **(10-2J)**

THESSALONIKI, GREECE
STAR

*ATIS
127.55

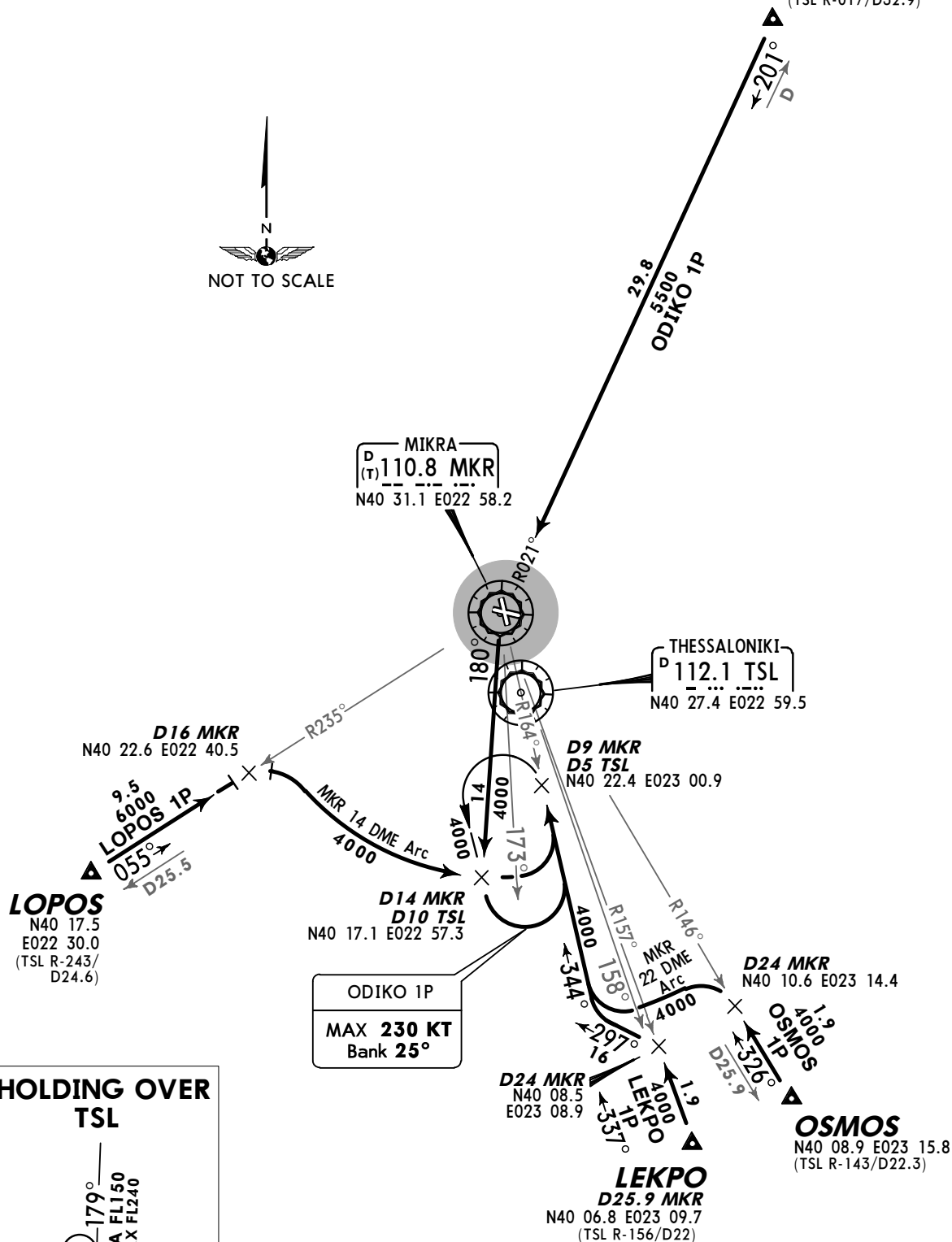
Apt Elev
22'

Alt Set: MB
 Trans level: By ATC Trans alt: 6000'



LEKPO 1P [LEKP1P], LOPOS 1P [LOPO1P]
ODIKO 1P [ODIK1P], OSMOS 1P [OSMO1P]
RWY 34 ARRIVALS
BASED ON MKR

ODIKO
 N40 58.3 E023 14.5
 (TSL R-017/D32.9)



LGTS/SKG
MAKEDONIA**JEPPESEN****THESSALONIKI, GREECE**

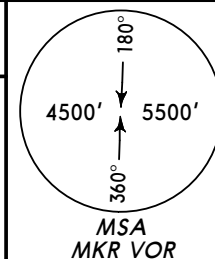
2 JUL 04

10-3

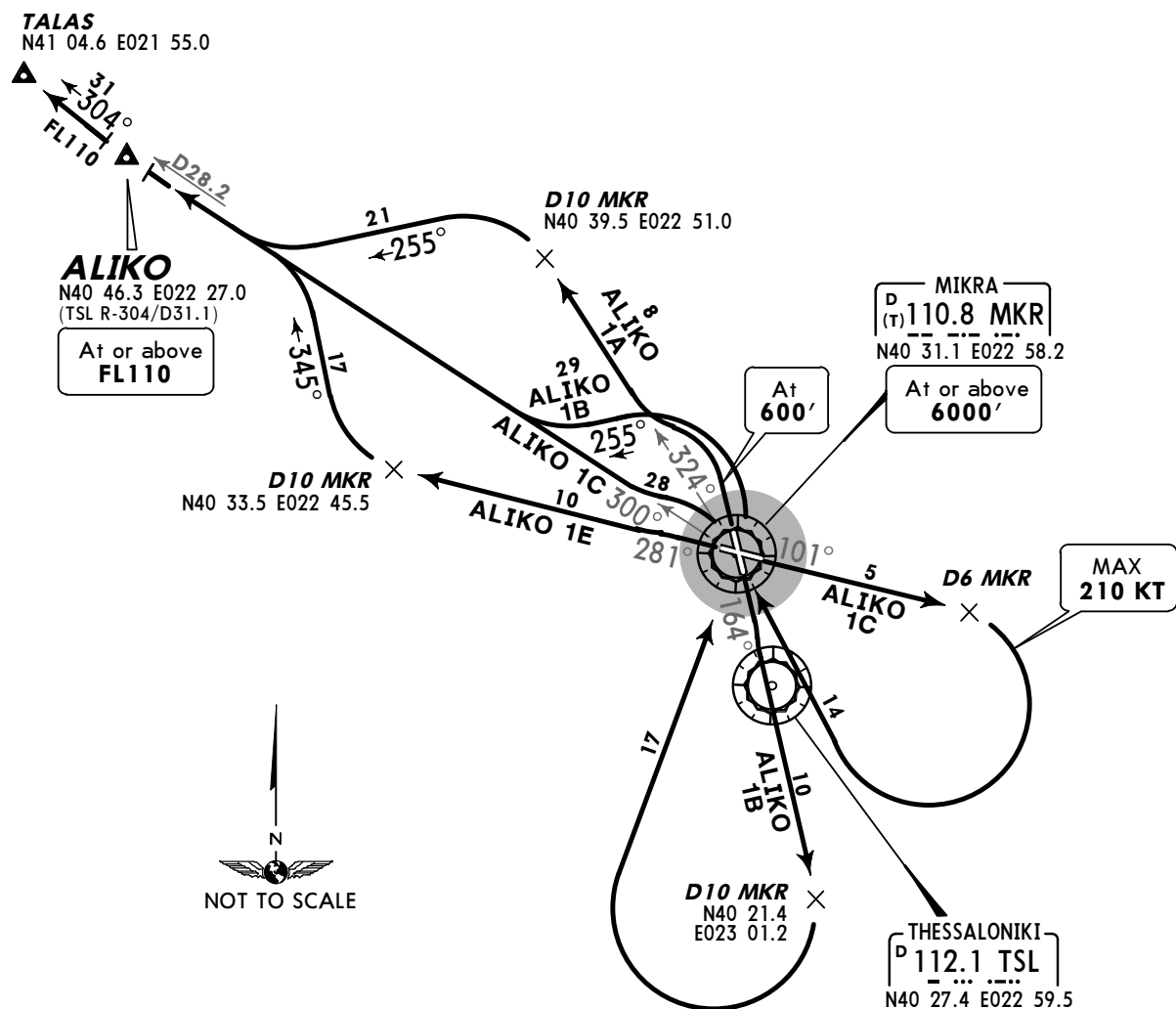
Eff 8 Jul

SIDApt Elev
22'

Trans level: By ATC Trans alt: 6000'



ALIKO ONE ALFA (ALIKO 1A) [ALIK1A]
ALIKO ONE BRAVO (ALIKO 1B) [ALIK1B]
ALIKO ONE CHARLIE (ALIKO 1C) [ALIK1C]
ALIKO ONE ECHO (ALIKO 1E) [ALIK1E]
RWYS 34, 16, 10, 28 DEPARTURES



These SIDs require minimum climb gradients of

ALIKO 1A: 316' per NM (5.2%) up to **FL110**.
ALIKO 1B: 365' per NM (6%) up to **1200'**, then 304' per NM (5%) up to **MEA**.
ALIKO 1C: 334' per NM (5.5%) up to **6000'**.
ALIKO 1E: 371' per NM (6.1%) up to **FL110**.

Gnd speed-KT	75	100	150	200	250	300
371' per NM	463	618	927	1235	1544	1853
365' per NM	456	608	911	1215	1519	1823
334' per NM	418	557	835	1114	1392	1671
316' per NM	395	527	790	1053	1317	1580
304' per NM	380	506	760	1013	1266	1519

Minimum bank angle 15°.

ALIKO 1A, 1B, 1E: MAX 250 KT during turns.

SID	RWY	ROUTING
ALIKO 1A	34	Climb to 600' , turn LEFT, intercept MKR R-324 to D10 MKR, turn LEFT, 255° track, intercept MKR R-300 to ALIKO.
ALIKO 1B	16	Intercept MKR R-164 to D10 MKR, turn RIGHT to MKR, turn LEFT, 255° track, intercept MKR R-300 to ALIKO.
ALIKO 1C	10	Intercept MKR R-101 to D6 MKR, turn RIGHT to MKR, turn LEFT, intercept MKR R-300 to ALIKO.
ALIKO 1E	28	Intercept MKR R-281 to D10 MKR, turn RIGHT, 345° track, intercept MKR R-300 to ALIKO.

**LGTS/SKG
MAKEDONIA**

THESSALONIKI, GREECE

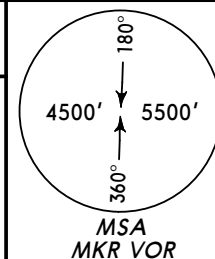
2 JUL 04

10-3A

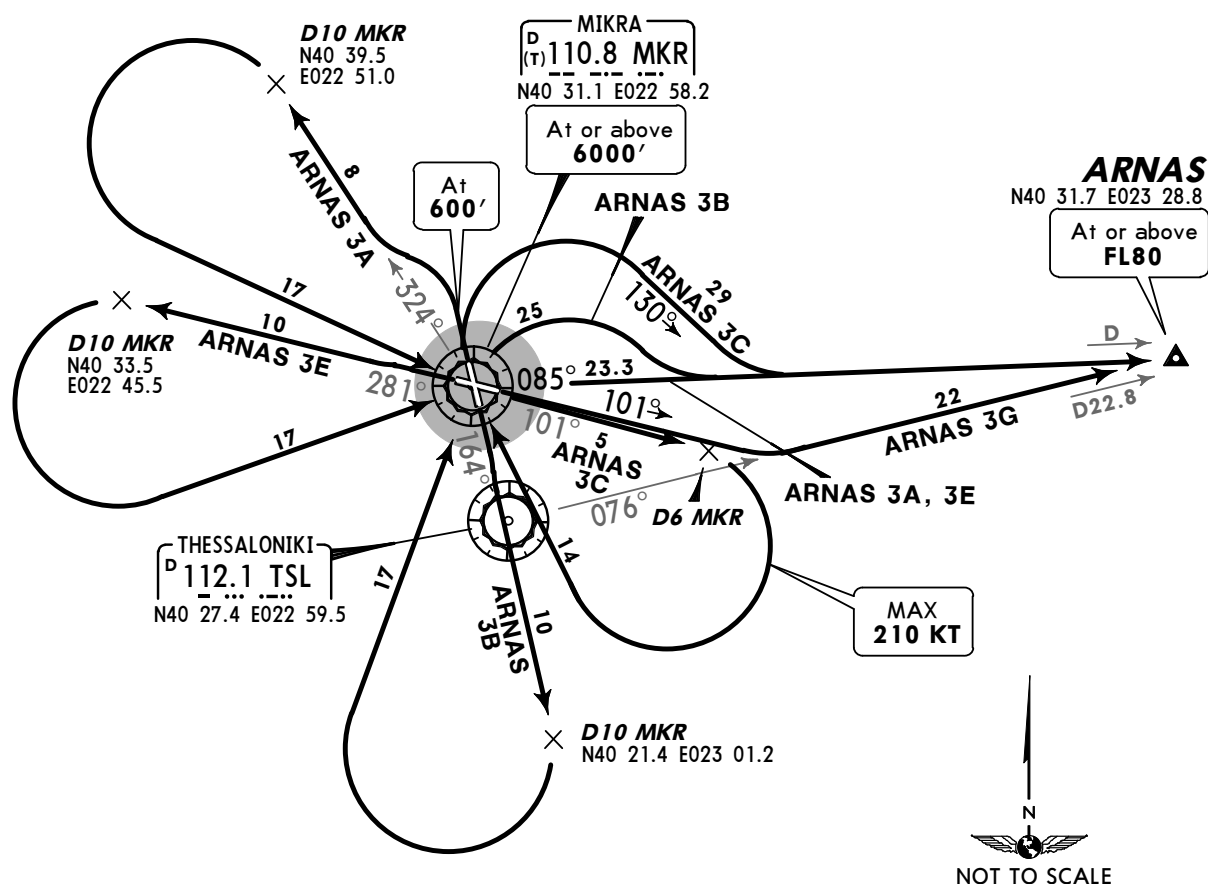
Eff 8 Jul**SID**

Apt Elev
22'

Trans level: By ATC Trans alt: 6000'



ARNAS THREE ALFA (ARNAS 3A) [ARNA3A]
ARNAS THREE BRAVO (ARNAS 3B) [ARNA3B]
ARNAS THREE CHARLIE (ARNAS 3C) [ARNA3C]
ARNAS THREE ECHO (ARNAS 3E) [ARNA3E]
ARNAS THREE GOLF (ARNAS 3G) [ARNA3G]
RWYS 34, 16, 10, 28 DEPARTURES



These SIDs require minimum climb gradients of

ARNAS 3A: 316' per NM (5.2%) up to **FL80.**

ARNAS 3B: 365' per NM (6%) up to **1200'**, then 304' per NM (5%) up to **MEA.**

ARNAS 3C: 334' per NM (5.5%) up to **6000'**.

ARNAS 3E: 304' per NM (5%) up to **FL80.**

ARNAS 3G: 395' per NM (6.5%) up to **FL80.**

Gnd speed-KT	75	100	150	200	250	300
395' per NM	494	658	987	1317	1646	1975
365' per NM	456	608	911	1215	1519	1823
334' per NM	418	557	835	1114	1392	1671
316' per NM	395	527	790	1053	1317	1580
304' per NM	380	506	760	1013	1266	1519

Minimum bank angle 15°.

ARNAS 3A, 3B, 3E, 3G: MAX 250 KT during turns.

SID	RWY	ROUTING
ARNAS 3A	34	Climb to 600' , turn LEFT , intercept MKR R-324 to D10 MKR, turn LEFT to MKR, turn LEFT , MKR R-085 to ARNAS.
ARNAS 3B	16	Intercept MKR R-164 to D10 MKR, turn RIGHT to MKR, turn RIGHT , intercept MKR R-085 to ARNAS.
ARNAS 3C	10	Intercept MKR R-101 to D6 MKR, turn RIGHT to MKR, turn RIGHT , 130° track, intercept MKR R-085 to ARNAS.
ARNAS 3E	28	Intercept MKR R-281 to D10 MKR, turn LEFT to MKR, turn RIGHT , MKR R-085 to ARNAS.
ARNAS 3G	10	On 101° track, intercept TSL R-076 to ARNAS.

