INSTRUMENT
APPROACH
CHART - ICAO

AERODROME ELEV 22 ft
HEIGHTS RELATED TO
THR RWY 34-ELEV 22 ft

ATIS 127.555 APP 120.800
TWR 118.105

THESSALONIKI/ MAKEDONIA

RNP Z RWY 34

ICAO DOC 8168 6h ed. Amend 7

PBN REQUIREMENTS
NAV. SPEC. :RNP APCH

KOLCHIKO

NIMFOPETRA
3000ft
2500ft

4500   5500

MSA 25 NM
from ARP

Contour
Legend
(ft)

11000
9000
7000
5000
3000
2000
1000

LIMNES
GND-3000ft

LGR 46
AREA "1"
4000
GND

LGAX

ALEXANDRIA MIL ATZ
GND to 2000ft

ALEXANDRIA
NDB
GDA-394

LGR 46
AREA "2"
2000
GND

2421

4088

3924

2388

1910

3310

2982

2454

Warning

1. Non standard descent gradient (3.8°).

2. LNAV & LNAV/VNAV VSS penetrated by
several obstacles and terrain.

3. PAPI OPS surface penetrated by obstacle
located around 1.9NM from THR34 (Altitude
609Ft) slightly right from RWY ECL referring to
approach direction.

10 NM
CTR

ATZ

NO CIRCLING
SECTOR

TS609
1300'

(346.4°)
341°
3.0°

ARP

SEDES

MAPt (RW34)
(LNAV ONLY)

Λ609
327

847 889
693 745 695
882

1315

1601

1050

1755
1873

WD 4.4NM

(230.5°T)
225°
(16.5)

225°
IAS MAX 200 kt
MHA 3000
MAX 4000

045°

FICLO

**FAF
TS626
3500'**

341°
(8.4)

(346.4°T)

358

341°
(5.0)

(346.4°T)

NEA KALLIKRATEIA
LGD 92
AREA "3"
2000
GND/SL

2103

116°

WD 4.5NM

NEA SYLLATA

**IAF
ANAFNU**

MHA
5000

(256.4°T)
251°
(5.0)

296°

IAS MAX 200 kt

REMARK

1. For uncompensated
BARO-VNAV systems
LNAV/VNAV
not authorized below -20 °C.

**IAF
APZOC**

196°

(076.4°T)
071°
(5.0)

016°

MHA
5000

WD 4.5NM

**IF
CEFEB
4000**

341°
(5.0)

(346.4°T)

4000

341°

(346.4°T)

**IAF
YAMPO
5000'**

LGD 92
AREA "1"
3000
GND/SL

LGD 92
AREA "2"
6000
GND/MSL

LGD 64
FL250
GND/MSL

LGD 74
5000
GND

LARISSA MTMA
(north sector)

9000ft

MAKEDONIA TMA

LARISSA MTMA
(south sector)

LG-TSA 03

SPOT ELEVATIONS ARE IN FEET.
LEVELS INDICATE ALTITUDE AND ARE IN FEET,
EXCEPT FOR LEVELS IN PARENTHESES WHICH
ARE HEIGHTS REFERENCED TO THR RWY34 ELEVATION.
BEARINGS AND TRACKS ARE MAGNETIC, EXCEPT FOR
TRACKS IN PARENTHESES WHICH ARE TRUE.
DISTANCES BETWEEN POINTS ARE GEODESIC.

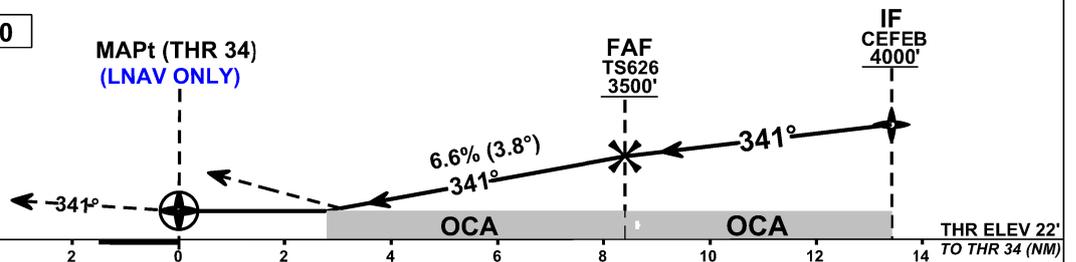**VAR 5°00' E/2022 - Annual Change 5'44"E**

SCALE 1:500.000

0   5 NM
         Km
  5

MISSED APPROACH:

Proceed via TS609 - FICLO climbing to 3000FT to join FICLO Holding Pattern.

