

DTTA/TUN
 CARTHAGE

1 JUL 05
 10-3

JEPPESSEN

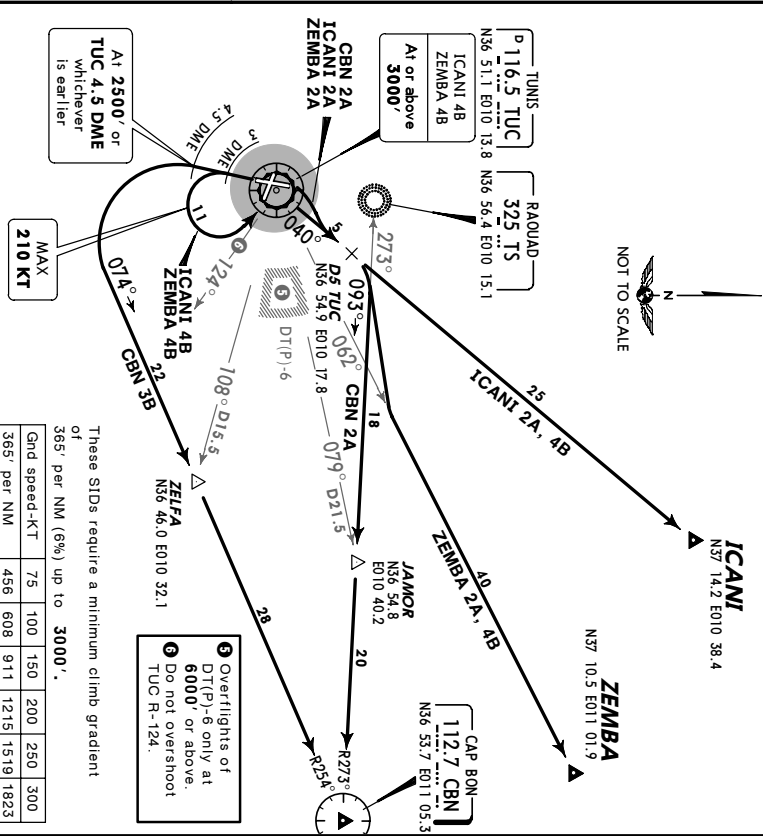
TUNIS, TUNISIA
 SID

Apr Elev
22'

Trans level: By ATC
 SIDs are also noise abatement procedures.

CBN 2A, CBN 3B
 ICANI 2A [ICAN2A], ICANI 4B [ICAN4B]
 ZEMBA 2A, ZEMBA 4B
 RWYS 01, 19 DEPARTURES
 TO NORTHEAST & EAST
SPEEDS MAX 250 KT BELOW FL100

MSA
 TUC VOR
 within 30 NM
 ① 3000' within 20 NM
 ② 3000' within 10 NM
 ③ 3000' within 25 NM



No turn permitted below 500'.

SID	RWY	ROUTING
-----	-----	---------

CBN 2A	01	Turn RIGHT as soon as possible, intercept TUC R-040 to D5 TUC, turn RIGHT, intercept 093° bearing from TS (CBN R-273 inbound) to CBN.
CBN 3B	19	Climb straight ahead, at 2500' or TUC 4.5 DME, whichever is earlier, turn LEFT, intercept CBN R-254 inbound to CBN.
ICANI 2A	01	Turn RIGHT as soon as possible, intercept TUC R-040 to ICANI.
ICANI 4B	19	Straight ahead, at TUC 3 DME turn LEFT to TUC, TUC R-040 to ICANI.
ZEMBA 2A	01	Turn RIGHT as soon as possible, intercept TUC R-040 to D5 TUC, turn RIGHT, intercept TUC R-062 to ZEMBA.
ZEMBA 4B	19	Straight ahead, at TUC 3 DME turn LEFT to TUC, TUC R-040 to D5 TUC, turn RIGHT, intercept TUC R-062 to ZEMBA.

DTTA/TUN
 CARTHAGE

1 JUL 05
 10-3A

JEPPESSEN

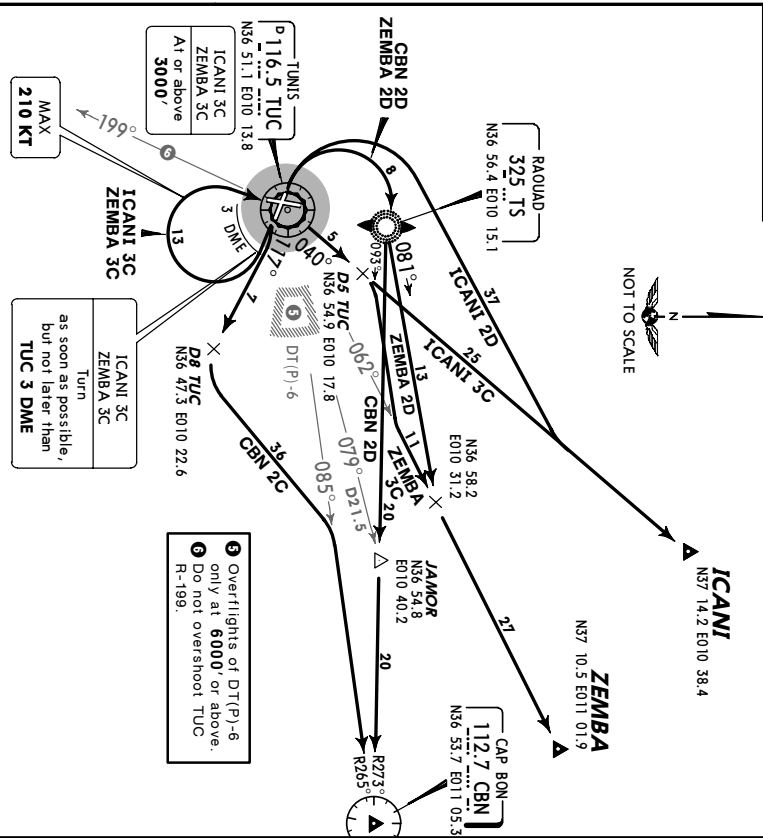
TUNIS, TUNISIA
 SID

Apr Elev
22'

Trans level: By ATC
 SIDs are also noise abatement procedures.

CBN 2C, CBN 2D
 ICANI 3C [ICAN3C], ICANI 2D [ICAN2D]
 ZEMBA 3C, ZEMBA 2D
 RWYS 11, 29 DEPARTURES
 TO NORTHEAST & EAST
SPEEDS MAX 250 KT BELOW FL100

MSA
 TUC VOR
 within 30 NM
 ① 3000' within 20 NM
 ② 3000' within 10 NM
 ③ 3000' within 25 NM



No turn permitted below 500'.

SID	RWY	ROUTING
-----	-----	---------

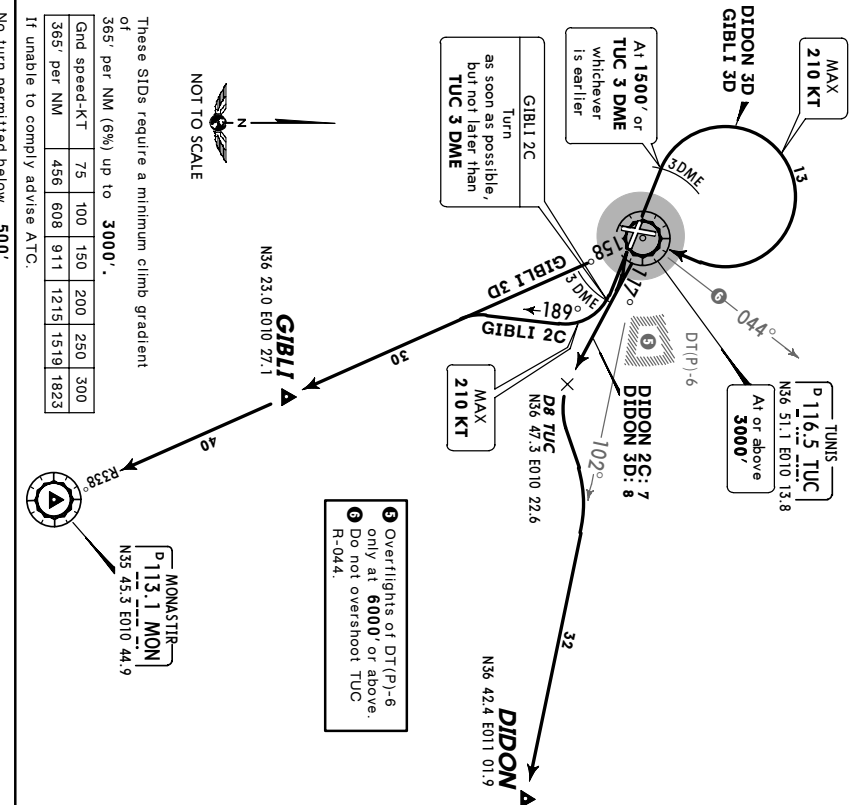
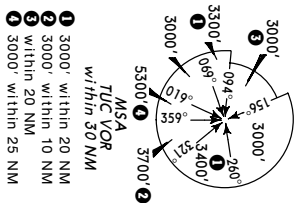
CBN 2C	11	Intercept TUC R-117 to D8 TUC, turn LEFT, intercept TUC R-085 to CBN.
CBN 2D	29	Turn RIGHT to TS, 093° bearing (CBN R-273 inbound) to CBN.
ICANI 3C	11	As soon as possible, but not later than TUC 3 DME turn RIGHT to TUC, TUC R-040 to ICANI.
ICANI 2D	29	Turn RIGHT, intercept TUC R-040 to ICANI.
ZEMBA 3C	11	As soon as possible, but not later than TUC 3 DME turn RIGHT to TUC, TUC R-040 to D5 TUC, turn RIGHT, intercept TUC R-062 to ZEMBA.
ZEMBA 2D	29	Turn RIGHT to TS, 081° bearing, intercept TUC R-062 to ZEMBA.

TUNIS, TUNISIA
SID

Apt Elev 22'	Trans level: By ATC Trans alt: 6000' SIDs are also noise abatement procedures.
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DIDON 2C, DIDON 3D
GIBLI 2C [GIBLI2C], GIBLI 3D [GIBLI3D]
RWYS 11, 29 DEPARTURES
TO SOUTHEAST
SPEED MAY 250 KT BELOW E1100

SPEED: MAX 250 KT BELOW FL100



SID	RWY	ROUTING
-----	-----	---------

365' per NM (6%) up to	3000'
Grid speed K-T	75 100 150 200 250 300
365' per NM	456 608 911 1215 1519 1823

If unable to comply advise ATC.

DIDON 2C	11	Intercept TUC R-117 to D8 TUC, turn LEFT, intercept TUC R-102 to DIDON.
DIDON 3D	29	Climb straight ahead, at 1500' or TUC 3 DME, whichever is earlier, turn RIGHT to TUC, TUC R-117 to D8 TUC, turn LEFT, intercept TUC R-102 to DIDON.
GIBLI 2C	11	As soon as possible, but not later than TUC 3 DME turn RIGHT, 189° track, intercept TUC R-158 to GIBLI.
GIBLI 3D	29	Climb straight ahead, at 1500' or TUC 3 DME, whichever is earlier, turn

CHANGES: DIDON SIDs NavData idents.