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THESSALONIKI, GREECE

2 JUL 04

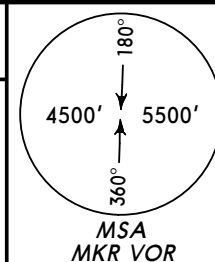
10-3B

Eff 8 Jul

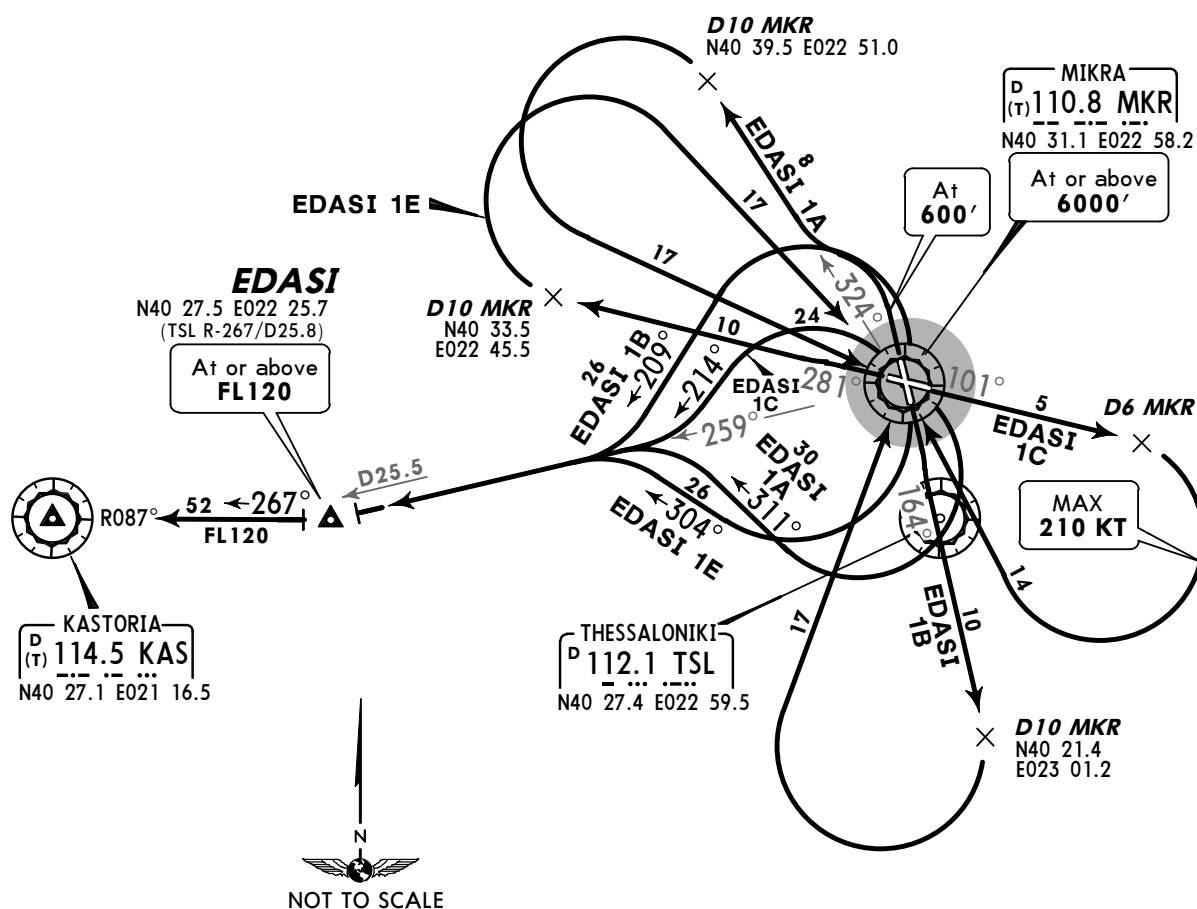
SID

Apt Elev
22'

Trans level: By ATC Trans alt: 6000'



EDASI ONE ALFA (EDASI 1A) [EDAS1A]
EDASI ONE BRAVO (EDASI 1B) [EDAS1B]
EDASI ONE CHARLIE (EDASI 1C) [EDAS1C]
EDASI ONE ECHO (EDASI 1E) [EDAS1E]
RWYS 34, 16, 10, 28 DEPARTURES



These SIDs require minimum climb gradients of

EDASI 1A: 316' per NM (5.2%) up to **FL120**.
EDASI 1B: 365' per NM (6%) up to **1200'**, then 304' per NM (5%) up to **MEA**.
EDASI 1C: 334' per NM (5.5%) up to **6000'**, then 225' per NM (3.7%) up to **FL120** for ATC purposes.
EDASI 1E: 304' per NM (5%) up to **FL120**.

Gnd speed-KT	75	100	150	200	250	300
365' per NM	456	608	911	1215	1519	1823
334' per NM	418	557	835	1114	1392	1671
316' per NM	395	527	790	1053	1317	1580
304' per NM	380	506	760	1013	1266	1519
225' per NM	281	375	562	749	937	1124

Minimum bank angle 15°.

EDASI 1A, 1B, 1E: MAX 250 KT during turns.

SID	RWY	ROUTING
EDASI 1A	34	Climb to 600' , turn LEFT , intercept MKR R-324 to D10 MKR, turn LEFT to MKR, turn RIGHT , 311° track, intercept MKR R-259 to EDASI.
EDASI 1B	16	Intercept MKR R-164 to D10 MKR, turn RIGHT to MKR, turn LEFT , 209° track, intercept MKR R-259 to EDASI.
EDASI 1C	10	Intercept MKR R-101 to D6 MKR, turn RIGHT to MKR, turn LEFT , 214° track, intercept MKR R-259 to EDASI.
EDASI 1E	28	Intercept MKR R-281 to D10 MKR, turn RIGHT to MKR, turn RIGHT , 304° track, intercept MKR R-259 to EDASI.

CHANGES: SIDs completely revised; new format.

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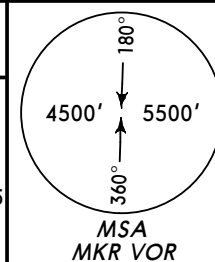
LGTS/SKG
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JEPPESEN
2 JUL 04 **(10-3C)** **Eff 8 Jul**

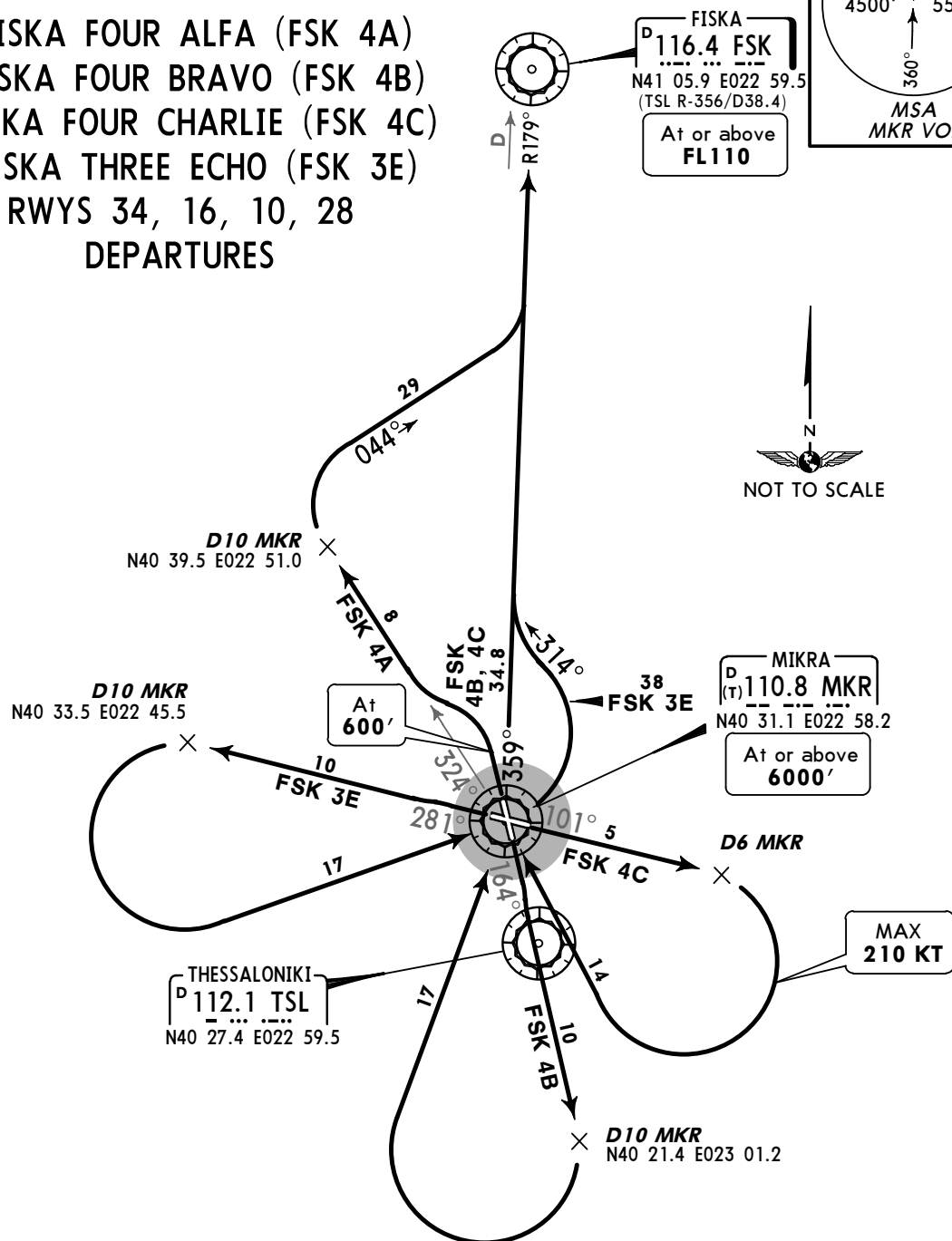
THESSALONIKI, GREECE
SID

Apt Elev
22'

Trans level: By ATC Trans alt: 6000'



FISKA FOUR ALFA (FSK 4A)
FISKA FOUR BRAVO (FSK 4B)
FISKA FOUR CHARLIE (FSK 4C)
FISKA THREE ECHO (FSK 3E)
RWYS 34, 16, 10, 28
DEPARTURES



These SIDs require minimum climb gradients of

FSK 4A: 316' per NM (5.2%) up to **FL110**.
FSK 4B: 365' per NM (6%) up to **1200'**, then 304' per NM (5%) up to **MEA**.
FSK 4C: 334' per NM (5.5%) up to **6000'**.
FSK 3E: 304' per NM (5%) up to **FL110**.

Gnd speed-KT	75	100	150	200	250	300
365' per NM	456	608	911	1215	1519	1823
334' per NM	418	557	835	1114	1392	1671
316' per NM	395	527	790	1053	1317	1580
304' per NM	380	506	760	1013	1266	1519

Minimum bank angle 15°.
FSK 4A, 4B, 3E: MAX 250 KT during turns.

SID	RWY	ROUTING
FSK 4A	34	Climb to 600' , turn LEFT, intercept MKR R-324 to D10 MKR, turn RIGHT, 044° track, intercept MKR R-359 to FSK.
FSK 4B	16	Intercept MKR R-164 to D10 MKR, turn RIGHT to MKR, turn LEFT, MKR R-359 to FSK.
FSK 4C	10	Intercept MKR R-101 to D6 MKR, turn RIGHT to MKR, turn RIGHT, MKR R-359 to FSK.
FSK 3E	28	Intercept MKR R-281 to D10 MKR, turn LEFT to MKR, turn LEFT, 314° track, intercept MKR R-359 to FSK.

CHANGES: SIDs completely revised; new format.

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2 JUL 04

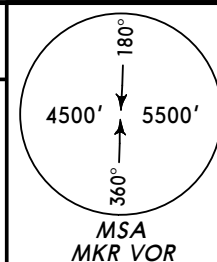
(10-3D)

Eff 8 Jul

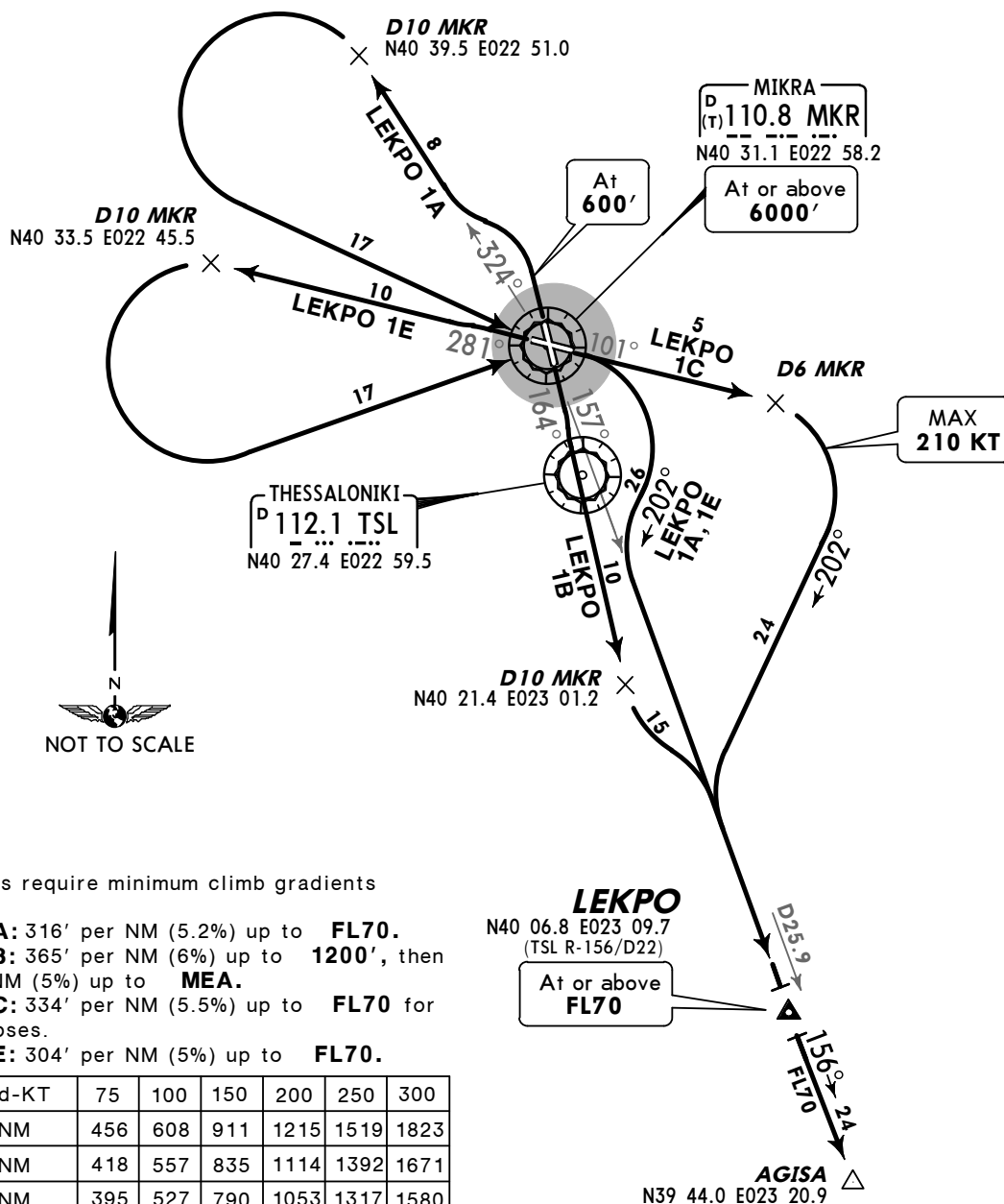
SID

Apt Elev
22'

Trans level: By ATC Trans alt: 6000'



LEKPO ONE ALFA (LEKPO 1A) [LEKP1A]
LEKPO ONE BRAVO (LEKPO 1B) [LEKP1B]
LEKPO ONE CHARLIE (LEKPO 1C) [LEKP1C]
LEKPO ONE ECHO (LEKPO 1E) [LEKP1E]
RWYS 34, 16, 10, 28 DEPARTURES



These SIDs require minimum climb gradients of

LEKPO 1A: 316' per NM (5.2%) up to **FL70**.

LEKPO 1B: 365' per NM (6%) up to **1200'**, then 304' per NM (5%) up to **MEA**.

LEKPO 1C: 334' per NM (5.5%) up to **FL70** for ATC purposes.