TRANSITION ALT 6000

MAPt (THR 34)
(LNAV ONLY)

FAF
TS626
3500'

IF
CEFEB
4000'

6.6% (3.8°)
341°

341°

341°

OCA   OCA

THR ELEV 22'
TO THR 34 (NM)

2   0   2   4   6   8   10   12   14

OCA (H)	A	B	C	D
LNAV/VNAV	884 (862)	896 (874)	904 (882)	915 (893)
LNAV	1120 (1098)			
CIRCLING *		1300 (1278)	1400 (1378)	1800 (1778)

*NO CIRCLING

342°

ARP

100°

DIST THR RWY34	NM	8	7	6	5	4	3
ALTITUDE	FT	3300	2897	2493	2090	1686	1283
GS	KT	80	100	120	140	160	180
TS626-RW34 (8.4NM)	MIN:SEC	6:18	5:3	4:12	3:36	3:9	2:48
RATE OF DESCENT (403.5FT/NM)	FT/MIN	537	673	807	942	1076	1211

Initial from YAMPO

Path Terminator	Waypoint Name	LATITUDE	LONGITUDE	FLY OVER	BEARING °M (°T)	TURN DIR	ALTITUDE (FT)	IAS (KT)	REMARKS
IF	**YAMPO**	40:12:39.6664 N	023:04:07.7144 E	-	-	-	+5000	-	IAF
TF	**CEFEB**	40:17:31.4529 N	023:02:35.5091 E	-	341 (346.4)	-	+4000	-210	IF
TF	**TS626**	40:22:23.2184 N	023:01:03.0760 E	-	341 (346.4)	-	+3500	-	FAF
TF	**RW34**	40:30:33.0000 N	022:58:27.5000 E	Y	341 (346.4)	-	-	-	MAPt (LNAV only)
TF	**TS609**	40:33:28.0366 N	022:57:31.7426 E	Y	341 (346.4)	-	+1300	-200	
CF	**FICLO**	40:20:54.9635 N	022:42:02.6897 E	Y	225 (230.5)	-	+3000	-200	

Initial from APZOC

Path Terminator	Waypoint Name	LATITUDE	LONGITUDE	FLY OVER	BEARING °M (°T)	TURN DIR	ALTITUDE (FT)	IAS (KT)	REMARKS
IF	**APZOC**	40:16:20.5881 N	022:56:14.5882 E	-	-	-	+5000	-	IAF
TF	**CEFEB**	40:17:31.4529 N	023:02:35.5091 E	-	071 (076.4)	-	+4000	-210	IF
TF	**TS626**	40:22:23.2184 N	023:01:03.0760 E	-	341 (346.4)	-	+3500	-	FAF
TF	**RW34**	40:30:33.0000 N	022:58:27.5000 E	Y	341 (346.4)	-	-	-	MAPt (LNAV only)
TF	**TS609**	40:33:28.0366 N	022:57:31.7426 E	Y	341 (346.4)	-	+1300	-200	
CF	**FICLO**	40:20:54.9635 N	022:42:02.6897 E	Y	225 (230.5)	-	+3000	-200	

Initial from NAFNU

Path Terminator	Waypoint Name	LATITUDE	LONGITUDE	FLY OVER	BEARING °M (°T)	TURN DIR	ALTITUDE (FT)	IAS (KT)	REMARKS
IF	**NAFNU**	40:18:41.9733 N	023:08:56.6492 E	-	-	-	+5000	-	IAF
TF	**CEFEB**	40:17:31.4529 N	023:02:35.5091 E	-	251 (256.4)	-	+4000	-210	IF
TF	**TS626**	40:22:23.2184 N	023:01:03.0760 E	-	341 (346.4)	-	+3500	-	FAF
TF	**RW34**	40:30:33.0000 N	022:58:27.5000 E	Y	341 (346.4)	-	-	-	MAPt (LNAV only)
TF	**TS609**	40:33:28.0366 N	022:57:31.7426 E	Y	341 (346.4)	-	+1300	-200	
CF	**FICLO**	40:20:54.9635 N	022:42:02.6897 E	Y	225 (230.5)	-	+3000	-200	

HOLDING RNAV1

Path Terminator	Waypoint Name	Inbound Track	Leg distance	Turn direction	MHA	Speed limit	Navigation specification	Waypoint distance (only for RNAV systems without RNAV functionality)
HM	**APZOC**	016°	3	L	5000	-200	RNAV1	4.5
HM	**NAFNU**	296°	3	R	5000	-200	RNAV1	4.5
HM	**FICLO**	045°	3	L	3000	-200	RNAV1	4.4

WAYPOINTS

Waypoint Name	LATITUDE	LONGITUDE
YAMPO	40:12:39.6664 N	023:04:07.7144 E
APZOC	40:16:20.5881 N	022:56:14.5882 E
NAFNU	40:18:41.9733 N	023:08:56.6492 E
CEFEB	40:17:31.4529 N	023:02:35.5091 E
TS609	40:33:28.0366 N	022:57:31.7426 E
FICLO	40:20:54.9635 N	022:42:02.6897 E
TS626	40:22:23.2184 N	023:01:03.0760 E
MKR	40:31:07.4100 N	022:58:11.2800 E
RW34	40:30:33.0000 N	022:58:27.5000 E