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DTA/TUN
CARTHAGE

JEPPesen 29 APR 05 (10-3D) EFF 12 May

TUNIS, TUNISIA
SID

Ap'l Elev 22' Trans level: By ATC Trans alt: 6000'
SIDs are also noise abatement procedures.

NEBRO 2A [NEBR2A], NEBRO 2B [NEBR2B]
RATBA 2A [RATB2A], RATBA 2B [RATB2B]
RWYS 01, 19 DEPARTURES
TO SOUTH

SPEED MAX 250 KT BELOW FL100

At or above 3000' MAX 210 KT

RAUAD 325 TS NS6 56.4 E010 15.1
At 2500' or TS whichever is earlier

DT(P)-6

NEBRO 2A RATBA 2A

NEBRO 2B

TUNIS P 116.5 TUC NS6 51.1 E010 13.8

31 329°

285° 6

37 RATBA 2A, 2B

30 NEBRO

NS6 21.2 E010 09.9

12 RATBA

NS6 17.2 E009 56.0

LOBNA

These SIDs require a minimum climb gradient of NS6 17.2 E009 56.0
365' per NM (6%) up to 3000'.
Gnd speed-KT 75 100 150 200 250 300
365' per NM 456 608 911 1215 1519 1823
If unable to comply advise ATC.

5 Overflights of DT(P)-6 only at 6000' or above.
6 Do not overshoot TUC R-285.

No turn permitted below 500'.

SID	RWY	ROUTING
-----	-----	---------

NEBRO 2A	01	Climb straight ahead, at 2500' or TS, whichever is earlier, turn LEFT to TUC, TUC R-185 to NEBRO.
NEBRO 2B	19	Turn LEFT as soon as possible, intercept TUC R-185 to NEBRO.
RATBA 2A	01	Climb straight ahead, at 2500' or TS, whichever is earlier, turn LEFT to TUC, TUC R-202 to RATBA.
RATBA 2B	19	Turn RIGHT as soon as possible, intercept TUC R-202 to RATBA.

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DTA/TUN
CARTHAGE

JEPPesen 29 APR 05 (10-3E) EFF 12 May

TUNIS, TUNISIA
SID

Ap'l Elev 22' Trans level: By ATC Trans alt: 6000'
SIDs are also noise abatement procedures.

NEBRO 2C [NEBR2C], NEBRO 3D [NEBR3D]
RATBA 2C [RATB2C], RATBA 2D [RATB2D]
RWYS 11, 29 DEPARTURES
TO SOUTH

SPEED MAX 250 KT BELOW FL100

MAX 210 KT

At 1500' or TUC 3 DME whichever is earlier

DT(P)-6

NEBRO 3D RATBA 2D

NEBRO 2D

TUNIS P 116.5 TUC NS6 51.1 E010 13.8

37 RATBA 2D

30 NEBRO 3D

246°

221°

33 NEBRO 2C

30 RATBA 2C

MAX 210 KT

As soon as possible, but not later than TUC 3 DME

NEBRO

NS6 21.2 E010 09.9

12 RATBA

NS6 17.2 E009 56.0

LOBNA

These SIDs require a minimum climb gradient of NS6 17.2 E009 56.0
365' per NM (6%) up to 3000'.
Gnd speed-KT 75 100 150 200 250 300
365' per NM 456 608 911 1215 1519 1823
If unable to comply advise ATC.

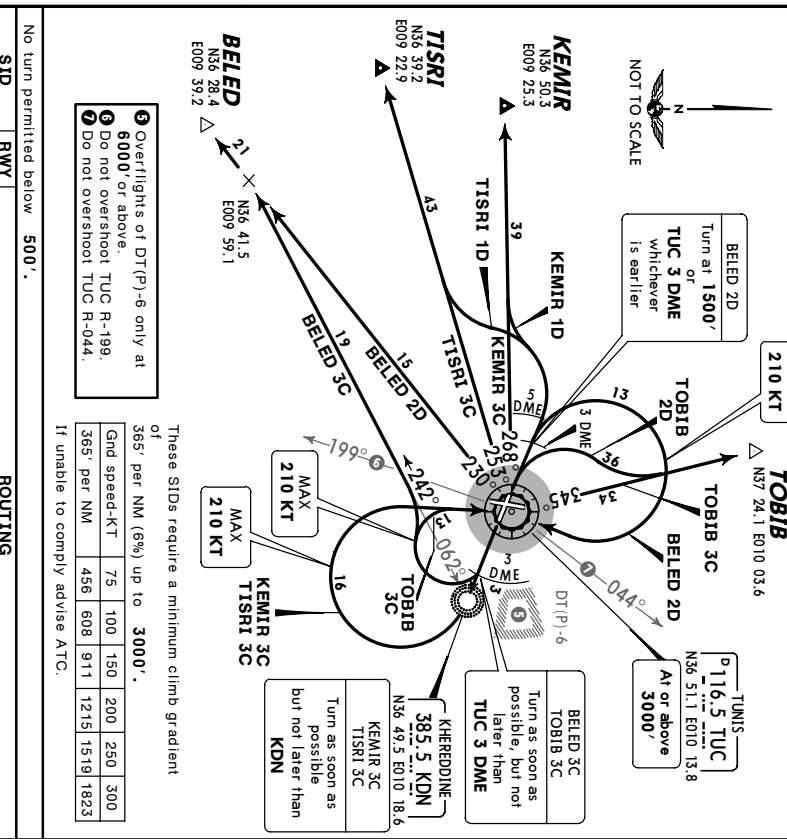
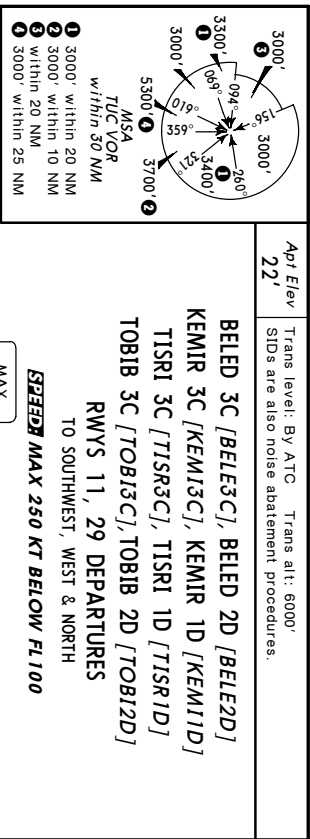
5 Overflights of DT(P)-6 only at 6000' or above.
6 Do not overshoot TUC R-044.

No turn permitted below 500'.

SID	RWY	ROUTING
-----	-----	---------

NEBRO 2C	11	As soon as possible, but not later than TUC 3 DME turn RIGHT, 221° track, intercept TUC R-185 to NEBRO.
NEBRO 3D	29	Climb straight ahead, at 1500' or TUC 3 DME, whichever is earlier, turn RIGHT to TUC, TUC R-185 to NEBRO.
RATBA 2C	11	As soon as possible, but not later than TUC 3 DME turn RIGHT, 246° track, intercept TUC R-202 to RATBA.
RATBA 2D	29	Climb straight ahead, at 1500' or TUC 3 DME, whichever is earlier, turn RIGHT to TUC, TUC R-202 to RATBA.

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BELED 3C	11	As soon as possible, but not later than TUC 3 DME turn RIGHT, intercept 242° bearing from KDN, intercept TUC R-230 to BELED.
BELED 2D	29	Climb straight ahead, at 1500', or TUC 3 DME, whichever is earlier, turn RIGHT to TUC, TUC R-230 to BELED.
KEMIR 3C	11	Straight ahead, as soon as possible, but not later than KDN turn RIGHT to TUC, TUC R-268 to KEMIR.
KEMIR 1D	29	Straight ahead to TUC 5 DME, turn LEFT, intercept TUC R-268 to KEMIR.
TISR1 3C	11	Straight ahead, as soon as possible, but not later than KDN turn RIGHT to TUC, TUC R-253 to TISR1.
TISR1 1D	29	Straight ahead to TUC 5 DME, turn LEFT, intercept TUC R-253 to TISR1.
TOB1B 3C	11	As soon as possible, but not later than TUC 3 DME turn RIGHT to TUC, TUC R-345 to TOB1B.
TOB1B 2D	29	Turn RIGHT, intercept TUC R-345 to TOB1B.

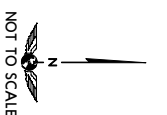
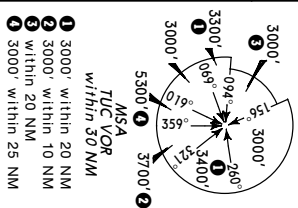
TUNIS, TUNISIA
RNAV SID

JEPPESSEN
25 NOV 05 10-3H

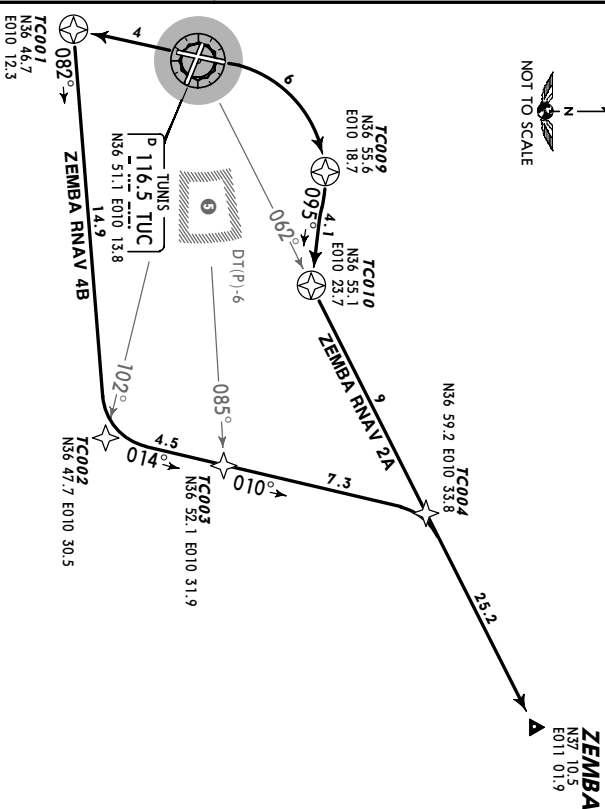
Apt Elev 22'	Trans level: By ATC Trans alt: 6000' SIDs are also noise abatement procedures.
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ZEMBA RNAV 2A [RZEM2A]
ZEMBA RNAV 4B [RZEM4B]
RWYS 01, 19 RNAV DEPARTURES
TO NORTHEAST
ON REQUEST

SPEED: MAX 250 KT BELOW FL100



5 Overflights of DT(P)-6 only at 6000' or above



These SIDs require a minimum climb gradient of **3000'**, 365' per NM (6%) until

Gnd speed-KT	75	100	150	200	250	300
365' per NM	456	608	911	1215	1519	1823

If unable to comply advise ATC.

No turn permitted below 500'. Turns after take-off MAX 205 KT.		
SID		ROUTING
	RWY	
ZEMBA RNAV 2A	01	TC009 - TC010 - ZEMBA.
ZEMBA RNAV 4B	19	TC001 - TC002 - TC003 - TC004 - ZEMBA.

CHANGES: CBN RNAV SIDs transferred; NavData ident's.