LEKPO 1E: 304' per NM (5%) up to **FL70**.

Gnd speed-KT	75	100	150	200	250	300
365' per NM	456	608	911	1215	1519	1823
334' per NM	418	557	835	1114	1392	1671
316' per NM	395	527	790	1053	1317	1580
304' per NM	380	506	760	1013	1266	1519

Minimum bank angle 15°.

LEKPO 1A, 1B, 1E: MAX 250 KT during turns.

SID	RWY	ROUTING
LEKPO 1A	34	Climb to 600' , turn LEFT , intercept MKR R-324 to D10 MKR, turn LEFT to MKR, turn RIGHT , 202° track, intercept MKR R-157 to LEKPO.
LEKPO 1B	16	Intercept MKR R-164 to D10 MKR, turn LEFT , intercept MKR R-157 to LEKPO.
LEKPO 1C	10	Intercept MKR R-101 to D6 MKR, turn RIGHT , 202° track, intercept MKR R-157 to LEKPO.
LEKPO 1E	28	Intercept MKR R-281 to D10 MKR, turn LEFT to MKR, turn RIGHT , 202° track, intercept MKR R-157 to LEKPO.

LGTS/SKG
MAKEDONIA

JEPPESSEN

THESSALONIKI, GREECE

2 JUL 04

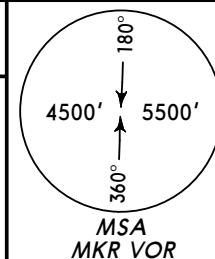
10-3E

Eff 8 Jul

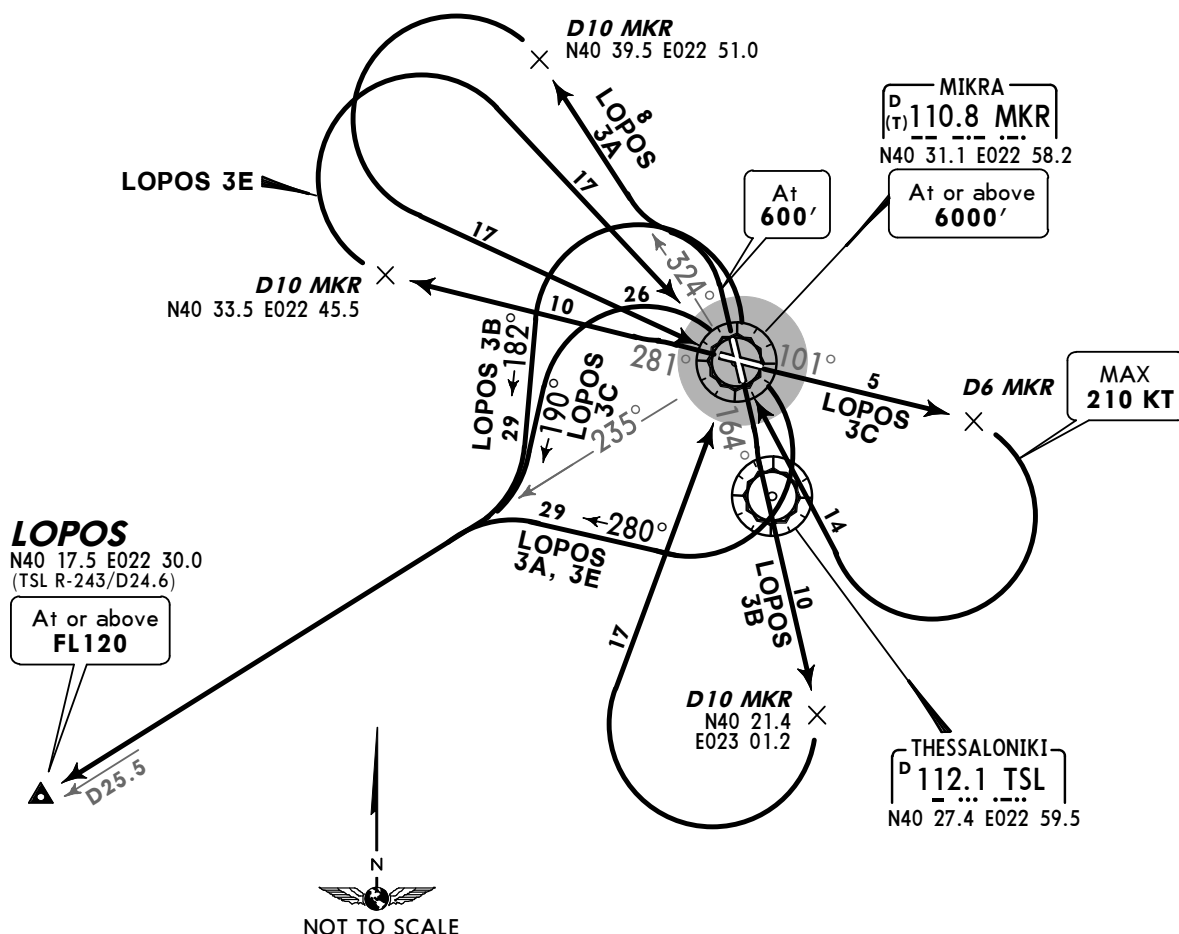
SID

Apt Elev
22'

Trans level: By ATC Trans alt: 6000'



LOPOS THREE ALFA (LOPOS 3A) [LOPO3A]
LOPOS THREE BRAVO (LOPOS 3B) [LOPO3B]
LOPOS THREE CHARLIE (LOPOS 3C) [LOPO3C]
LOPOS THREE ECHO (LOPOS 3E) [LOPO3E]
RWYS 34, 16, 10, 28 DEPARTURES



These SIDs require minimum climb gradients of

LOPOS 3A: 316' per NM (5.2%) up to **FL120**.
LOPOS 3B: 365' per NM (6%) up to **1200'**, then 304' per NM (5%) up to **MEA**.
LOPOS 3C: 334' per NM (5.5%) up to **6000'**.
LOPOS 3E: 304' per NM (5%) up to **FL120**.

Gnd speed-KT	75	100	150	200	250	300
365' per NM	456	608	911	1215	1519	1823
334' per NM	418	557	835	1114	1392	1671
316' per NM	395	527	790	1053	1317	1580
304' per NM	380	506	760	1013	1266	1519

Minimum bank angle 15°.

LOPOS 3A, 3B, 3E: MAX 250 KT during turns.

SID	RWY	ROUTING
LOPOS 3A	34	Climb to 600' , turn LEFT , intercept MKR R-324 to D10 MKR, turn LEFT to MKR, turn RIGHT , 280° track, intercept MKR R-235 to LOPOS.
LOPOS 3B	16	Intercept MKR R-164 to D10 MKR, turn RIGHT to MKR, turn LEFT , 182° track, intercept MKR R-235 to LOPOS.
LOPOS 3C	10	Intercept MKR R-101 to D6 MKR, turn RIGHT to MKR, turn LEFT , 190° track, intercept MKR R-235 to LOPOS.
LOPOS 3E	28	Intercept MKR R-281 to D10 MKR, turn RIGHT to MKR, turn RIGHT , 280° track, intercept MKR R-235 to LOPOS.

CHANGES: SIDs completely revised; new format.

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LGTS/SKG
MAKEDONIA**JEPPESEN****THESSALONIKI, GREECE**

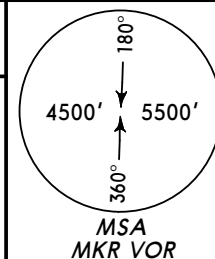
2 JUL 04

(10-3F)

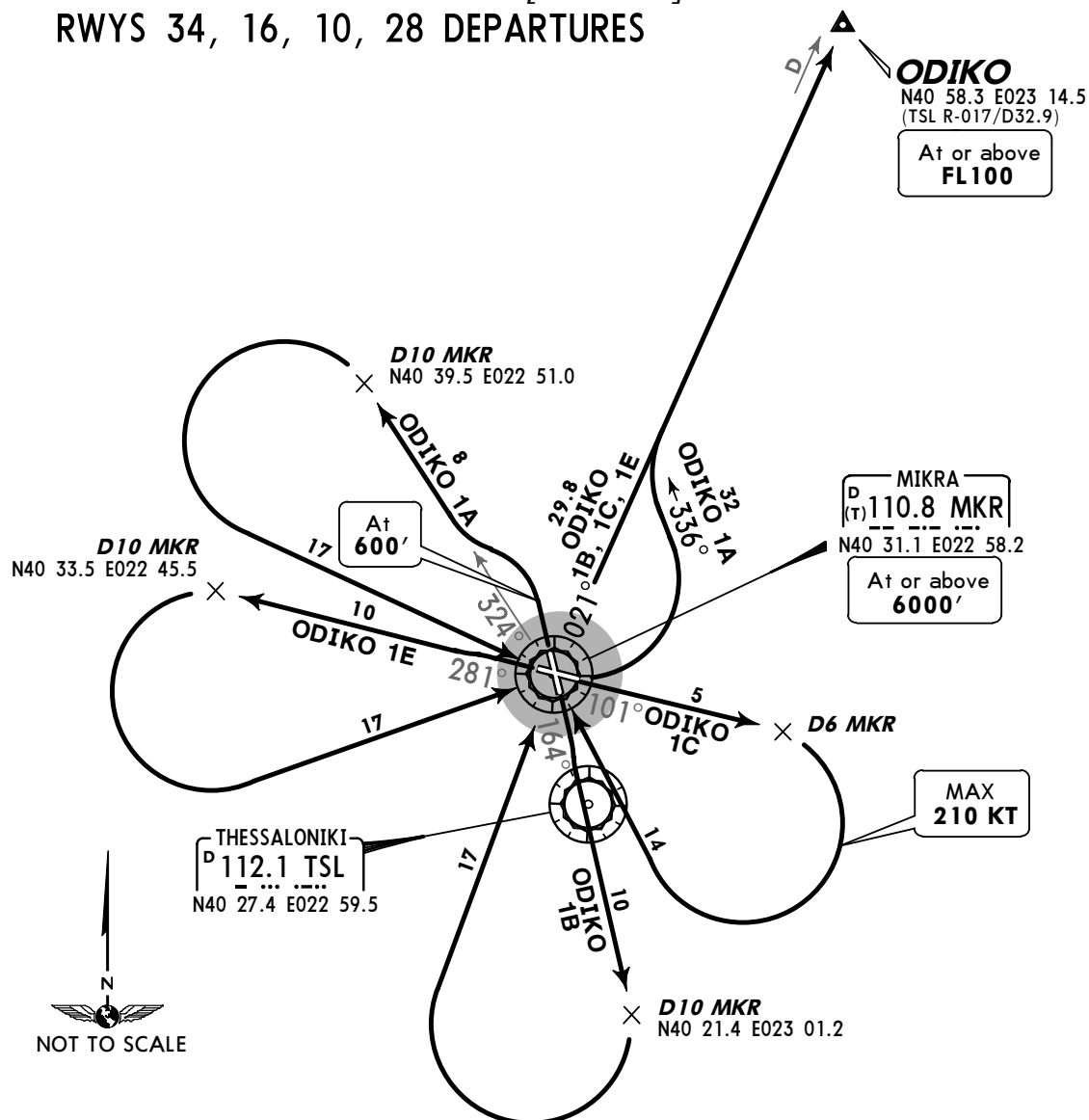
Eff 8 Jul

SIDApt Elev
22'

Trans level: By ATC Trans alt: 6000'



ODIKO ONE ALFA (ODIKO 1A) [ODIK1A]
ODIKO ONE BRAVO (ODIKO 1B) [ODIK1B]
ODIKO ONE CHARLIE (ODIKO 1C) [ODIK1C]
ODIKO ONE ECHO (ODIKO 1E) [ODIK1E]
RWYS 34, 16, 10, 28 DEPARTURES



These SIDs require minimum climb gradients
of

ODIKO 1A: 316' per NM (5.2%) up to **FL100**.

ODIKO 1B: 365' per NM (6%) up to **1200'**, then
304' per NM (5%) up to **MEA**.

ODIKO 1C: 334' per NM (5.5%) up to **6000'**.

ODIKO 1E: 304' per NM (5%) up to **FL100**.

Gnd speed-KT	75	100	150	200	250	300
365' per NM	456	608	911	1215	1519	1823
334' per NM	418	557	835	1114	1392	1671
316' per NM	395	527	790	1053	1317	1580
304' per NM	380	506	760	1013	1266	1519

Minimum bank angle 15°.

ODIKO 1A, 1B, 1E: MAX 250 KT during turns.

SID	RWY	ROUTING
ODIKO 1A	34	Climb to 600' , turn LEFT, intercept MKR R-324 to D10 MKR, turn LEFT to MKR, turn LEFT, 336° track, intercept MKR R-021 to ODIKO.
ODIKO 1B	16	Intercept MKR R-164 to D10 MKR, turn RIGHT to MKR, MKR R-021 to ODIKO.
ODIKO 1C	10	Intercept MKR R-101 to D6 MKR, turn RIGHT to MKR, turn RIGHT, MKR R-021 to ODIKO.
ODIKO 1E	28	Intercept MKR R-281 to D10 MKR, turn LEFT to MKR, turn LEFT, MKR R-021 to ODIKO.

CHANGES: SIDs completely revised; new format.

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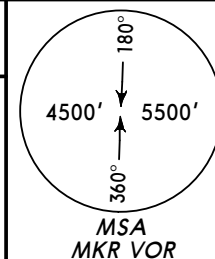
LGTS/SKG
MAKEDONIA

JEPPesen **THESSALONIKI, GREECE**
2 JUL 04 **(10-3G)** **Eff 8 Jul**

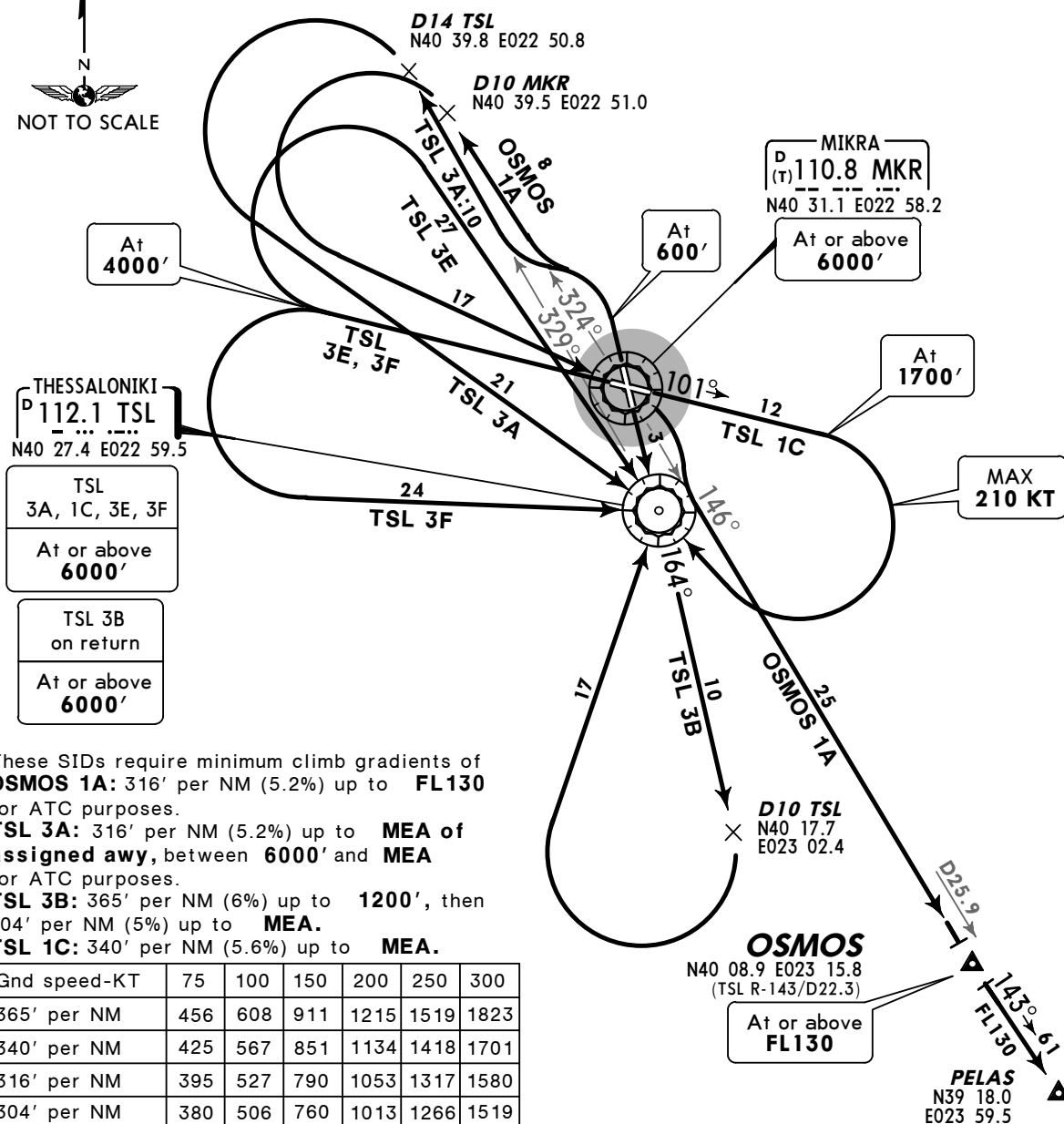
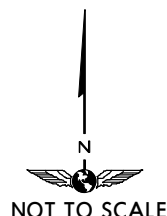
SID

Apt Elev
22'

Trans level: By ATC Trans alt: 6000'



OSMOS ONE ALFA (OSMOS 1A) [OSMO1A]
THESSALONIKI THREE ALFA (TSL 3A)
THESSALONIKI THREE BRAVO (TSL 3B)
THESSALONIKI ONE CHARLIE (TSL 1C)
THESSALONIKI THREE ECHO (TSL 3E)
THESSALONIKI THREE FOXTROT (TSL 3F)
RWYS 34, 16, 10, 28 DEPARTURES



Minimum bank angle 15°.

OSMOS 1A, TSL 3A, 3B, 3E, 3F: MAX 250 KT during turns.

SID	RWY	ROUTING
OSMOS 1A	34	Climb to 600' , turn LEFT, intercept MKR R-324 to D10 MKR, turn LEFT to MKR, turn RIGHT, intercept MKR R-146 to OSMOS.
TSL 3A		Climb to 600' , turn LEFT, intercept TSL R-329 to D14 TSL, turn LEFT to TSL, then to assigned route by ATC.
TSL 3B	16	To TSL, TSL R-164 to D10 TSL, turn RIGHT to TSL, then to assigned route by ATC.
TSL 1C	10	Climb on 101° track to 1700' , turn RIGHT to TSL, then to assigned route by ATC.
TSL 3E	28	Climb to 4000' , turn RIGHT to TSL, then to assigned route by ATC.
TSL 3F		Climb to 4000' , turn LEFT to TSL, then to assigned route by ATC.

CHANGES: SIDs completely revised; new format.

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LGTS/SKG

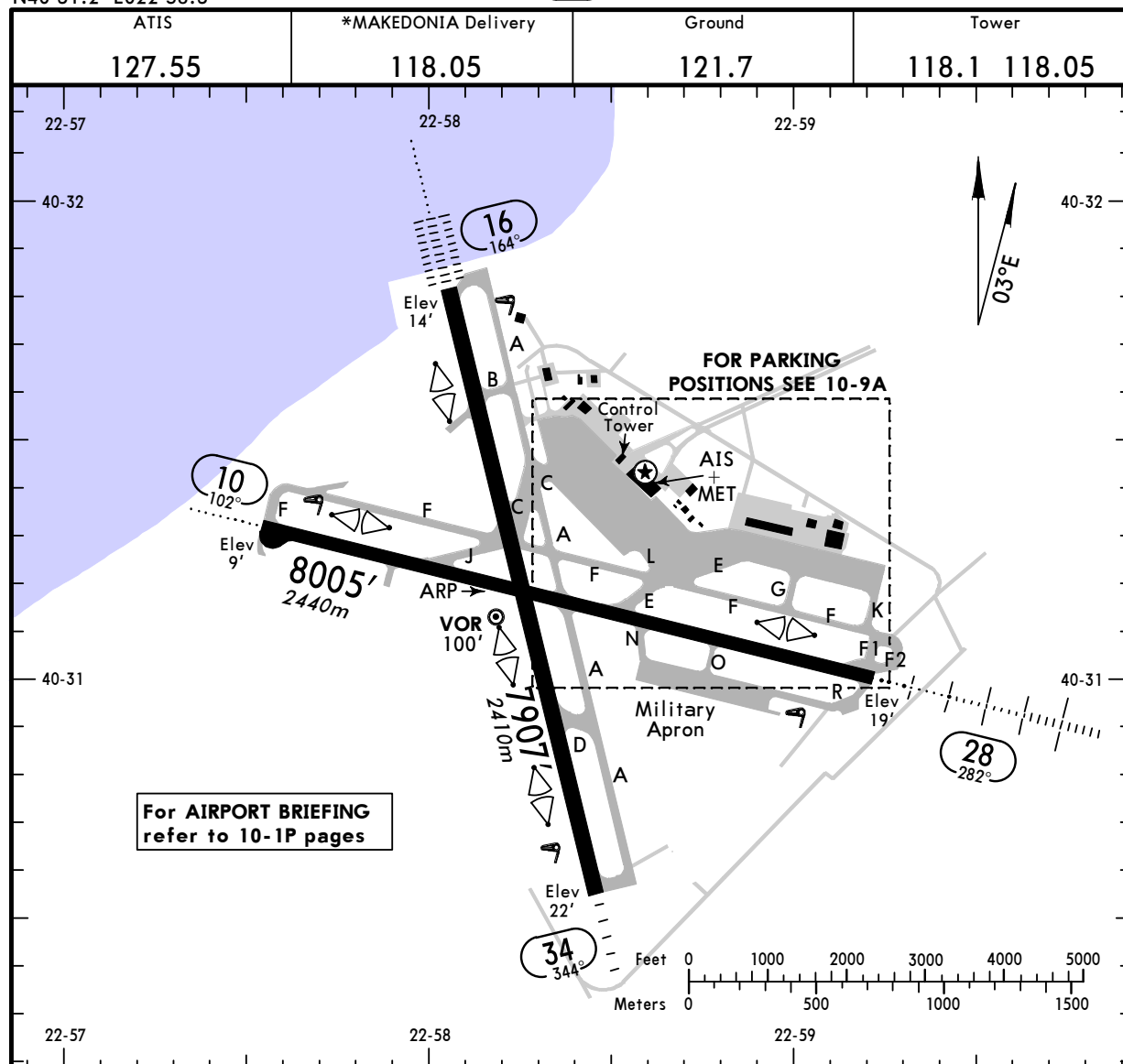
Apt Elev **22'**
N40 31.2 E022 58.3

JEPPesen

7 MAY 10 **(10-9)**

THESSALONIKI, GREECE

MAKEDONIA



ADDITIONAL RUNWAY INFORMATION

RWY		USABLE LENGTHS		TAKE-OFF	WIDTH
		Threshold	Landing Beyond Glide Slope		
10	HIRL ALS PAPI-L (3.00°) RVR			7808' 2380m ①	164' 50m
28	HIRL HIALS PAPI-L (3.00°) RVR				
16	HIRL HIALS-II SFL CL TDZ PAPI-R (3.00°) RVR		6703' 2043m		197' 60m
34	HIRL ALS CL PAPI-L (3.79°) RVR				

① For the protection of arresting device pilots shall start take-off 197'/60m inwards from runway beginning, marked with white line perpendicular to the runway axis.

Standard

TAKE-OFF ①

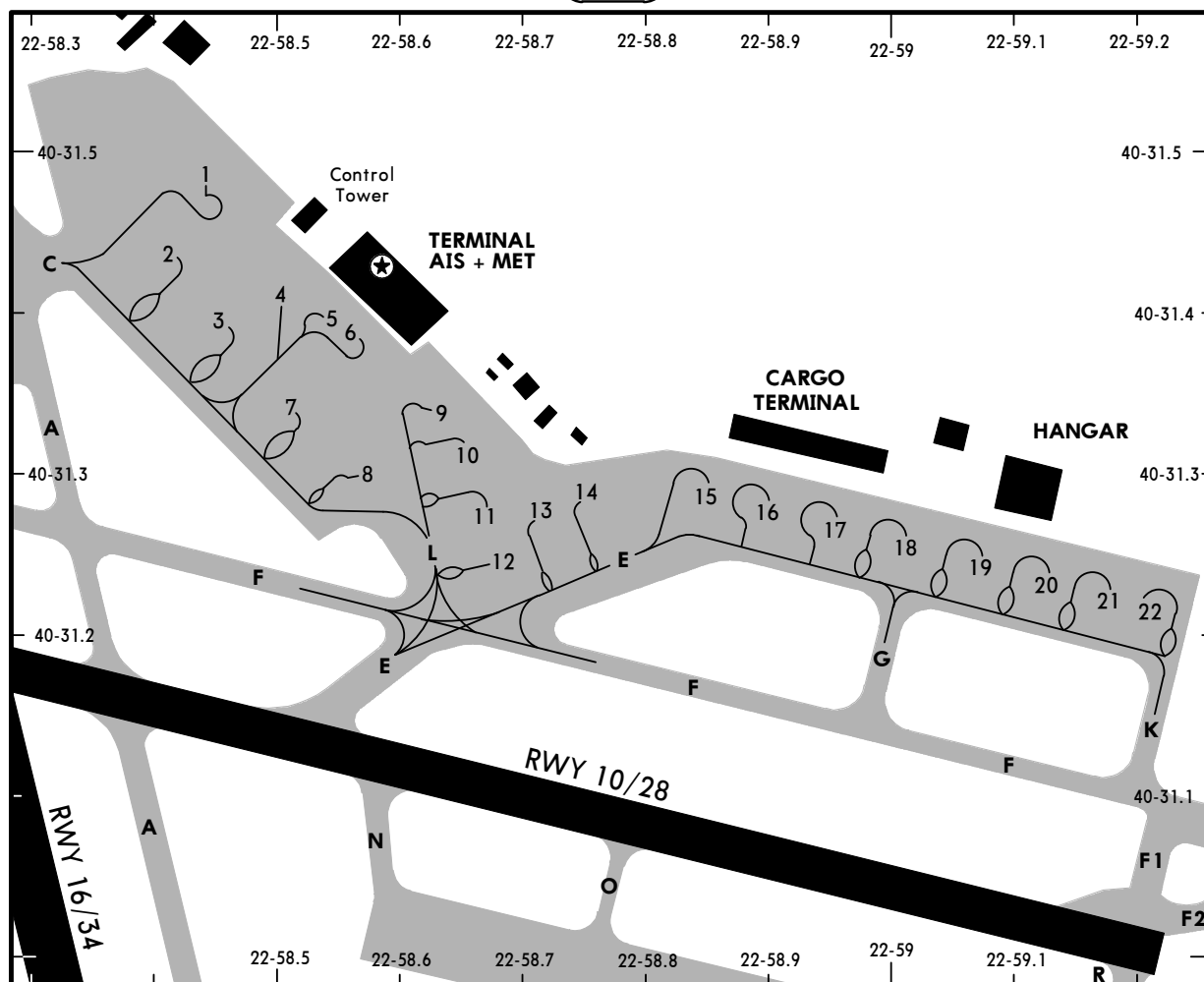
LVP must be in Force				RCLM (DAY only) or RL	NIL (DAY only)
A	RL, CL & mult. RVR req	RL & CL	RCLM (DAY only) or RL		
B	150m	200m	250m		
C					
D	200m	250m	300m		

① Operators applying U.S. Ops Specs: CL required below 300m.

LGTS/SKG

JEPPESEN
 7 MAY 10 (10-9A)

THESSALONIKI, GREECE
MAKEDONIA



INS COORDINATES

STAND No.	COORDINATES	ELEV	STAND No.	COORDINATES	ELEV
1	N40 31.5 E022 58.5	9	15	N40 31.3 E022 58.8	16
2	N40 31.4 E022 58.4	8	16	N40 31.3 E022 58.9	16
3, 4, 5	N40 31.4 E022 58.5	9	17, 18	N40 31.3 E022 59.0	16
6	N40 31.4 E022 58.6	9	19, 20	N40 31.3 E022 59.1	16
7	N40 31.3 E022 58.5	9	21, 22	N40 31.2 E022 59.2	16
8, 9	N40 31.3 E022 58.6	9			
10	N40 31.3 E022 58.7	9			
11, 12	N40 31.3 E022 58.7	10			
13	N40 31.3 E022 58.7	11			
14	N40 31.3 E022 58.8	13			

LGTS/SKG **JEYPESEN**
7 MAY 10 **10-9X****JAA MINIMUMS**
THESSALONIKI, GREECE
MAKEDONIA

STRAIGHT-IN RWY		A	B	C	D
10	ILS ①	209' (200')	209' (200')	209' (200')	214' (205')
		R800m	R800m	R800m	R800m
	ALS out	R1000m	R1000m	R1000m	R1000m
	ILS ②	604' (595')	614' (605')	624' (615')	634' (625')
		R1000m	R1000m	R1000m	R1000m
	ALS out	R1200m	R1200m	R1200m	R1200m
	VOR	760' (751')	760' (751')	760' (751')	760' (751')
		R1500m	R1500m	R2000m	R2000m
16	CAT 2 ILS ①	164' (150')	164' (150')	164' (150')	174' (160')
		RA162' R450m	RA162' R450m	RA162' R450m	RA172' R450m
	ILS ①	214' (200')	214' (200')	214' (200')	214' (200')
		R700m	R700m	R700m	R700m
	ALS out	R1000m	R1000m	R1000m	R1000m
	ILS ②	354' (340')	364' (350')	374' (360')	383' (369')
		R900m	R900m	R900m	R900m
	ALS out	R1200m	R1200m	R1200m	R1200m
	VOR	660' (646')	660' (646')	660' (646')	660' (646')
		R1400m	R1500m	R1600m	R1800m
	ALS out	R1500m	R1500m	R2000m	R2000m
34	VOR	1300' (1278')	1300' (1278')	1300' (1278')	1300' (1278')
		R1500m	R1500m	R2000m	R2000m

① Missed apch climb gradient mim 4.0%.

② Missed apch climb gradient mim 2.5%.

CIRCLE-TO-LAND ③	100 KT	135 KT	180 KT	205 KT
	900' (878') ④	1050' (1028') ④	1400' (1378')	1800' (1778')
	V1500m	V1600m	V2400m	V3600m

③ Not authorized in sector inbound 164° to 282° clockwise.

④ Circling NDB or after VOR 34: MDA(H) 1300' (1278').

TAKE-OFF RWY 10, 28

LVP must be in force			
RCLM (DAY only) or RL		RCLM (DAY only) or RL	NIL (DAY only)
A			
B	250m	400m	500m
C			
D	300m		

TAKE-OFF RWY 16, 34

LVP must be in force				
RL, CL & mult. RVR req	RL & CL	RCLM (DAY only) or RL	RCLM (DAY only) or RL	NIL (DAY only)
A				
B	150m	200m	250m	400m
C				500m
D	200m	250m	300m	

**LGTS/SKG
MAKEDONIA**

JEPPesen
7 MAY 10 (11-1)

**THESSALONIKI, GREECE
ILS DME Rwy 10**

BRIEFING STRIP

ATIS		THESSALONIKI Approach (R)		MAKEDONIA Tower		Ground		
127.55		120.8		118.27		118.1	118.05	121.7
LOC IMAK 109.5		Final Apch Crs 102°		GS D5.0 IMAK 1655' (1646')		ILS DA(H) Refer to Minimums		Apt Elev 22' RWY 9'
MISSED APCH: Climb STRAIGHT AHEAD. At D7.0 IMAK turn RIGHT (MAX 220 KT) to TSL VOR. Intercept R-280 TSL. At D16.0 TSL turn RIGHT and join holding. Climb to 3000'.								
Alt Set: hPa		Rwy Elev: 0 hPa		Trans level: By ATC		Trans alt: 6000'		
ILS DME reads zero at rwy 10 threshold.								