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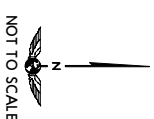
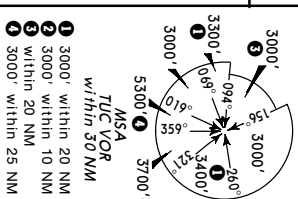
TUNIS, TUNISIA
RNAV SID

JEPPESSEN
25 NOV 05 10-3J

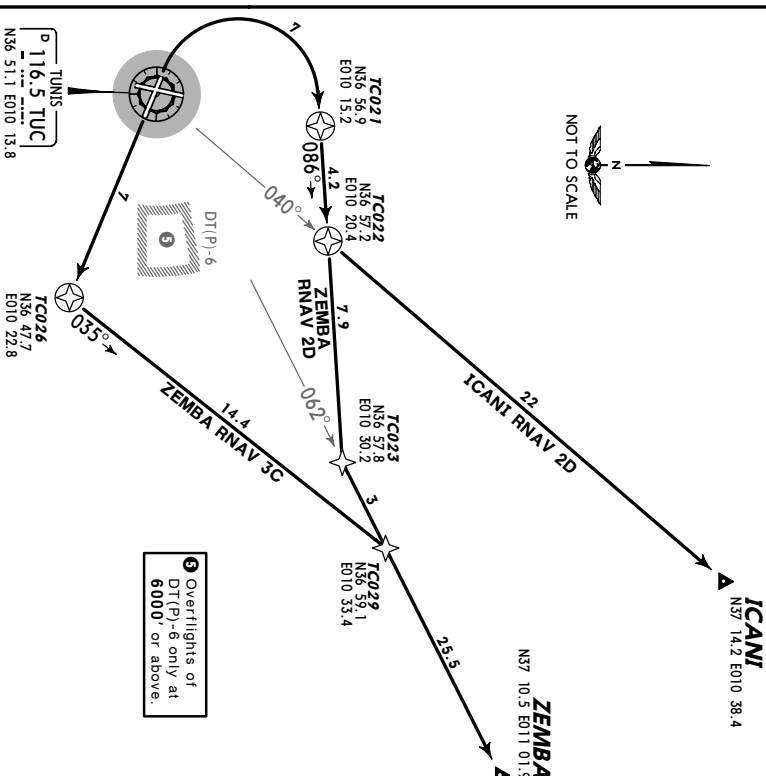
Apt Elev 22'	Trans level: By ATC Trans alt: 6000' SIDs are also noise abatement procedures
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ICANI RNAV 2D [R1CA2D]
ZEMBA RNAV 3C [RZEM3C]
ZEMBA RNAV 2D [RZEM2D]
RWYS 29, 11 RNAV DEPARTURES
TO NORTHEAST
ON REQUEST

SPEED: MAX 250 KT BELOW FL100



5 Overflights of DT(P)-6 only at 6000' or above.



These SIDs require a minimum climb gradient of 365' per NM (6%) until 3000'.

Gnd speed-KT	75	100	150	200	250	300
365' per NM	456	608	911	1215	1519	1823

If unable to comply advise ATC

SID		ROUTING
	RWY	
ICANI RNAV 2D	29	TC021 - TC022 - ICANI.
ZEMBA RNAV 3C	11	TC026 - TC029 - ZEMBA.
ZEMBA RNAV 2D	29	TC021 - TC022 - TC023 - ZEMBA.

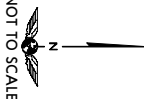
CHANGES: ICANI 2D revised; ZEMBA RNAV SIDs NavData ident's.

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TUNIS, TUNISIA
RNAV SID

- 1 3000' within 20 NM
- 2 3000' within 10 NM
- 3 within 20 NM
- 4 3000' within 25 NM

SPEED: MAX 250 KT BELOW FL100



climb gradient

50	200	250	300
11	1215	1519	1823

If unable to comply advise ATC.

No turn permitted below 500', Turns after take-off MAX 205 KT.	
SID	ROUTING
CBN RNAV 2C	11 TC026 - TC028 - CBN.
CBN RNAV 2D	29 TC021 - TC022 - TC024 - CBN.
DDON RNAV 2C	11 TC026 - TC027 - DDON.
DDON RNAV 3D	29 TC021 - TC022 - TC024 - TC025 - DDON.

CHANGES: RNAV SIDs transferred; DIDON NavData idents.

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CHANGES: NavData idents

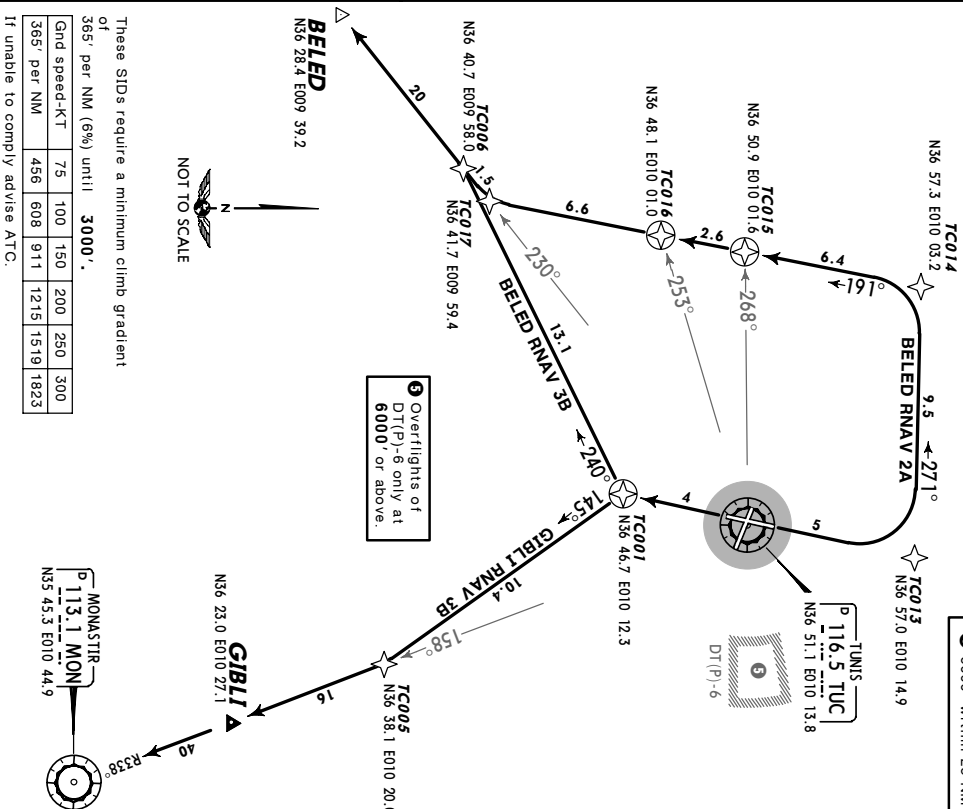
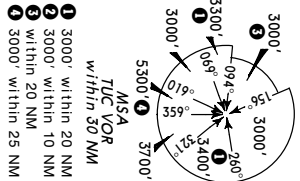
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TUNIS, TUNISIA

MSA
TUC VOR
within 30 NM

3300° 069° 019° 359° 3700° 321° 3400° 3300° 069° 019° 359° 3700°

3000° 300°



E010 44.9

These SIDs require a minimum climb gradient of 365' per NM (6%) until **3000'**.

Gnd speed-KT	75	100	150	200	250
365' per NM	456	608	911	1215	1519

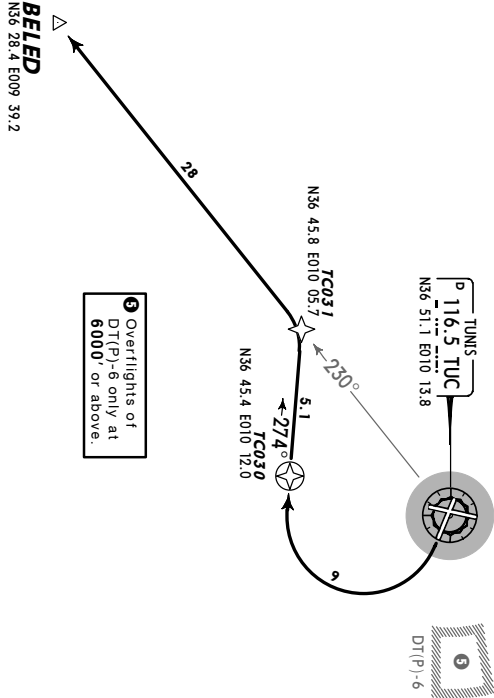
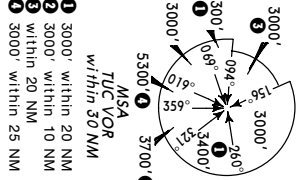
If unable to comply advise ATC.

SID	ROUTING
BELED RNAV 2A	01
BELED RNAV 3B	19
GIBLI RNAV 3B	TC001 - TC005 - GIBLI
	TC001 - TC005 - BELED.

CHANGES: RNAV SIDs revised & transferred.

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TUNIS, TUNISIA
RNAV SID



Gnd speed-KT	75	100	150	200	250	300
365' per NM	456	608	911	1215	1519	1823

These SIDs require a minimum climb gradient of 365' per NM (6%) until **3000'**.

If unable to comply advise ATC.

No turn permitted below 500'. Turns after take-off MAX 205 KT.
TC030 - TC031 - BELED.
ROUTING

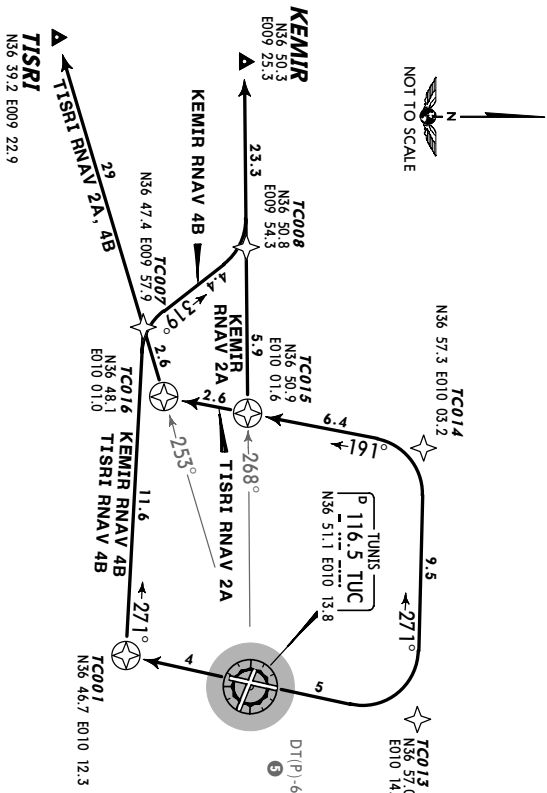
ANGES: RNAV SIDS KEMIR & TISRI transf; BELED RNAV 3C revised. © JEPPESEN SANDERSON, INC., 2005. ALL RIGHTS RESERVED.

TUNIS, TUNISIA
RNAV SID

Figure 1 is a circular diagram illustrating the distribution of MSA and TJC VOR within 30 NM. The diagram is divided into four quadrants, each representing a different MSA. The radial distance from the center represents the TJC VOR. The legend indicates four categories: 1 (3000' within 20 NM), 2 (3000' within 10 NM), 3 (within 20 NM), and 4 (3000' within 25 NM). The diagram shows that the majority of the data points are within 10 NM of the center, with a significant portion being within 20 NM.

KEMIR RNAV 2A [RKEM2A]
KEMIR RNAV 4B [RKEM4B]
TISRI RNAV 2A [RTIS2A]
TISRI RNAV 4B [RTIS4B]
RWYS 01, 19 RNAV DEPARTURES

ON REQUEST
SPEED: MAX 250 KT BELOW FL100



5 Overflights of DT(P)-6 only at 6000' or above.

These SIDs require a minimum climb gradient of 365' per NM (6%) until **3000'**,

Gnd speed-KT	75	100	150	200	250
365' per NM	456	608	911	1215	1519

If unable to comply advise ATC.

Gnd speed-KT	75	100	150	200	250	300
365' per NM	456	608	911	1215	1519	1823

If unable to comply advise ATC.

No turn permitted below 500'. Turns after take-off MAX 205 KT.	
SID	ROUTING
KEMR RNAV 2A 01	TC013 - TC014 - TC015 - KEMIR.
KEMR RNAV 2B 19	TC001 - TC007 - TC008 - KEMIR.
TISR1 RNAV 2A 01	TC013 - TC014 - TC015 - TC016 - TISR1.
TISR1 RNAV 4B 19	TC001 - TC007 - TISR1.

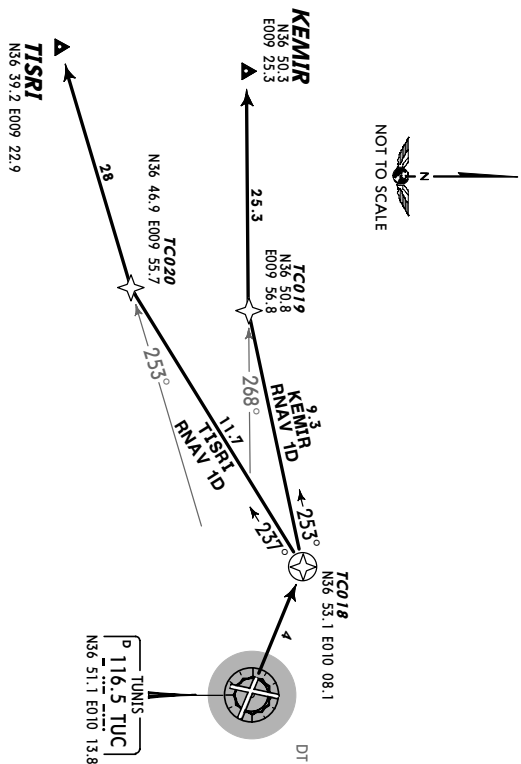
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TUNIS, TUNISIA
RNAV SID

Figure 1 is a map of the study area, showing the location of the MSA TUCVOR within 30 NM. The map displays a circular area with concentric circles representing distances from the TUCVOR. The MSA TUCVOR is marked with a star at the center. The map shows the coastline of the United States and the Gulf of Mexico. The MSA TUCVOR is located within 30 NM of the coastline. The map also shows the location of the MSA TUCVOR within 20 NM, 30 NM, and 50 NM of the coastline. The map includes a scale bar and a north arrow.

KEMIR RNAV 1D [RKEM1D]
TISRI RNAV 1D [RTIS1D]
RWY 29 RNAV DEPARTURES
TO WEST
ON REQUEST
SPEED MAX 250 KT BELOW FL100



5 Overflights of DT(P)-6 only at 6000' or above.

365' per NM (6%) until	3000'.				
Grid speed-KT	75	100	150	200	250
365' per NM	456	608	911	1215	1519

Gnd speed-KT	75	100	150	200	250	300
365' per NM	456	608	911	1215	1519	1823

If unable to comply advise ATC.

No turn permitted below 500'. Turns after take-off MAX 205 KT.	
SID	ROUTING
KEMIR RNAV 1D	TC018 - TC019 - KEMIR.
TISRI RNAV 1D	TC018 - TC020 - TISRI.

RADAR VECTORING DEPARTURE
SPEED: MAX 250 KT BELOW FL100

SPEED: MAX 250 KT BE

Gnd speed-KT	75	100	150	200	250	300
365' per NM	456	608	911	1215	1519	1823

This radar vectoring departure requires a minimum climb gradient of **3000'**, 365' per NM (6%) until **3000'**.

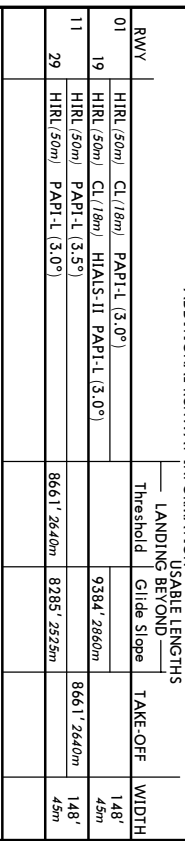
If unable to comply advise ATC.

ROUTING	
Climb on runway heading, when passing	3000' expect radar vectoring.

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**TUNIS, TUNISIA
CARTHAGE**



<p>NOISE ABATEMENT PROCEDURE</p> <p>In case a visual approach is permitted on RWY 11, the clearance will be matched with the following conditions: the acft must be aligned on the RWY centerline at minimum 10 NM from the RWY threshold with minimum overflight altitude of 3000'.</p>		
<p>TAKE-OFF</p>		
<p>AIR CARRIER (JAA)</p> <p>Rwys 01/19 LVP must be in force</p> <p>RL & CL</p>	<p>All Rwys</p> <p>LVP must be in force RCLM (DAY only) or RL</p>	<p>AIR CARRIER (FAR 121)</p> <p>All Rwys</p> <p>Adequate Vis Ref</p>

A		2	400m
B	200m	Eng	
C		3 & 4	
D	250m	Eng	

CHANGES: Twy O added.

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CHANGES: Stands.

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DTA/TUN

27 MAY 05

JEPPESSEN

(10-9X1)

JAA MINIMUMS

TUNIS, TUNISIA

CARTHAGE

TAKE-OFF RWY 01, 19			
LVP must be in Force			
RL & CL		RCLM (DAY only) or RL	RCLM (DAY only) or RL
A	200m	250m	400m
B			
C			
D	250m	300m	500m

TAKE-OFF RWY 11, 29			
LVP must be in Force			
RCLM (DAY only) or RL		RCLM (DAY only) or RL	NIL (DAY only)
A			
B	250m	400m	
C			
D	300m		500m

DTA/TUN

27 MAY 05

JEPPESSEN

(10-9X)

JAA MINIMUMS

TUNIS, TUNISIA

CARTHAGE

STRAIGHT-IN RWY				
	A	B	C	D
01	ILS	230' (217')	240' (227')	250' (237')
		1000m	1100m	1250m
				1350m
	LOC	390' (377')	390' (377')	390' (377')
		1500m	1500m	1800m
				2000m
	VOR DME	390' (377')	390' (377')	390' (377')
		1500m	1500m	1800m
				2000m
	VOR	810' (797')	810' (797')	810' (797')
		1600m	2000m	2800m
11	VOR DME	680' (658')	680' (658')	680' (658')
		1600m	2000m	2800m
				3500m
	RNAV (VOR DME)	680' (658')	680' (658')	680' (658')
		1600m	2000m	2800m
				3500m
19	ILS	281' (260')	291' (270')	301' (280')
		650m	650m	800m
				900m
	ALS out	1200m	1200m	1200m
	LOC	410' (389')	410' (389')	410' (389')
		900m	1000m	1150m
				1400m
	VOR DME	410' (388')	410' (388')	410' (388')
		1500m	1500m	1800m
				2000m
	ALS out	1500m	1500m	1800m
				2000m
	RNAV (VOR DME)	410' (388')	410' (388')	410' (388')
		900m	1000m	1150m
				1400m
29	ILS	241' (230')	251' (240')	261' (250')
		1000m	1100m	1250m
				1350m
	LOC	540' (529')	540' (529')	540' (529')
		1500m	1850m	2150m
				2650m
	VOR DME	540' (529')	540' (529')	540' (529')
		1500m	1850m	2150m
				2650m
	Lctr	540' (529')	540' (529')	540' (529')
		1500m	1850m	2150m
				2650m
	2 Lctr	570' (559')	570' (559')	570' (559')
		1600m	2000m	2500m
				3100m
	RNAV (VOR DME)	500' (489')	500' (489')	500' (489')
		1500m	1700m	2000m
				2450m

1 On request only.

CIRCLE-TO-LAND				
	100 KT	135 KT	180 KT	205 KT
NIGHT: CEIL = MDH	570' (548') 200	710' (688') 2	1240' (1218')	1240' (1218')
	cell360°-V1900m	cell460°-V2800m	cell1810°-V3700m	cell1810°-V4600m

2 After VOR 01: 820' (798').
 3 After VOR DME 11 & RNAV (VOR DME) 11: 690' (668'),
 after apch to Rwy 29: 580' (558') cell 370'.

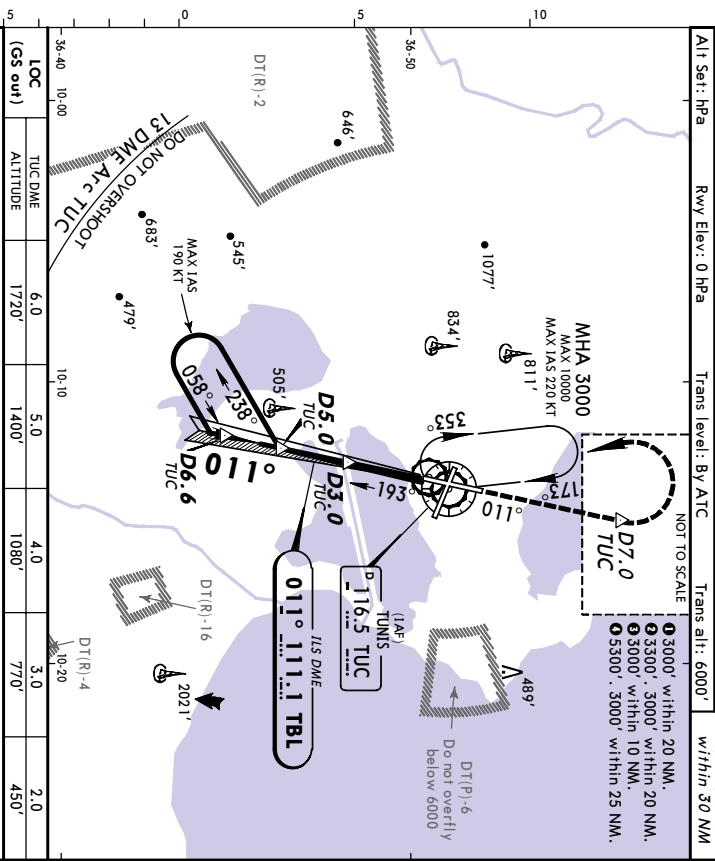
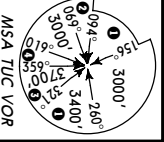
TUNIS, TUNISIA
DME ILS Rwy 01