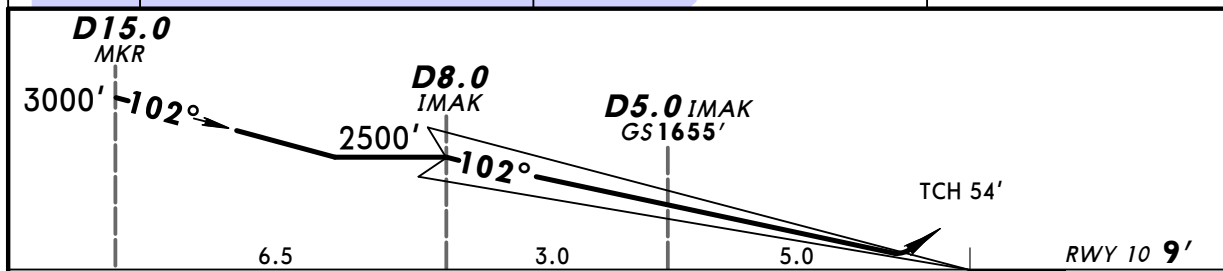
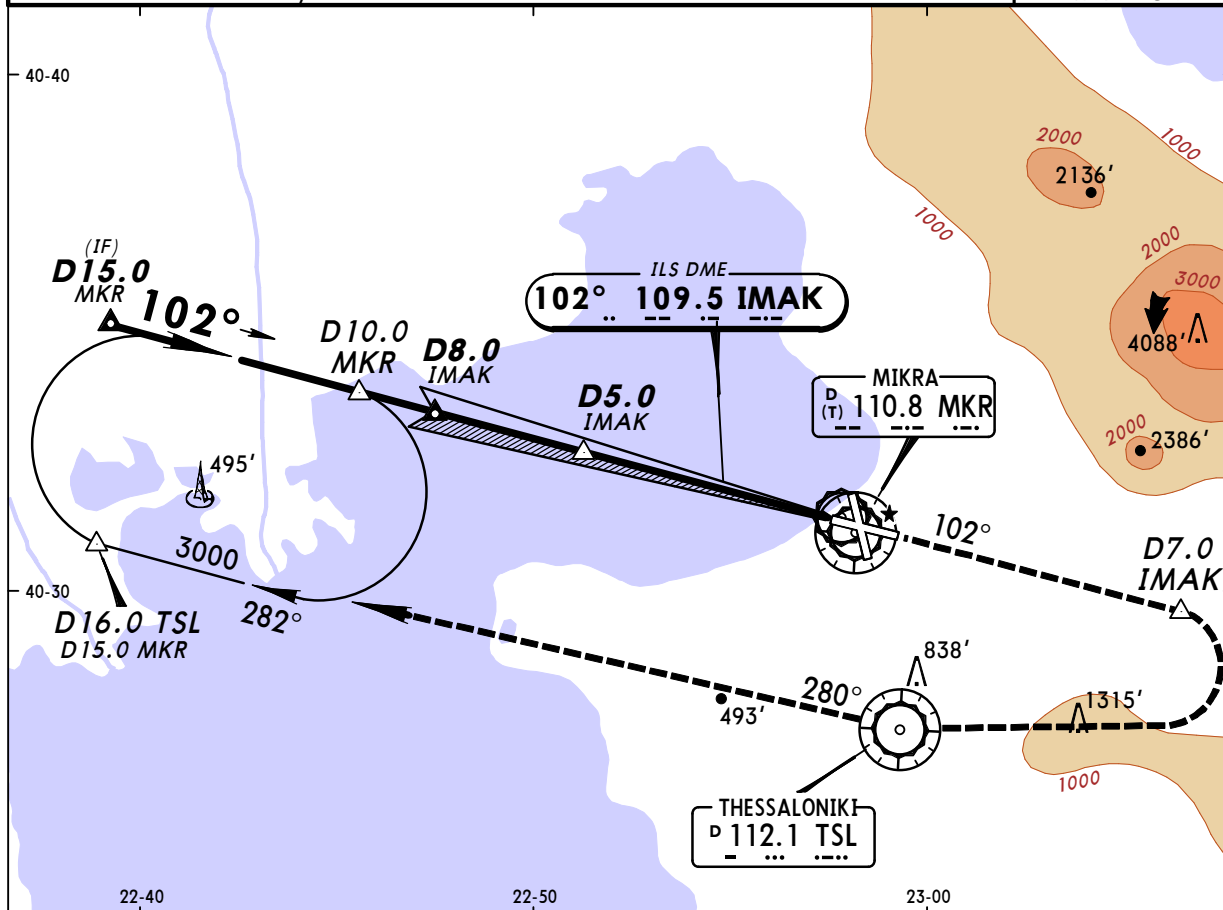
180°

4500'

5500'

360°

MSA
MKR VOR



Gnd speed-Kts	70	90	100	120	140	160	ALS	D7.0 IMAK	220 KT MAX	TSL
ILS GS	3.00°	377	485	539	647	755	862	PAPI	↑	112.1
									RT	

Standard STRAIGHT-IN LANDING RWY 10				LOC (GS out)	CIRCLE-TO-LAND	
Missed apch climb gradient mim 4.0% DA(H) ABC: 209' (200') D: 214' (205')		Missed apch climb gradient mim 2.5% DA(H) A: 604' (595') C: 624' (615') B: 614' (605') D: 634' (625')			Not auth in sector inbound 164° to 282° clockwise	
FULL/Limited	ALS out	FULL/Limited	ALS out		Max Kts	MDA(H) VIS
A					100	900' (878') 1500m
B	RVR 1000m	RVR 1200m	RVR 1500m	NOT APPLICABLE	135	1050' (1028') 1600m
C			CMV 2400m		180	1400' (1378') 2400m
D					205	1800' (1778') 3600m

▮ Climb gradient up to 2000'.

CHANGES: Communications. Minimums.

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PANS OPS 3

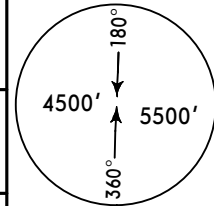
LGTS/SKG
MAKEDONIA

JEPPesen
7 MAY 10 **(11-2)**

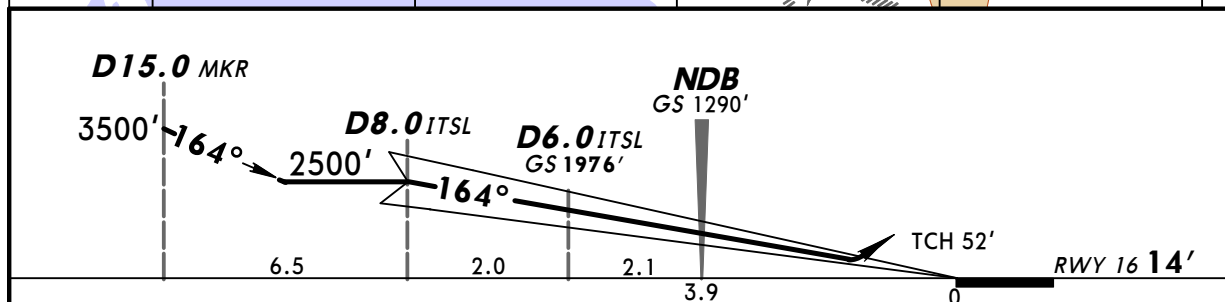
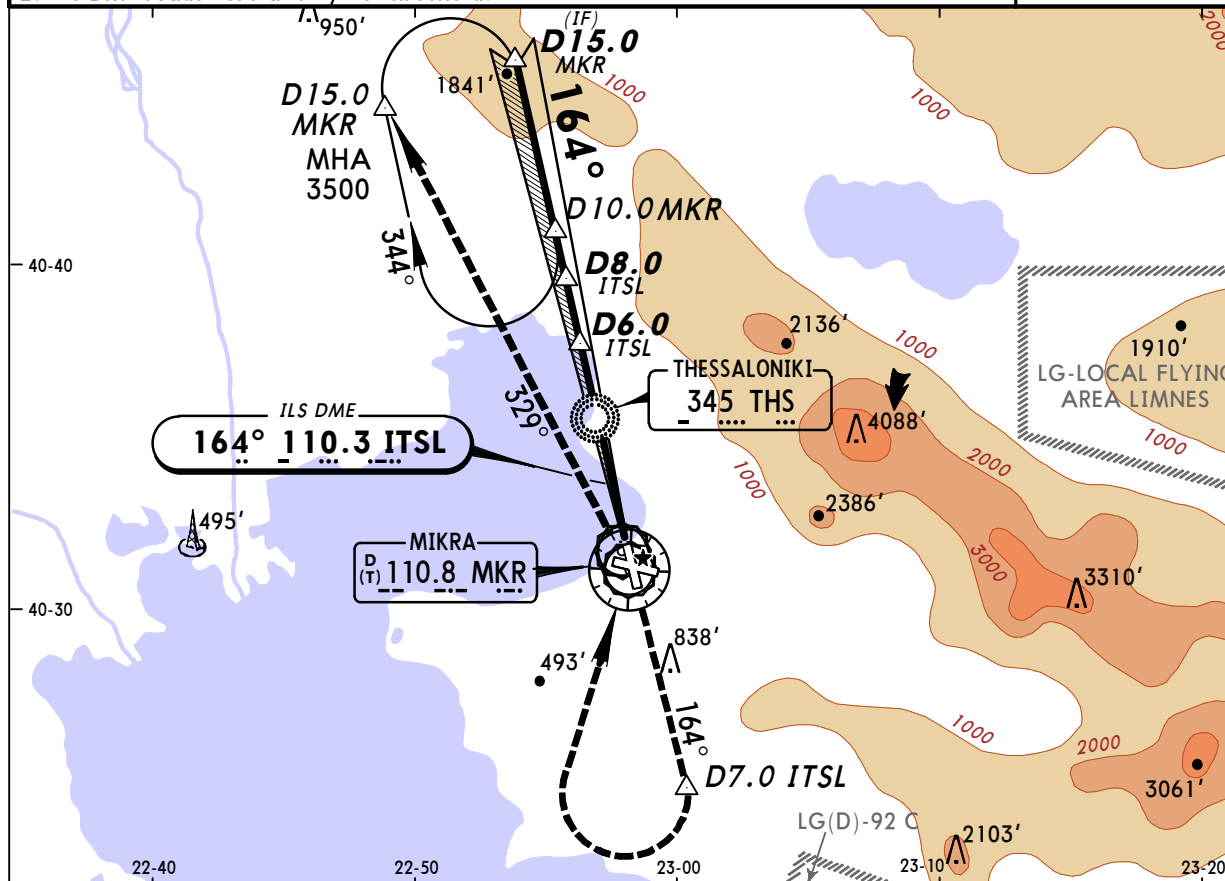
THESSALONIKI, GREECE
ILS Rwy 16

BRIEFING STRIP

ATIS		THESSALONIKI Approach (R)		MAKEDONIA Tower		Ground		
127.55		120.8		118.27		118.1	118.05	121.7
LOC ITSL 110.3		Final Apch Crs 164°		GS D6.0 ITSL 1976' (1962')		ILS DA(H) Refer to Minimums		Apt Elev 22' RWY 14'
MISSED APCH: Climb STRAIGHT AHEAD to D7.0 ITSL, then turn RIGHT to reach VOR at 3500'. Follow R-329 to D15.0 MKR, then turn RIGHT and join holding at 3500'.								
Alt Set: hPa		Rwy Elev: 1 hPa		Trans level: By ATC		Trans alt: 6000'		
1. CAUTION: Raising terrain at missed apch course. 2. ILS DME reads zero at rwy 16 threshold.								



MSA
MKR VOR



Gnd speed-Kts	70	90	100	120	140	160			HIALS-II	<
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Standard		STRAIGHT-IN LANDING RWY 16		LOC (GS out)		CIRCLE-TO-LAND	
Missed apch climb gradient mim 4.0% I		Missed apch climb gradient DA(H) mim 2.5%				Not authorized in sector inbound 164° to 282° clockwise	
DA(H) 214' (200')		A: 354' (340') C: 374' (360') B: 364' (350') D: 383' (369')					
FULL/Limited	ALS out	FULL/Limited	ALS out			Max Kts	MDA(H) VIS
A		RVR 1100m	RVR 1500m			100	900' (878') 1500m
B	RVR 750m	RVR 1200m	RVR 1500m			135	1050' (1028') 1600m
C		RVR 1200m	RVR 1600m			180	1400' (1378') 2400m
D		RVR 1300m	RVR 1700m			205	1800' (1778') 3600m

PANS OPS 3

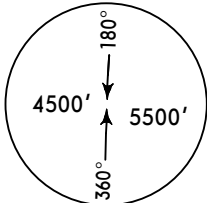
I Climb gradient up to 1500'.

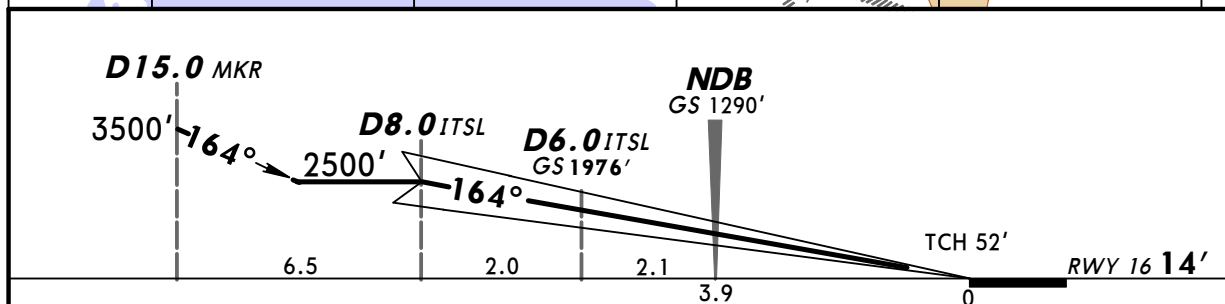
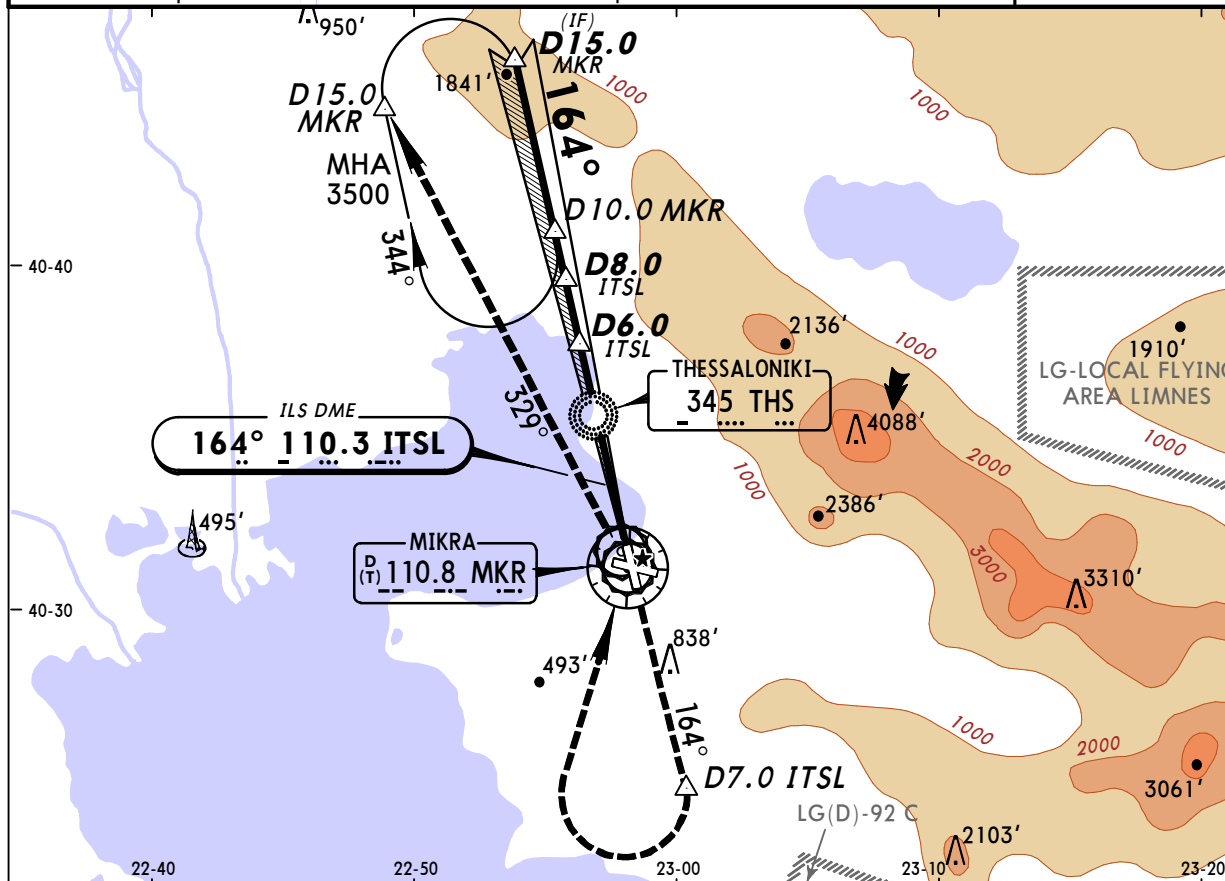
LGTS/SKG
MAKEDONIA

JEPPESSEN
7 MAY 10 **11-2A** MISSED APCH CLIMB
GRAD MIM 4.0%

THESSALONIKI, GREECE
CAT II ILS Rwy 16

BRIEFING STRIP

ATIS	THESSALONIKI Approach (R)		MAKEDONIA Tower		Ground
127.55	120.8	118.27	118.1	118.05	121.7
LOC ITSL 110.3	Final Apch Crs 164°	GS D6.0 ITSL 1976' (1962')	CAT II ILS RA/DA(H) Refer to Minimums	Apt Elev 22' RWY 14'	 MSA MKR VOR
MISSED APCH: Climb STRAIGHT AHEAD to D7.0 ITSL, then turn RIGHT to reach VOR at 3500'. Follow R-329 to D15.0 MKR, then turn RIGHT and join holding at 3500'.					
Alt Set: hPa Rwy Elev: 1 hPa Trans level: By ATC Trans alt: 6000' 1. CAUTION: Raising terrain at missed apch course. 2. ILS DME reads zero at rwy 16 threshold. 3. Special Aircrew & Acft Certification Required.					