Y 01

MSA TUC VOR

Compass rose showing bearings to various points:

- 156° to 3000'
- 094° to 260'
- 069° to 3400'
- 3000' to 321°
- 190° to 3700'
- 168° to 3500'



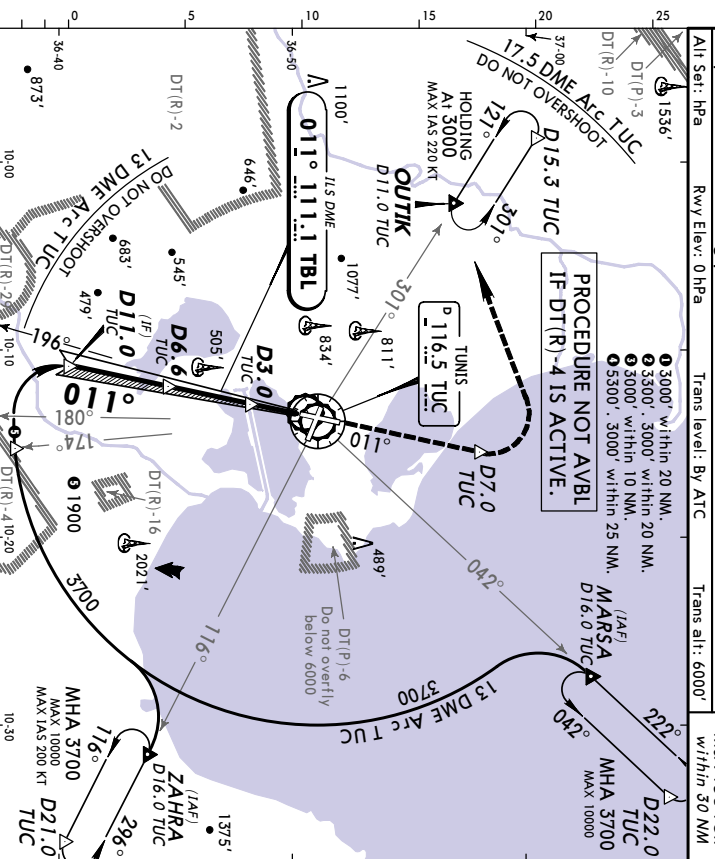
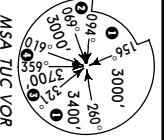
LOC (GS out)	LOC	LOC	LOC	LOC
TUC DME	6.0	5.0	4.0	3.0
ALTITUDE	1720'	1400'	1080'	770'
				450'

<i>Gnd speed Kts</i>	70	90	100	120	140	160		D7.0 TUC
<i>ILS GS 3.00° or LOC Descent Gradient</i>	377	484	538	646	753	861	PAP-L 220 KT MAX	
<i>D5.6 TUC to MAP</i>	5.8	4.58	3.52	3.29	2.54	2.29	2.11	↑
ILS STRAIGHT-IN LANDING RWY 01 LOC (GS out)								
A: 230' (<i>217'</i>) C: 250' (<i>237'</i>) DA(H) B: 240' (<i>227'</i>) D: 260' (<i>247'</i>)	MDA(H) 390' (<i>377'</i>)						CIRCLE-TO-LAND NIGHT: CELL=MDH	
A							Max Kts	MDA(H) _____ CEL-VIS _____
B	1200m						100	560' (<i>538'</i> , <i>360'</i> - .1900m
C	1250m						135	710' (<i>688'</i> , <i>460'</i> - .2800m
D	1350m						180	1240' (<i>1218'</i> , <i>810'</i> - .3700m
							205	1240' (<i>1218'</i> , <i>810'</i> - .4600m

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TUNIS, TUNISIA
DME ILS Rwy 01

Why



LOC	TUC DME				
(GS OUT)	6.0	5.0	4.0	3.0	2.0
	ALTITUDE	1720'	1400'	1080'	770'
					450'

The diagram illustrates the layout of a VOR station. A central point is labeled "VOR". To its left, a horizontal line segment is labeled "1900'". Above this line, there are two points labeled "D11.0 TUC" and "D6.6 TUC". Below the horizontal line, there is a point labeled "D3.0 TUC". To the right of the "VOR" label, there is a point labeled "TCH 52'". The diagram also shows several other points and lines, including a dashed line labeled "M-1" and a solid line labeled "N-1". The angles between the lines are marked as *011° and 011°.

		4.4		3.6		17.0		2.2		RWY 01/13	
Grd Speed-Kts		70	90	100	120	140	160				
ILS GS 3.00° or		377	484	538	646	753	861				
LOC Descent Gradient		5.2%		5.8		4:58 3:52 3:29 2:54 2:29 2:11					
Ds. 6 Tc to MAP											
<div>ILS</div> <div>STRAIGHT-IN LANDING RWY 01</div> <div>LOC (GS out)</div>											
<div> <div>A: 230' (217')</div> <div>C: 250' (237')</div> <div>DA(H)</div> <div>B: 240' (227')</div> <div>D: 260' (247')</div> </div> <div>MDA(H) 390' (377')</div>											
A		Max Kts									
B	1200m	MDA(H) CELL V/S									
C	1600m	560'	(538'	360'	1900m						
D	1250m	710'	(688'	460'	2800m						
E	1650m	1240'	(1218'	810'	3700m						
F	180										
<div>CIRCLE TO LAND</div> <div>NIGHT : CELL=MDH</div>											
PAPI-L		220 KT		MAX		D7.0					
						TUC					
						↑					

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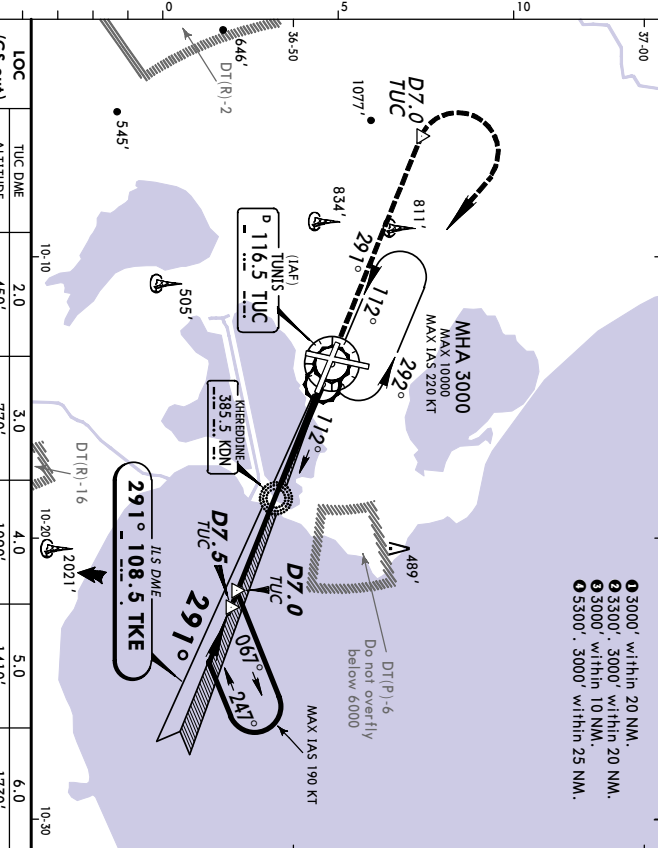
TUNIS, TUNISIA
Lctr ILS Rwy 19

BRIEFING STRIP™				
#ATIS	TUNIS Approach	TUNIS Airport (TWR)	Ground	
118.67	121.2	118.1	121.9	
LOC TKE	Final GS	ILS DA(H) Refer to Minimums	Apr Elev	22'
108.5	291°	2200' (2189')	RWY	11'
MISSED APCH: Climb STRAIGHT AHEAD to D7.0 TUC, then turn RIGHT (MAX IAS 220 KT) to join VOR at 3000'.				
Alt Set: hPa	Rwy Elev: 0 hPa	Trans level: By ATC		Trans alt: 6000'

3000' 3400'

094° 260° 080° 300° 055° 032°

MSA 300 TUC VOR within 30 NM



OPS									
Grnd speed Kts	70	90	100	120	140	160	D7.0		
ILS GS 3.00° or	377	485	539	647	755	862	PAPI-L		
LOC Descent Gradient	5.2%						TUC		
MAP at VOR							↑		
<div> <div> <div>ILS</div> <div>STRAIGHT-IN LANDING RWY 29</div> </div> <div> <div>LOC (GS out)</div> <div>CIRCLE-TO-LAND</div> </div> </div>									
<div> <div>DA(H) A: 241' (230') C: 261' (250') B: 251' (240') D: 271' (260')</div> <div>MDA(H) 540' (529')</div> <div>Max Kts 100</div> <div>MDA(H) 580' (558') CEIL-VIS 370' - 1900m</div> </div>									
A	1200m		1600m		1850m		710' (688')		460' - 2800m
B	1250m		2150m		180		1240' (1218')		810' - 3700m
C	1350m		2650m		205		1240' (1218')		810' - 4600m
D	1350m								

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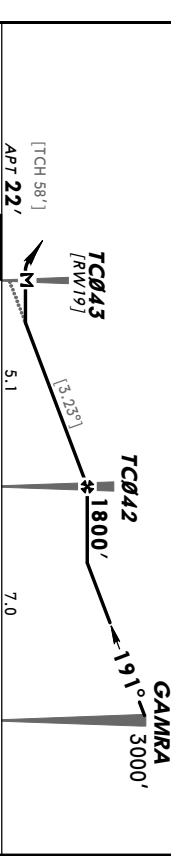
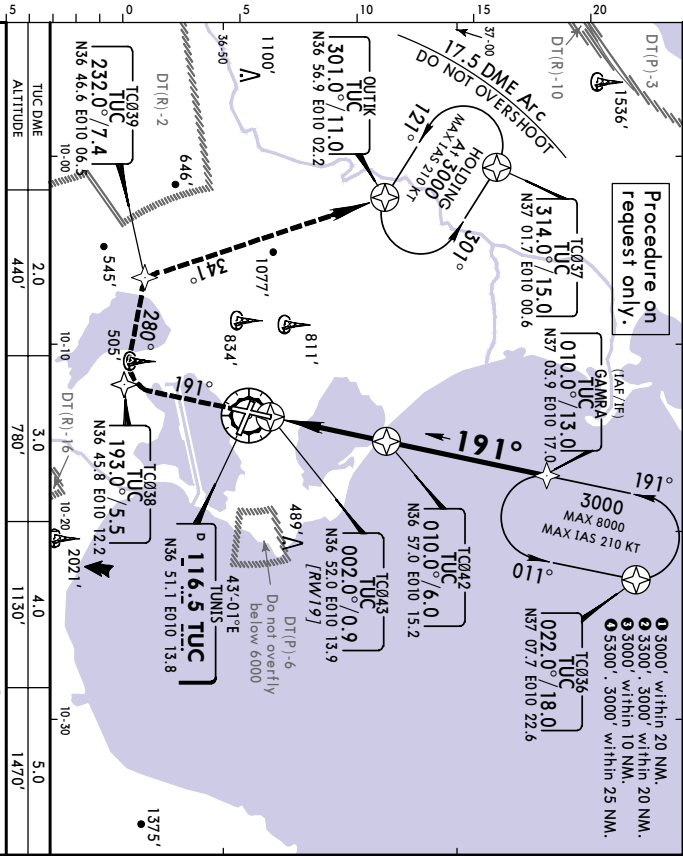
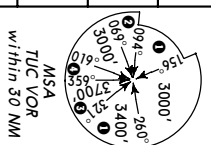
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DTA/TUN
CARTHAGE

JEPPRESEN
4 FEB 05 (12-2)

TUNIS, TUNISIA
RNAV (VOR DME) Rwy 19

*ATIS	TUNIS Approach	TUNIS Airport (TWR)	Ground
118.67	121.2	118.1	121.9
VOR TUC	Final Apch Crs	Minimum Alt TC042 (1778')	MDA(H) 410' (388') Apri Elev 22'
116.5	191°	1800' (1778')	
MISSED APCH: Climb to TC038, then turn RIGHT to TC039 to join OUTIK pattern at 3000' and as directed. MAX IAS 210 KT.			
Alt Set: hPa	Apri Elev: 1 hPa	Trans level: By ATC	Trans alt: 6000'



Grnd speed Kts	70	90	100	120	140	160	HAIS-II PAPRI	210 KT MAX	TC038
Descent Gradient 5.63% or 3.23°	400	514	571	686	800	914			
MAP at TC043									

STRAIGHT-IN LANDING Rwy 19

CIRCLE-TO-LAND
NIGHT: CEL=MDH

MDA(H) 410' (388')

ALS out

Max

MDA(H) 560' (538')

CEL-VIS 360' 1900m

710' (688')

460' 2800m

810' 3700m

810' 4600m

205

1240' (1218')

810' 4600m

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810' 4600m

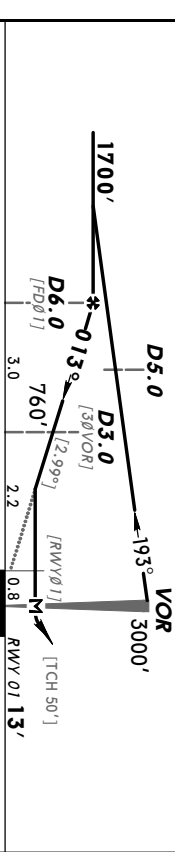
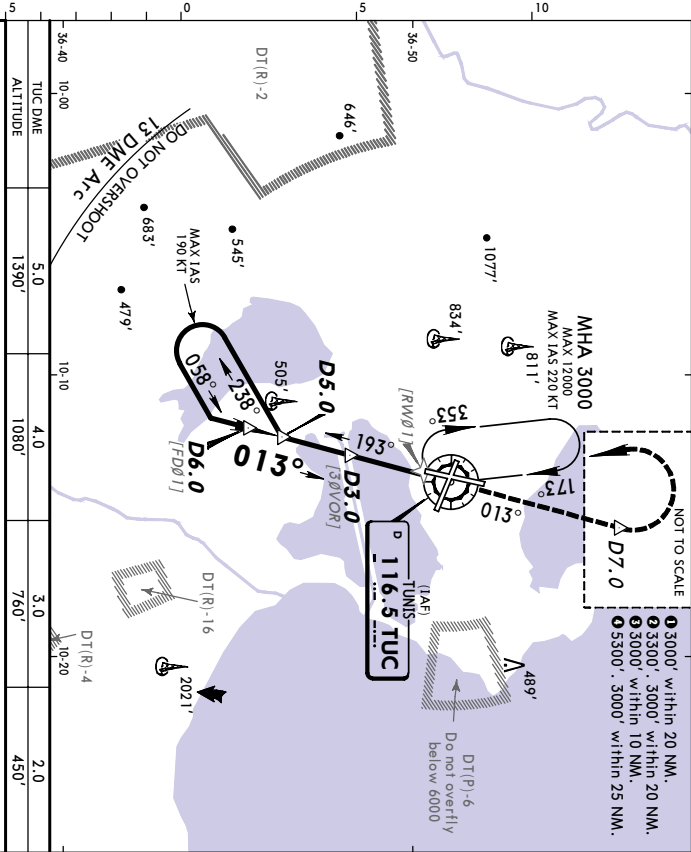
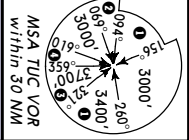
205

1240' (1218')

810' 4600m

DTA/TUN
CARTHAGE
28 JAN 05 (3-1)
JEPPRESEN
TUNIS, TUNISIA
VOR DME Rwy 01

*ATIS	TUNIS Approach	TUNIS Airport (TWR)	Ground
118.67	121.2	118.1	121.9
VOR	Final	Minimum Alt	MDA (H)
TUC	Apch Crs	D6.0	390' (377')
116.5	013°	1700' (1687')	Ap ^t Elev 22'
			RWY 13'
MISSED APCH: Climb on R-013 to D7.0, then turn LEFT to join VOR at 3000'.			
Alt Set: Hpa	Rwy Elev: 0 Hpa	Trans level: By ATC	Trans alt: 6000'
NOT TO SCALE			MSA TUC VOR within 30 NM



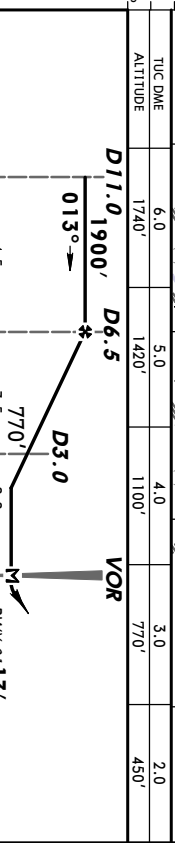
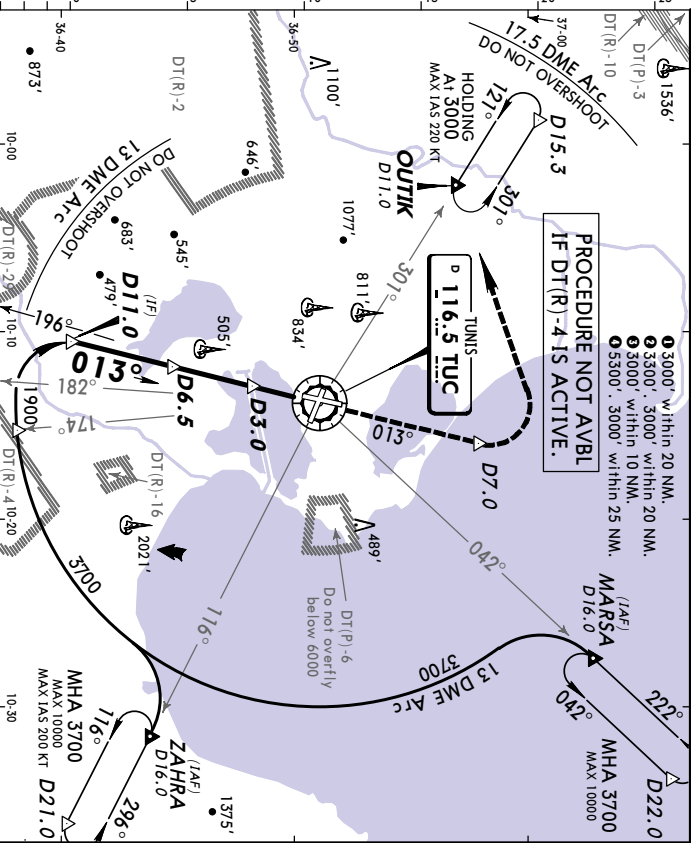
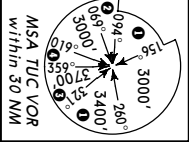
Grnd speed-Kts	70	90	100	120	140	160
Descent Gradient 5.21% or	370	476	529	635	741	846
Descent angle [2.99°]						
MAP at VOR						

MDA(H) 390' (377')	Max Kts	MDA(H) 560' (538')	CEL V/S
	100	360' - 1900m	
	135	710' (688')	460' - 2800m
	180	1240' (1218')	810' - 3700m
	200m	1240' (1218')	810' - 4600m

STRAIGHT-IN LANDING RWY 01
CIRCLE-TO-LAND
NIGHT: CEL=MDH
PANS OPS
CHANGES: ATIS frequency.

DTA/TUN
CARTHAGE
28 JAN 05 (3-2)
JEPPRESEN
TUNIS, TUNISIA
via MARSAVOR DME Rwy 01
or ZAHRA

*ATIS	TUNIS Approach	TUNIS Airport (TWR)	Ground
118.67	121.2	118.1	121.9
VOR	Final	Minimum Alt	MDA (H)
TUC	Apch Crs	D6.5	390' (377')
116.5	013°	1900' (1887')	Ap ^t Elev 22'
			RWY 13'
MISSED APCH: Climb STRAIGHT AHEAD to D7.0 then turn LEFT to join OUTIK holding pattern at 3000'. MAX IAS 220 KT.			
Alt Set: Hpa	Rwy Elev: 0 Hpa	Trans level: By ATC	Trans alt: 6000'
NOT TO SCALE			MSA TUC VOR within 30 NM



Grnd speed-Kts	70	90	100	120	140	160
Descent Gradient 5.3%	376	483	537	644	751	859
Descent angle						
MAP at VOR						

MDA(H) 390' (377')	Max Kts	MDA(H) 560' (538')	CEL V/S
	100	360' - 1900m	
	135	710' (688')	460' - 2800m
	180	1240' (1218')	810' - 3700m
	200m	1240' (1218')	810' - 4600m

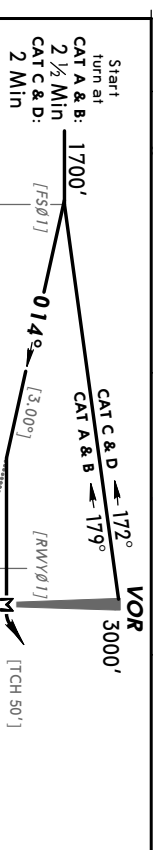
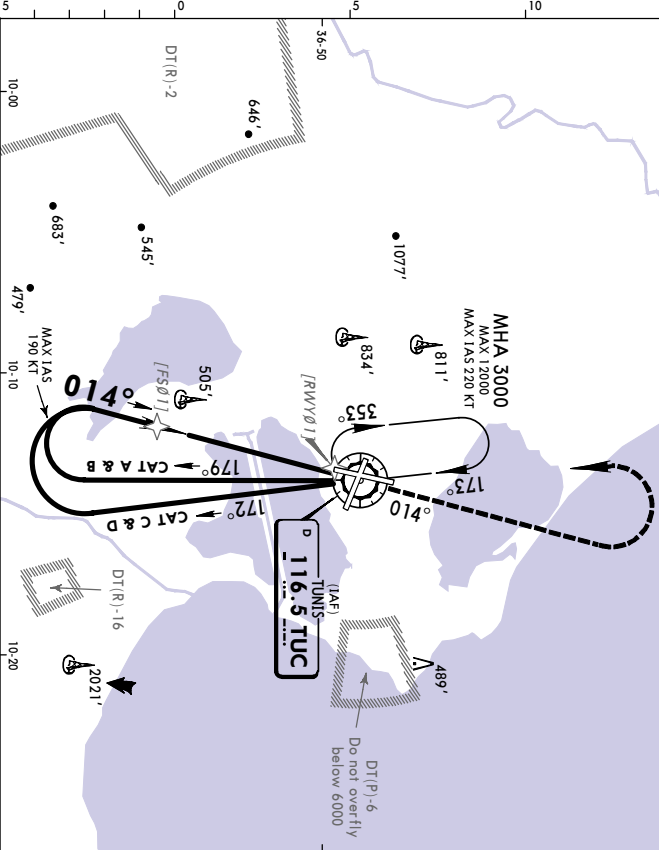
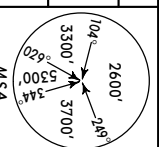
STRAIGHT-IN LANDING RWY 01
CIRCLE-TO-LAND
NIGHT: CEL=MDH
PANS OPS
CHANGES: ATIS frequency. Procedure.