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II PAPI	D7.0 ITSL ↑
GS 3.00°	377	485	539	647	755	862		

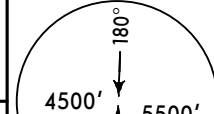
Standard		STRAIGHT-IN LANDING RWY 16	
CAT II ILS		Missed apch climb gradient mim 4.0% 	
ABC	RA 162' DA(H) 164' (150')	D	RA 172' DA(H) 174' (160')
RVR 450m			
 Climb gradient up to 1500'.			

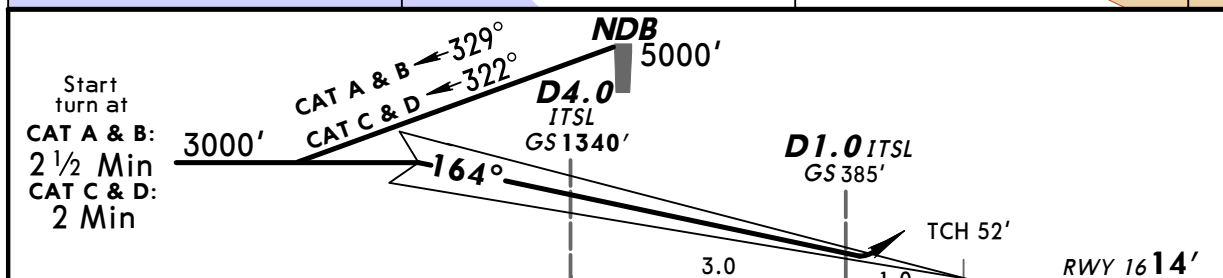
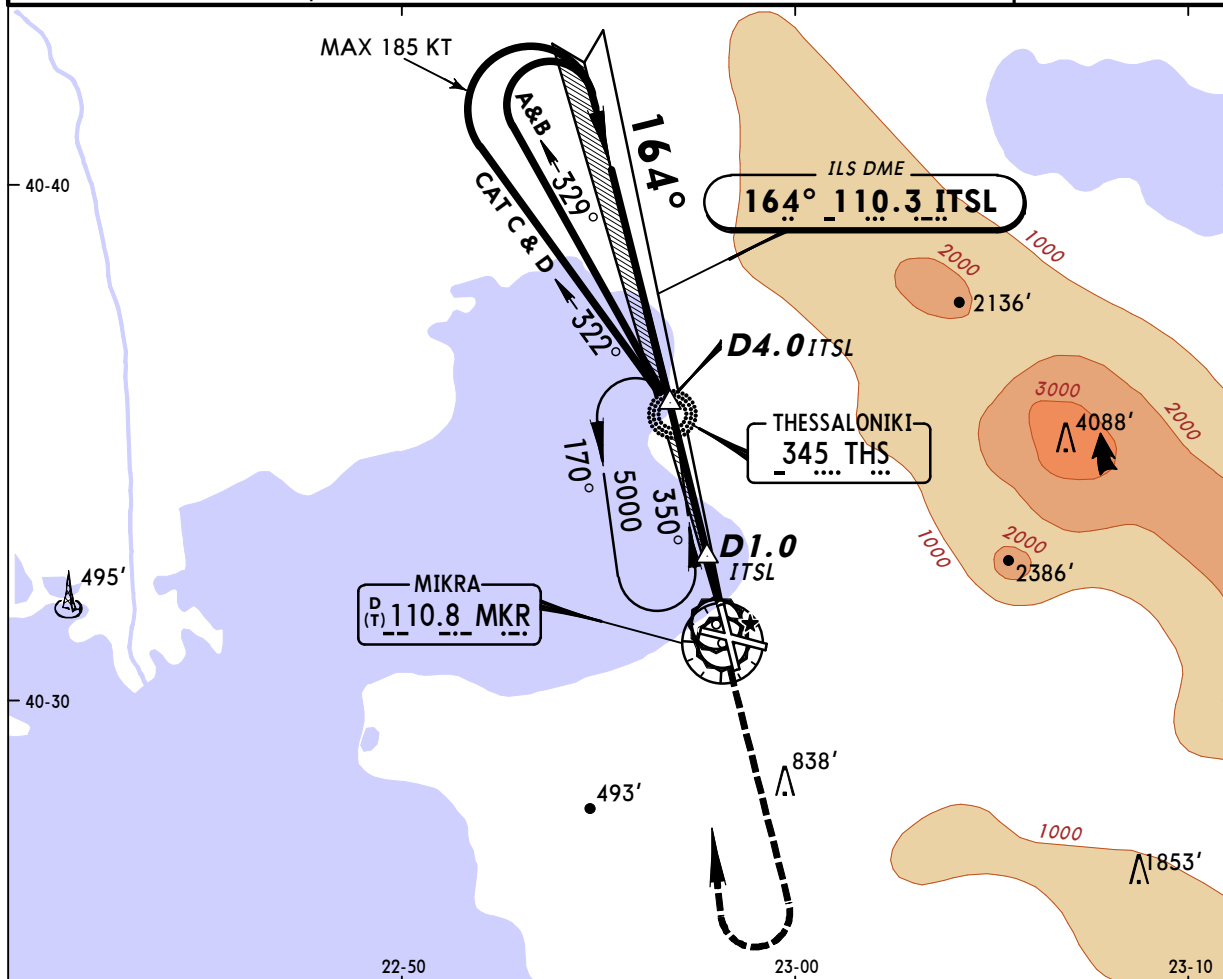
LGTS/SKG
MAKEDONIA

JEPPesen
7 MAY 10 (11-3)

THESSALONIKI, GREECE
NDB ILS DME Rwy 16

BRIEFING STRIP

ATIS	THESSALONIKI Approach (R)		MAKEDONIA Tower		Ground
127.55	120.8	118.27	118.1	118.05	121.7
LOC ITSL 110.3	Final Apch Crs 164°	GS D4.0 ITSL 1340' (1326')	ILS DA(H) Refer to Minimums	Apt Elev 22' RWY 14'	 MSA MKR VOR
MISSED APCH: Climb STRAIGHT AHEAD to 2000', then turn RIGHT and proceed to NDB, climbing to 5000'.					
Alt Set: hPa Rwy Elev: 1 hPa Trans level: By ATC Trans alt: 6000' ILS DME reads zero at rwy 16 threshold.					



Gnd speed-Kts	70	90	100	120	140	160			2000'
ILS GS 3.00°	377	485	539	647	755	862			

Standard STRAIGHT-IN LANDING RWY 16				CIRCLE-TO-LAND	
ILS DA(H) A: 354' (340') C: 374' (360') B: 364' (350') D: 383' (369') FULL/Limited ALS out				Not authorized in sector inbound 164° to 282° clockwise	
				Max Kts	MDA(H) VIS
A	RVR 1100m	RVR 1500m	NOT AUTHORIZED	100	900' (878') 1500m
B	RVR 1200m	RVR 1600m		135	1050' (1028') 1600m
C	RVR 1300m	RVR 1700m		180	1400' (1378') 2400m
D	RVR 1300m	RVR 1700m		205	1800' (1778') 3600m

PANS OPS 3

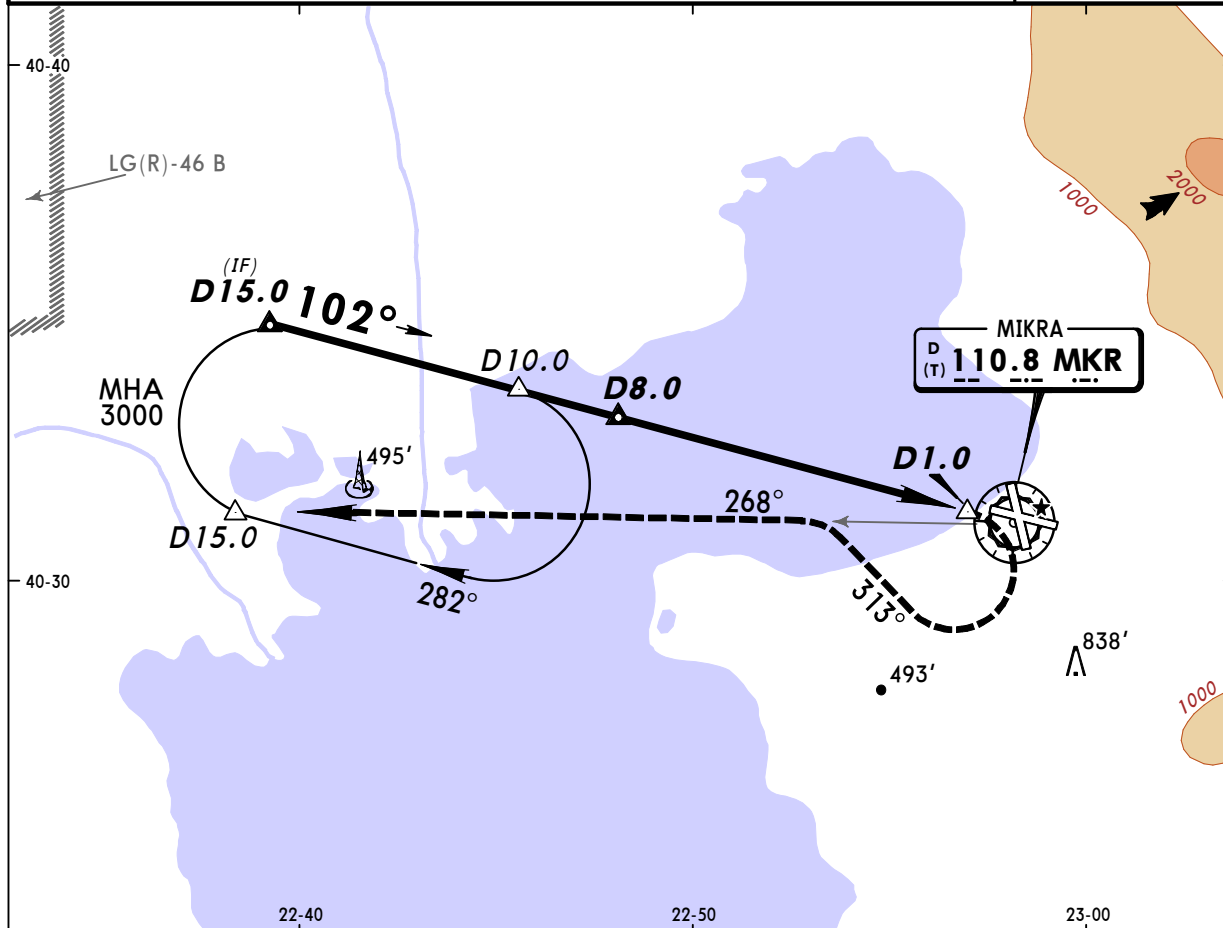
LGTS/SKG
MAKEDONIA

JEPPesen
7 MAY 10 (13-1)

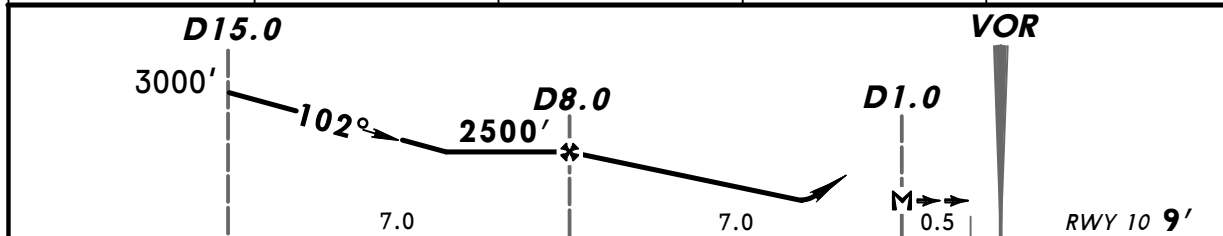
THESSALONIKI, GREECE
VOR DME Rwy 10

BRIEFING STRIP

ATIS	THESSALONIKI Approach (R)		MAKEDONIA Tower		Ground
127.55	120.8	118.27	118.1	118.05	121.7
VOR MKR 110.8	Final Apch Crs 102°	Minimum Alt D8.0 2500' (2491')	DA(H) 760' (751')	Apt Elev 22' RWY 9'	
MISSED APCH: Turn RIGHT (MAX 200 KT) onto 313° to intercept R-268. At D15.0 turn RIGHT and join holding. Climb to 3000'.					
Alt Set: hPa	Rwy Elev: 0 hPa	Trans level: By ATC	Trans alt: 6000'		
MSA MKR VOR					



MKR DME	6.0	5.0	4.0	3.0
ALTITUDE	1850'	1520'	1190'	860'



Gnd speed-Kts	70	90	100	120	140	160	ALS PAPI 313° 200 KT MAX
Descent Angle	3.09°	383	492	547	656	766	
MAP at D1.0							

Standard		STRAIGHT-IN LANDING RWY 10		CIRCLE-TO-LAND	
		DA(H) 760' (751')		Not authorized in sector inbound 164° to 282° clockwise	
		ALS out		Max Kts	
A	RVR 1500m			100	900' (878') 1500m
B				135	1050' (1028') 1600m
C				180	1400' (1378') 2400m
D	CMV 2400m			205	1800' (1778') 3600m

PANS OPS 3

LGTS/SKG
MAKEDONIA

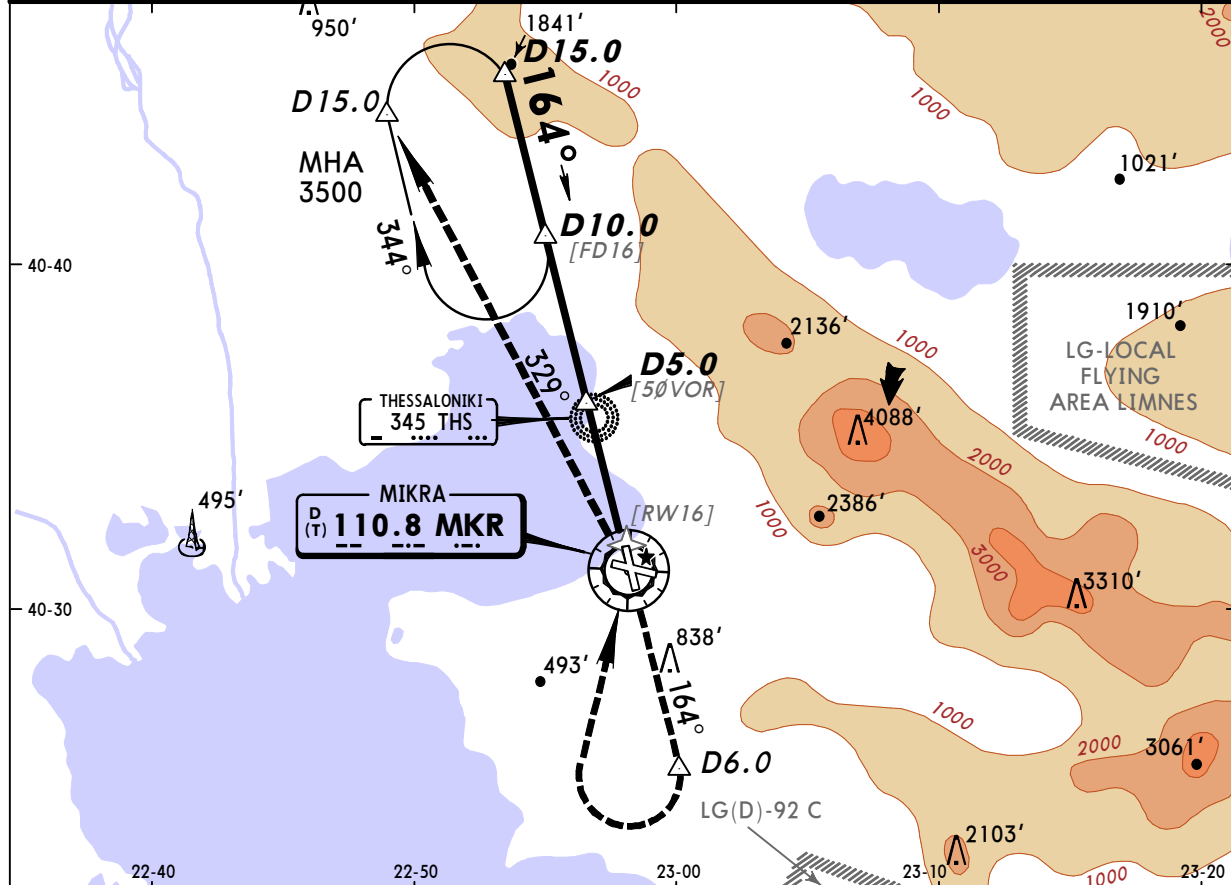
JEPPesen
7 MAY 10 (13-2)