DTA/TUN
CARTHAGE

28 JAN 05
(13-3)

TUNIS, TUNISIA
VOR Rwy 01

*ATIS	TUNIS Approach	TUNIS Airport (TWR)	Ground
118.67	121.2	118.1	121.9
VOR TUC 116.5	Final Apch Crs 014°	Minimum Alt MDA(H) 810' (797')	Appt Elev 22' Rwy 13'
MISSED APCH: Climb on R-014 to 2000', then turn LEFT to join VOR at 3000'. Do not turn before MAP.			
Alt Set: hPa	Rwy Elev: 0 hPa	Trans level: By ATC	Trans alt: 6000'



Grnd speed-Kts	70	90	100	120	140	160
Descent Gradient 5.24% or [3.00°]	372	478	531	637	743	849
MAP at VOR						

MDA(H) 810' (797')	Max Kts	MDA(H)	CEL. VIS
	100	820' (798')	540' - 1900m
	135	820' (798')	540' - 2800m
	180	1240' (1218')	810' - 3700m
	205	1240' (1218')	810' - 4600m

STRAIGHT-IN LANDING Rwy 01
CIRCLE-TO-LAND
NIGHT: CELL=MDH

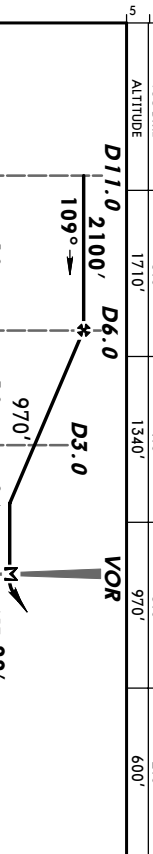
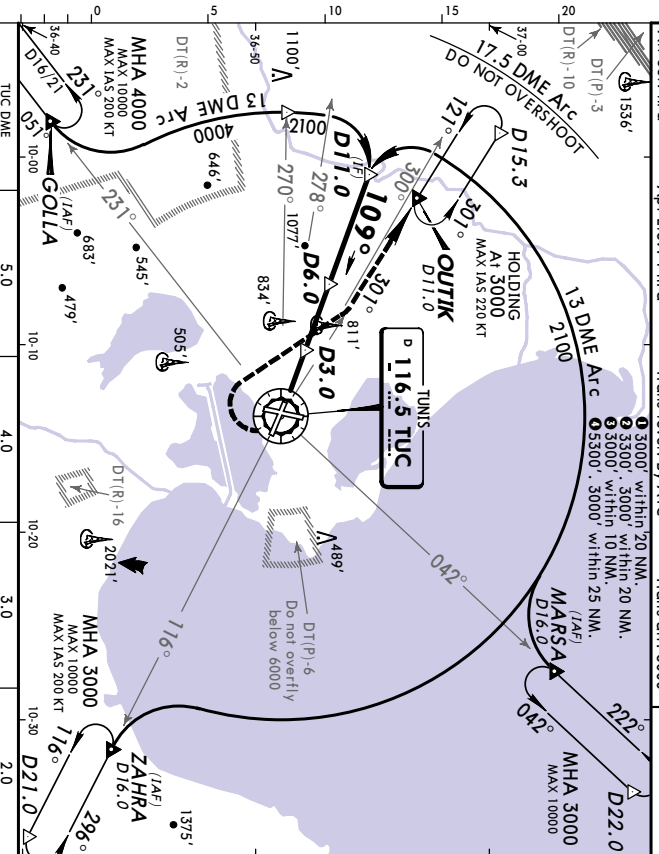
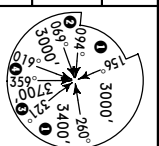
PANS OPS
CHANGES: ATIS frequency, Procedure, Minimums.
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DTA/TUN
CARTHAGE

28 JAN 05
(13-4)

TUNIS, TUNISIA
via ZAHRA,
MARSA or GOLLA VOR DME Rwy 11

*ATIS	TUNIS Approach	TUNIS Airport (TWR)	Ground
118.67	121.2	118.1	121.9
VOR TUC 116.5	Final Apch Crs 109°	Minimum Alt MDA(H) 680' (658')	Appt Elev 22'
MISSED APCH: Turn RIGHT to Intercept and follow R-301 to join OUTIK holding at 3000' and as directed. MAX IAS 220 KT.			
Alt Set: hPa	Appt Elev: 1 hPa	Trans level: By ATC	Trans alt: 6000'



Grnd speed-Kts	70	90	100	120	140	160
Descent Gradient 6.1% [432 556 618 741 865 988]						
MAP at VOR						

MDA(H) 680' (658')	Max Kts	MDA(H)	CEL. VIS
	100	690' (668')	440' - 1900m
	135	710' (688')	440' - 2800m
	180	1240' (1218')	810' - 3700m
	205	1240' (1218')	810' - 4600m

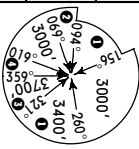
STRAIGHT-IN LANDING Rwy 11
CIRCLE-TO-LAND
NIGHT: CELL=MDH

PANS OPS
CHANGES: ATIS frequency.
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TUNIS, TUNISIA
VOR DME Rwy 19

TUNIS, TUNISIA
OR DME Rwy 19

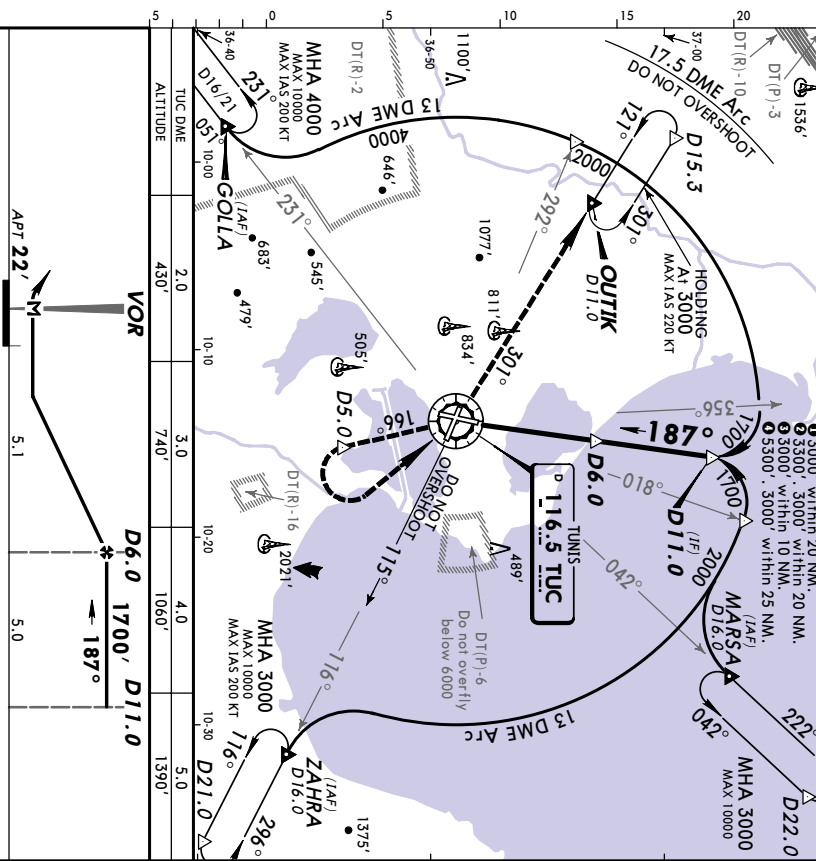
* ATIS				TUNIS Approach	TUNIS Airport (TWIR)	Ground
118.67	121.2	118.1	121.9			
VOR TUC 116.5	Final Apch Crs 187°	Minimum Alt D6.0 1700' (1678')	MDA(H) 410' (386')	Apf Elev 22'		
<p>MISSD APCH: As soon as possible climbing turn LEFT on R-166 to D5.0, then turn LEFT to VOR. Follow R-301 to join OUTLK holding at 3000' and as directed. MAX IAS 220 KT.</p>						



D5.0, then turn LEFT to VOR. Follow R-301 to join OUTIK

holding at 3000 and as directed. MAX IAS 220 KT.

Alt Set: mPa	Apt Elev: 1 mPa	Trans level: By AIC	Trans alt: 600
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Gnd speed-Kts	70	90	100	120	140	160	HLS-II PAPY	Refer to Missed Apch above
Descent Gradient	5.3%	376	483	537	644	751		
MAR at VOR								
STRAIGHT-IN LANDING RWY 19							CIRCLE-TO-LAND	
MDA(H) 410' (388')							NIGHT : CEIL=MDH	
A	800m							
B	950m							
C	1150m							
D	1600m							

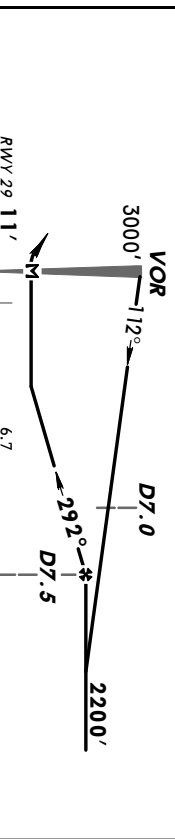
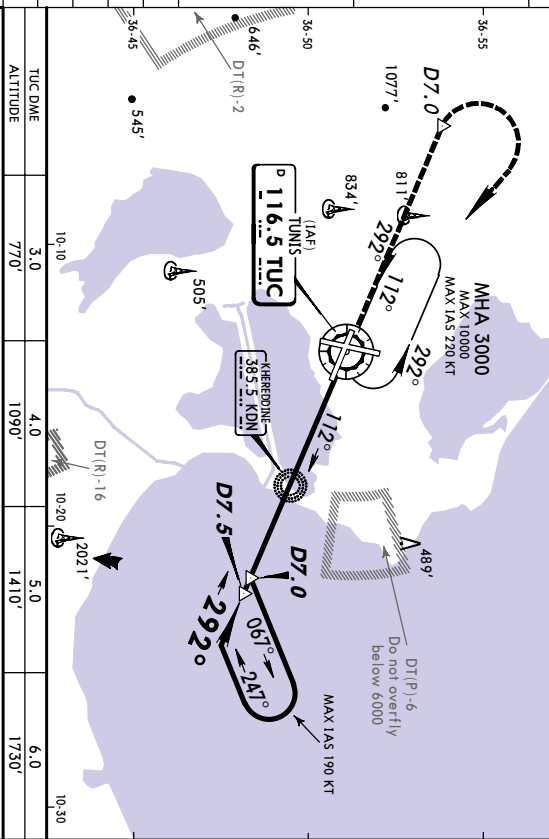
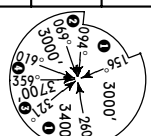
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DTA/TUN
CARTHAGE
4 FEB 05
JEPPRESEN
TUNIS, TUNISIA
VOR DME Rwy 29

*ATIS	TUNIS Approach	TUNIS Airport (TWR)	Ground
118.67	121.2	118.1	121.9
VOR TUC 116.5	Final Appch Crs 292°	Minimum Alt D7.5 540' (529')	MDA(H) Ap'l Elev 22' Rwy 11'
MISSED APCH: Climb STRAIGHT AHEAD to D7.0, then turn RIGHT (MAX IAS 220 KT) to join VOR at 3000'.			
Alt Set: hPa	Rwy Elev: 0 hPa	Trans level: By ATC	Trans alt: 6000' TUC VOR within 30 NM

- ① 3000' within 20 NM.
- ② 3300' . 3000' within 20 NM.
- ③ 3000' within 10 NM.
- ④ 5300' . 3000' within 25 NM.