THESSALONIKI, GREECE
VOR DME Rwy 16

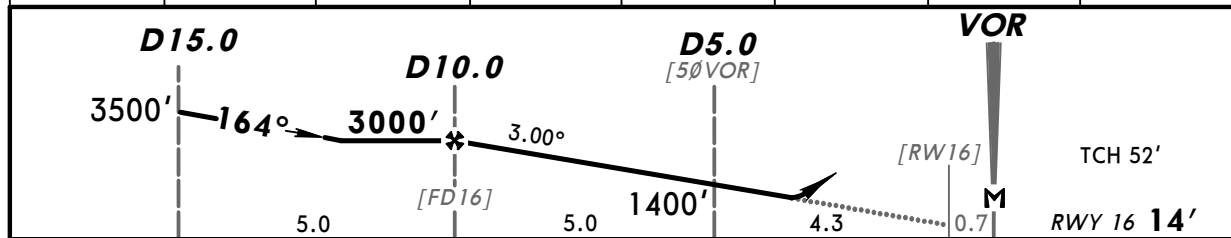
BRIEFING STRIP

ATIS		THESSALONIKI Approach (R)		MAKEDONIA Tower		Ground		
127.55		120.8		118.27		118.1	118.05	121.7
VOR MKR 110.8		Final Apch Crs 164°		Minimum Alt D10.0 3000' (2986')		DA(H) 660' (646')		Apt Elev 22' RWY 14'
MISSED APCH: Climb on R-164 to D6.0, then turn RIGHT to reach VOR at 3500'. Turn LEFT. Follow R-329 to D15.0, then turn RIGHT and join holding at 3500'.								
Alt Set: hPa		Rwy Elev: 1 hPa		Trans level: By ATC		Trans alt: 6000'		
CAUTION: Raising terrain at missed apch course.								

MSA
MKR VOR



MKR DME	9.0	8.0	7.0	6.0	5.0	4.0	3.0
ALTITUDE	2690'	2370'	2060'	1740'	1430'	1110'	800'



Gnd speed-Kts	70	90	100	120	140	160		D6.0 on 110.8 R-164
Descent Angle	3.00°	372	478	532	638	744		
MAP at VOR								

Standard			CIRCLE-TO-LAND		
STRAIGHT-IN LANDING RWY 16			Not authorized in sector inbound 164° to 282° clockwise.		
DA(H) 660' (646')		ALS out	Max Kts	MDA(H)	VIS
A	RVR 1500m		100	900' (878')	1500m
B			135	1050' (1028')	1600m
C			180	1400' (1378')	2400m
D	CMV 2400m		205	1800' (1778')	3600m

PANS OPS 3

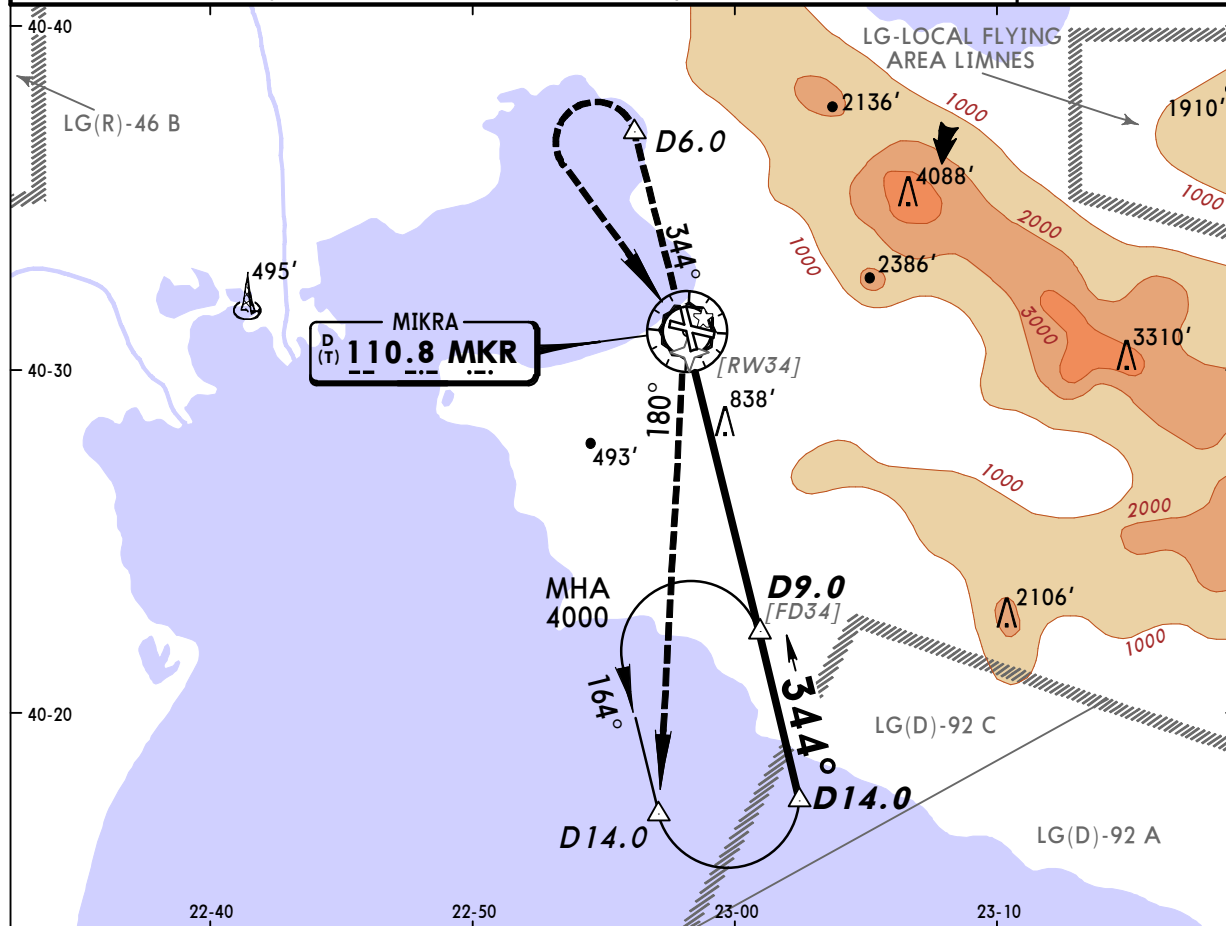
LGTS/SKG
MAKEDONIA

JEPPesen
7 MAY 10 **(13-3)**

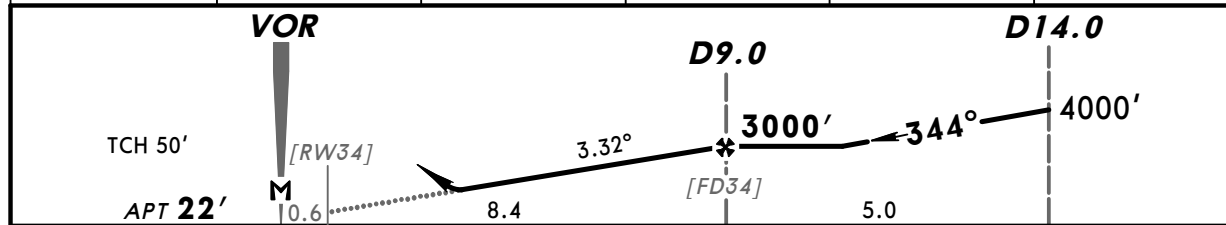
THESSALONIKI, GREECE
VOR DME Rwy 34

BRIEFING STRIP

ATIS		THESSALONIKI Approach (R)		MAKEDONIA Tower		Ground		
127.55		120.8		118.27		118.1	118.05	121.7
VOR MKR 110.8		Final Apch Crs 344°		Minimum Alt D9.0 3000'(2978')		DA(H) 1300'(1278')		Apt Elev 22'
MISSED APCH: Climb on R-344 to D6.0, then turn LEFT to VOR. Turn RIGHT. Follow R-180 to D14.0, then turn LEFT and join holding at 4000'.								
Alt Set: hPa		Apt Elev: 1 hPa		Trans level: By ATC		Trans alt: 6000'		MSA MKR VOR



MKR DME	4.0	5.0	6.0	7.0	8.0
ALTITUDE	1250'	1600'	1950'	2300'	2650'



Gnd speed-Kts	70	90	100	120	140	160	ALS PAPI 	D6.0 ↑ 	MKR on 110.8 R-344
Descent Angle	3.32°	411	529	587	705	822			
MAP at VOR									

Standard		STRAIGHT-IN LANDING Rwy 34		CIRCLE-TO-LAND	
		DA(H) 1300' (1278')		Not authorized in sector inbound 164° to 282° clockwise	
A	CMV 5000m	Max Kts.	100	MDA(H)	VIS
B			135	1300'(1278')	5000m
C			180	1400'(1378')	5000m
D			205	1800'(1778')	5000m

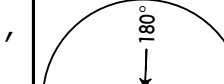
PANS OPS 3

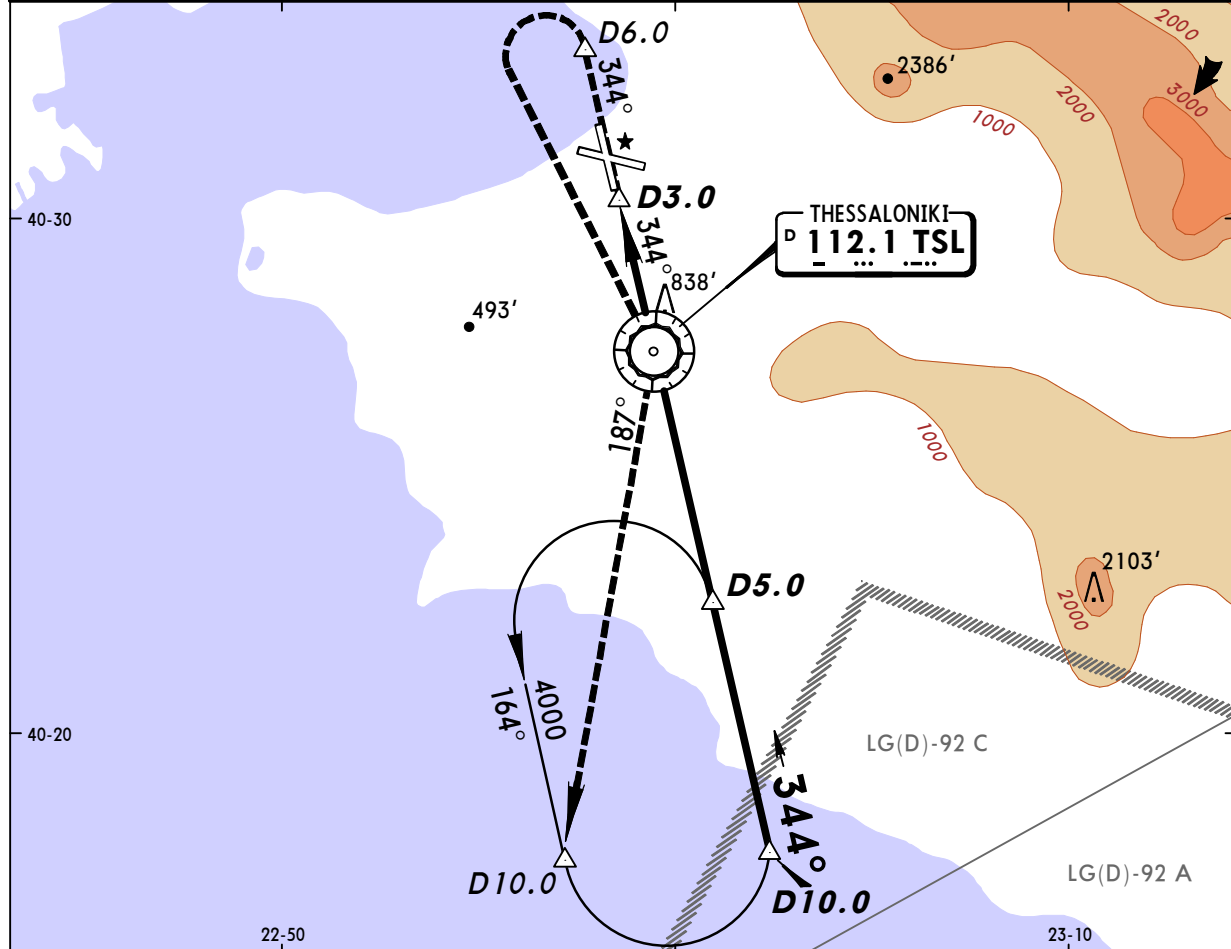
LGTS/SKG
MAKEDONIA

JEPPESEN
7 MAY 10 (13-4)

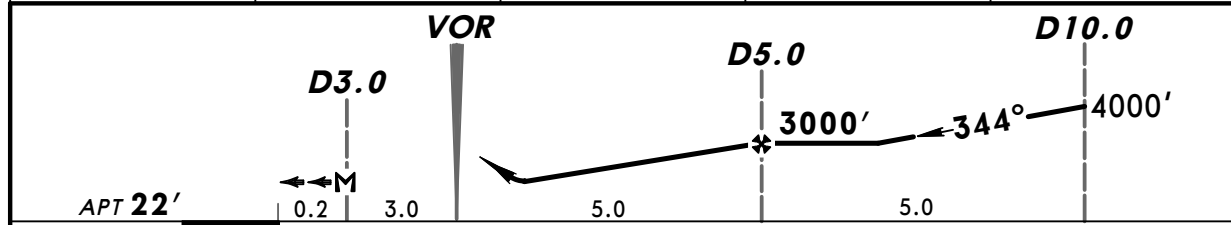
THESSALONIKI, GREECE
via TSL VOR VOR DME Rwy 34

BRIEFING STRIP

ATIS		THESSALONIKI Approach (R)		MAKEDONIA Tower		Ground			
127.55		120.8		118.27		118.1	118.05	121.7	
VOR TSL 112.1		Final Apch Crs 344°		Minimum Alt D5.0 3000' (2978')		DA(H) 1300' (1278')		Apt Elev 22'	
MISSED APCH: Climb on R-344 to D6.0, then turn LEFT to VOR. Turn RIGHT. Follow R-187 to D10.0, then turn LEFT and join holding at 4000'.									
Alt Set: hPa		Apt Elev: 1 hPa		Trans level: By ATC		Trans alt: 6000'		MSA TSL VOR	



TSL DME	1.0	2.0	3.0	4.0
ALTITUDE	1600'	1950'	2300'	2650'



Gnd speed-Kts	70	90	100	120	140	160	ALS PAPI D6.0 on TSL 112.1 R-344	
Descent Angle 3.32°	411	529	587	705	822	940		
MAP at D3.0 after VOR								