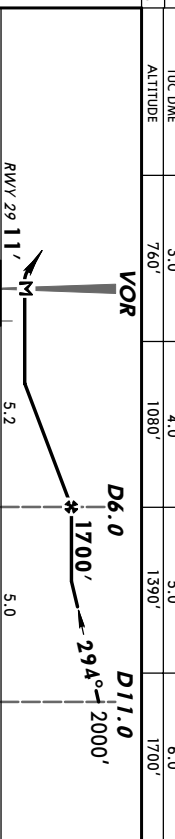
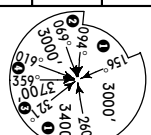


Grnd speed-Kts	70	90	100	120	140	160	TUC
Descent Gradient 5.3%	376	483	537	644	751	859	D7.0
MAP at VOR							
STRAIGHT-IN LANDING Rwy 29				CIRCLE-TO-LAND NIGHT: CEIL=MDH			
MDA(H) 540' (529')	Max Kts			MDA(H)	CEIL-VIS		
A 1600m	100	100	100	580' (558')	370' - 1900m		
B 1850m	135	135	135	710' (688')	460' - 2800m		
C 2150m	180	180	180	1240' (1218')	810' - 3700m		
D 2650m	205	205	205	1240' (1218')	810' - 4600m		

DTA/TUN
CARTHAGE
4 FEB 05
JEPPRESEN
TUNIS, TUNISIA
via ZAHRA
VOR DME Rwy 29

*ATIS	TUNIS Approach	TUNIS Airport (TWR)	Ground
118.67	121.2	118.1	121.9
VOR TUC 116.5	Final Appch Crs 294°	Minimum Alt D6.0 540' (529')	MDA(H) Ap'l Elev 22' Rwy 11'
MISSED APCH: Climb STRAIGHT AHEAD to D7.0, then turn RIGHT to intercept R-301 and join holding at 3000'. MAX IAS 220 KT.			
Alt Set: hPa	Rwy Elev: 0 hPa	Trans level: By ATC	Trans alt: 6000' TUC VOR within 30 NM

- ① 3000' within 20 NM.
- ② 3300' . 3000' within 20 NM.
- ③ 3000' within 10 NM.
- ④ 5300' . 3000' within 25 NM.



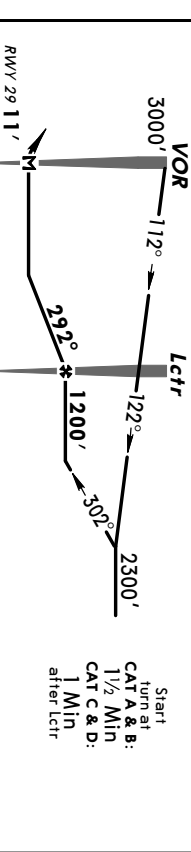
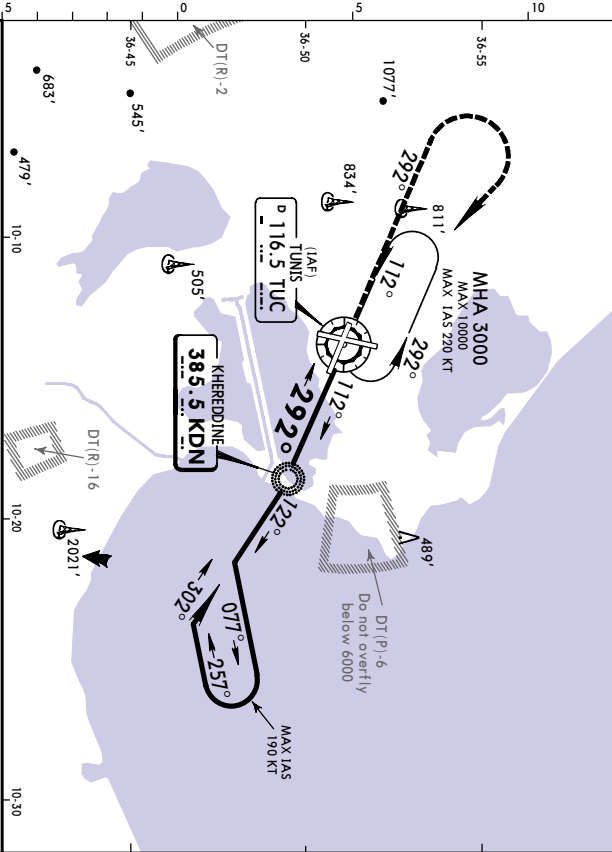
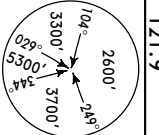
Grnd speed-Kts	70	90	100	120	140	160	TUC
Descent Gradient 5.2%	369	474	527	632	737	843	D7.0
MAP at VOR							
STRAIGHT-IN LANDING Rwy 29				CIRCLE-TO-LAND NIGHT: CEIL=MDH			
MDA(H) 540' (529')	Max Kts			MDA(H)	CEIL-VIS		
A 1600m	100	100	100	580' (558')	370' - 1900m		
B 1850m	135	135	135	710' (688')	460' - 2800m		
C 2150m	180	180	180	1240' (1218')	810' - 3700m		
D 2650m	205	205	205	1240' (1218')	810' - 4600m		

DTTA/TUN
CARTHAGE

JEPPRESEN
4 FEB 05 (16-1)

TUNIS, TUNISIA
VOR Lctr Rwy 29

*ATIS	TUNIS Approach	TUNIS Airport (TWR)	Ground
118.67	121.2	118.1	121.9
Lctr KDN 385.5	Final Apch Crs 292°	Minimum Alt Lctr 1200' (1189')	MDA(H) 540' (529')
		Appt Elev 22'	Rwy Elev 11'
MISSED APCH: Climb STRAIGHT AHEAD. At 1500' turn RIGHT (MAX IAS 220 KT) to join VOR at 3000'.			
Do not turn before passing MAP.			
Alt Set: hPa	Rwy Elev: 0 hPa	Trans level: By ATC	Trans alt: 6000'
			MSA TUC VOR



Grnd speed-Kts	70	90	100	120	140	160	TO DISPLACED THRESHOLD
Descent Gradient	5.6%	397	510	567	681	794	1500'
Lctr to MAP	4.2	3:36	2:48	2:31	2:06	1:48	1:35

MDA(H)	540' (529')	Max Kts	MDA(H)	CEIL-VIS
A	1600m	100	580' (558')	370' - 1900m
B	1850m	135	710' (688')	460' - 2800m
C	2150m	180	1240' (1218')	810' - 3700m
D	2650m	205	1240' (1218')	810' - 4600m

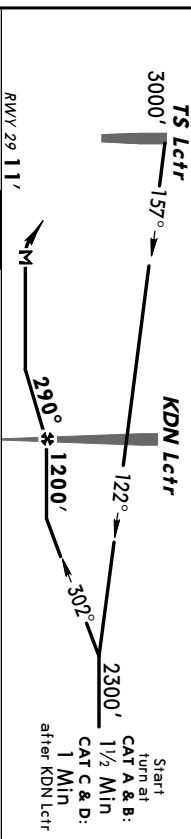
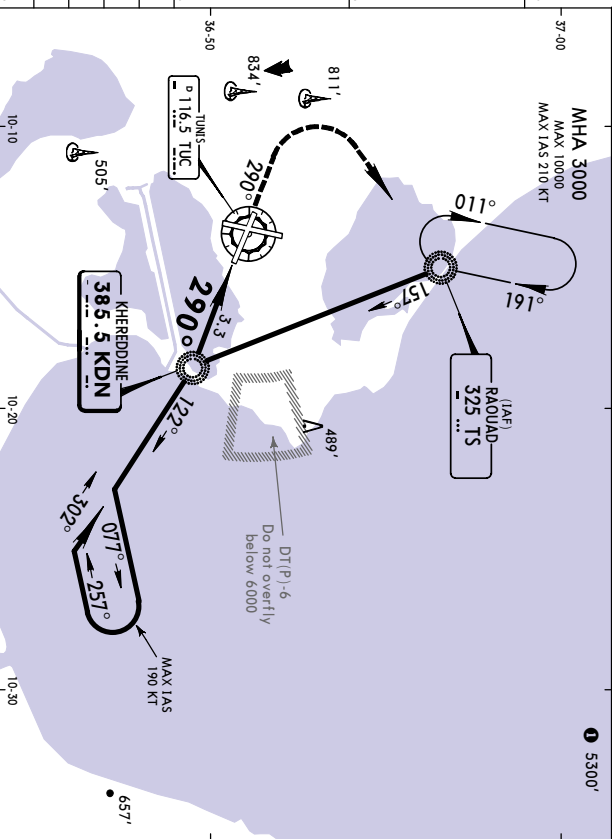
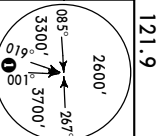
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DTTA/TUN
CARTHAGE

JEPPRESEN
4 FEB 05 (16-2)

TUNIS, TUNISIA
2 Lctr Rwy 29

*ATIS	TUNIS Approach	TUNIS Airport (TWR)	Ground
118.67	121.2	118.1	121.9
Lctr KDN 385.5	Final Apch Crs 290°	Minimum Alt KDN Lctr 1200' (1189')	MDA(H) 570' (559')
		Appt Elev 22'	Rwy Elev 11'
MISSED APCH: Climb STRAIGHT AHEAD until 1500', then turn RIGHT (MAX IAS 210 KT) to TS Lctr climbing to 3000'.			
Do not turn before passing MAP.			
Alt Set: hPa	Rwy Elev: 0 hPa	Trans level: By ATC	Trans alt: 6000'
			MSA TS Lctr



Grnd speed-Kts	70	90	100	120	140	160	TO DISPLACED THRESHOLD
Descent Gradient	5.6%	397	510	567	681	794	1500'
KDN Lctr to MAP	3.3	2:50	2:12	1:59	1:39	1:25	1:14

MDA(H)	570' (559')	Max Kts	MDA(H)	CEIL-VIS
A	1600m	100	560' (538')	370' - 1900m
B	2000m	135	710' (688')	460' - 2800m
C	2500m	180	1240' (1218')	810' - 3700m
D	3100m	205	1240' (1218')	810' - 4600m

PANS OPS
CHANGES: ATIS frequency.
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