Standard STRAIGHT-IN LANDING RWY 34			CIRCLE-TO-LAND		
DA(H) 1300' (1278')			Not authorized in sector inbound 164° to 282° clockwise		
A B C D	CMV 5000m		Max Kts	MDA(H)	VIS
			100	1300' (1278')	5000m
			135	1400' (1378')	5000m
			180	1800' (1778')	5000m

PANS OPS 3

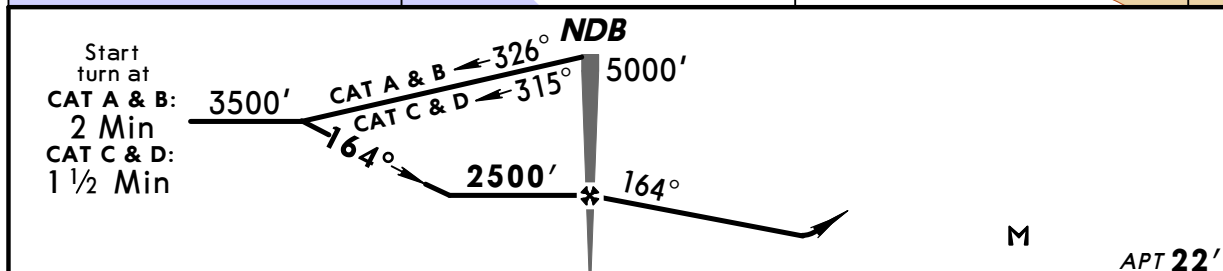
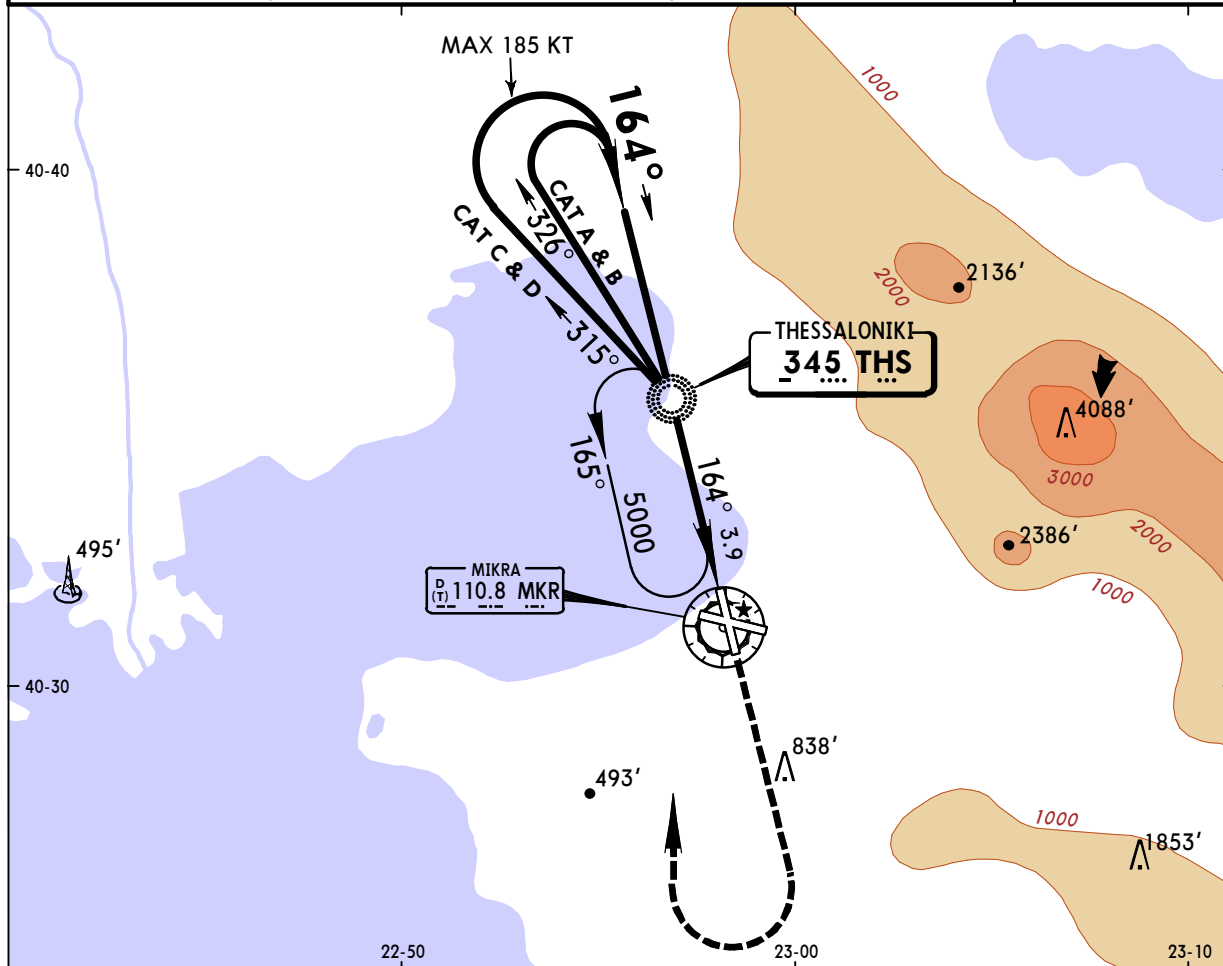
LGTS/SKG
MAKEDONIA

JEPPesen
7 MAY 10 **(16-1)**

THESSALONIKI, GREECE
CIRCLING NDB

BRIEFING STRIP

ATIS 127.55	THESSALONIKI Approach (R) 120.8 118.27		MAKEDONIA Tower 118.1 118.05		Ground 121.7
NDB THS 345	Final Apch Crs 164°	Minimum Alt NDB 2500' (2478')	MDA(H) Refer to Minimums	Apt Elev 22'	
MISSED APCH: Climb STRAIGHT AHEAD to 3000', then turn RIGHT to NDB climbing to 5000'.					
Alt Set: hPa	Apt Elev: 1 hPa	Trans level: By ATC	Trans alt: 6000'	MSA THS NDB	



Gnd speed-Kts	70	90	100	120	140	160	Lighting- Refer to Airport Chart	3000'	5000'	THS 345
NDB to MAP	3.9	3:21	2:36	2:20	1:57	1:40		↑	RT	

Standard		STRAIGHT-IN LANDING		CIRCLE-TO-LAND	
				Not authorized in sector inbound 164° to 282° clockwise	
A	NOT AUTHORIZED			Max Kts	MDA(H) VIS
B				100	1300' (1278') 1500m
C				135	1300' (1278') 1600m
D				180	1400' (1378') 2400m
				205	1800' (1778') 3600m

PANS OPS 3

JEPPESEN

9 DEC 05

19-1

THESSALONIKI

MAKEDONIA

GREECE

(APP)

MAKEDONIA APPROACH **120.80** (gr, en)

THESSALONIKI RADAR **120.80**

THESSALONIKI DIRECTOR **118.27**

LGTS

Elev **22'**/7m

N40 31.2

E022 58.3

7 NM S Centre of City

(TWR)

MAKEDONIA TOWER **118.10** (gr, en)

ATIS **127.55**

*ILS/DME freq paired.

RWY

RWY

ILS

10*

109.5

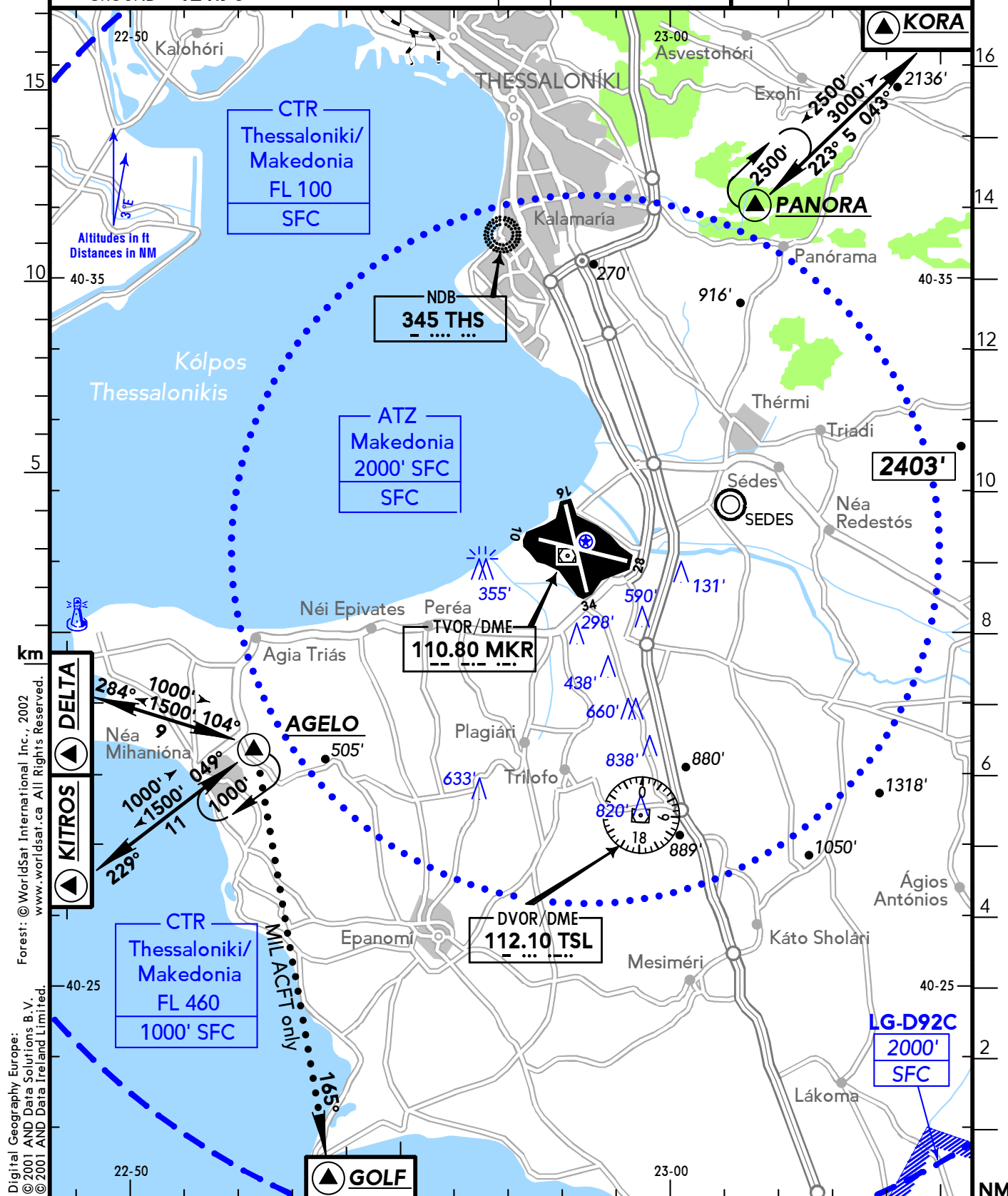
0 IMA

16

110.

30 ITS

GROUND **121.70**



CHANGES: New layout - COM - OBST.

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BOTTLANG AIRFIELD MANUAL ®

THESSALONIKI

MAKEDONIA

GREECE

19-2 9 DEC 05

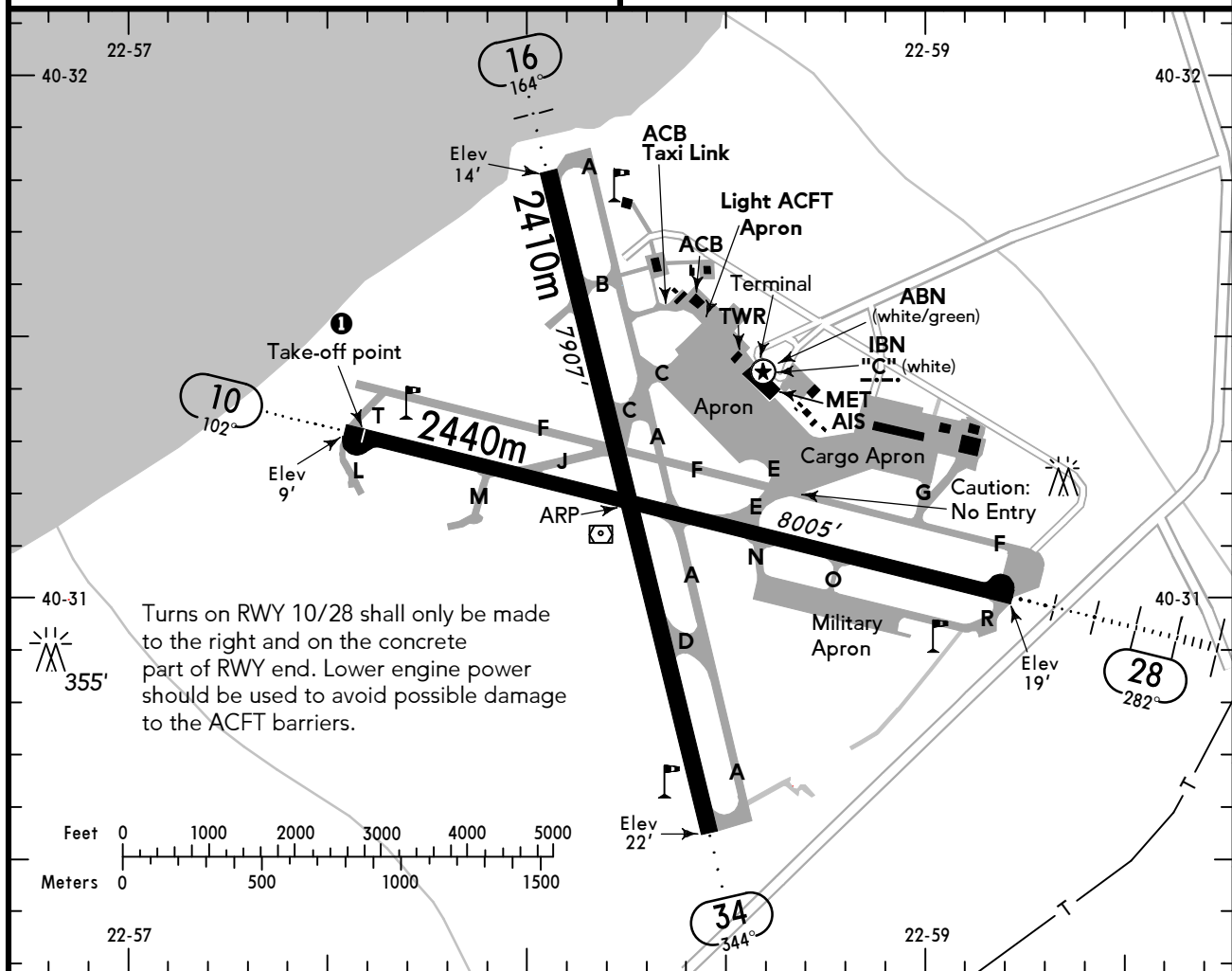
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ATIS **127.55**
GROUND **121.70**

APRON DELIVERY **121.85**
118.05

(FIS)

MAKEDONIA INFORMATION **130.92**



TAXI

ABN - IBN - ALS - PAPI 10/28, 16 (3°), 34 (3.79°) - THRL - RL - RCLL 16/34 - TWYL - APRON - OBSTL.

RWY No	Dimension (m) - Surface	TORA (m)	LDA (m)	Strength	Lights
10 28	2440 x 50 Asphalt	2380 2440	2440 2440	PCN 40/F/B/X/U	
16 34	2410 x 60 Asphalt	2410	2410 ②	PCN 40/F/B/X/U	

① For protection of arresting devices: Take-off 60m inwards from RWY beginning.

② Due to significant OBST in approach area RWY 34 touchdown point should be selected making due allowance for ACFT performance, height of OBST and required LDA.

Notes: See also THESSALONIKI AREA-Chart. NORDO ACFT PPR. RWY 10 & 16 RH circuit.

To avoid conflict with the traffic of the near-by MIL AD Sedes all ACFT should enter traffic circuits at an altitude of 1500' and join the down wind leg of RWY in use APRX at its mid point and at an angle of 45°, unless otherwise instructed by ATC.

Bird concentration in the vicinity of the airport, caution advised.

Avoid overflying the town of Thessaloniki.

Use minimum power when taxiing to, from & on apron.

Pilots of departing ACFT shall request start-up clearance when ready to start engines immediately and after ACFT doors are closed. When expected delay is less than 15 MIN at the holding point ACFT shall be cleared to start engines immediately.