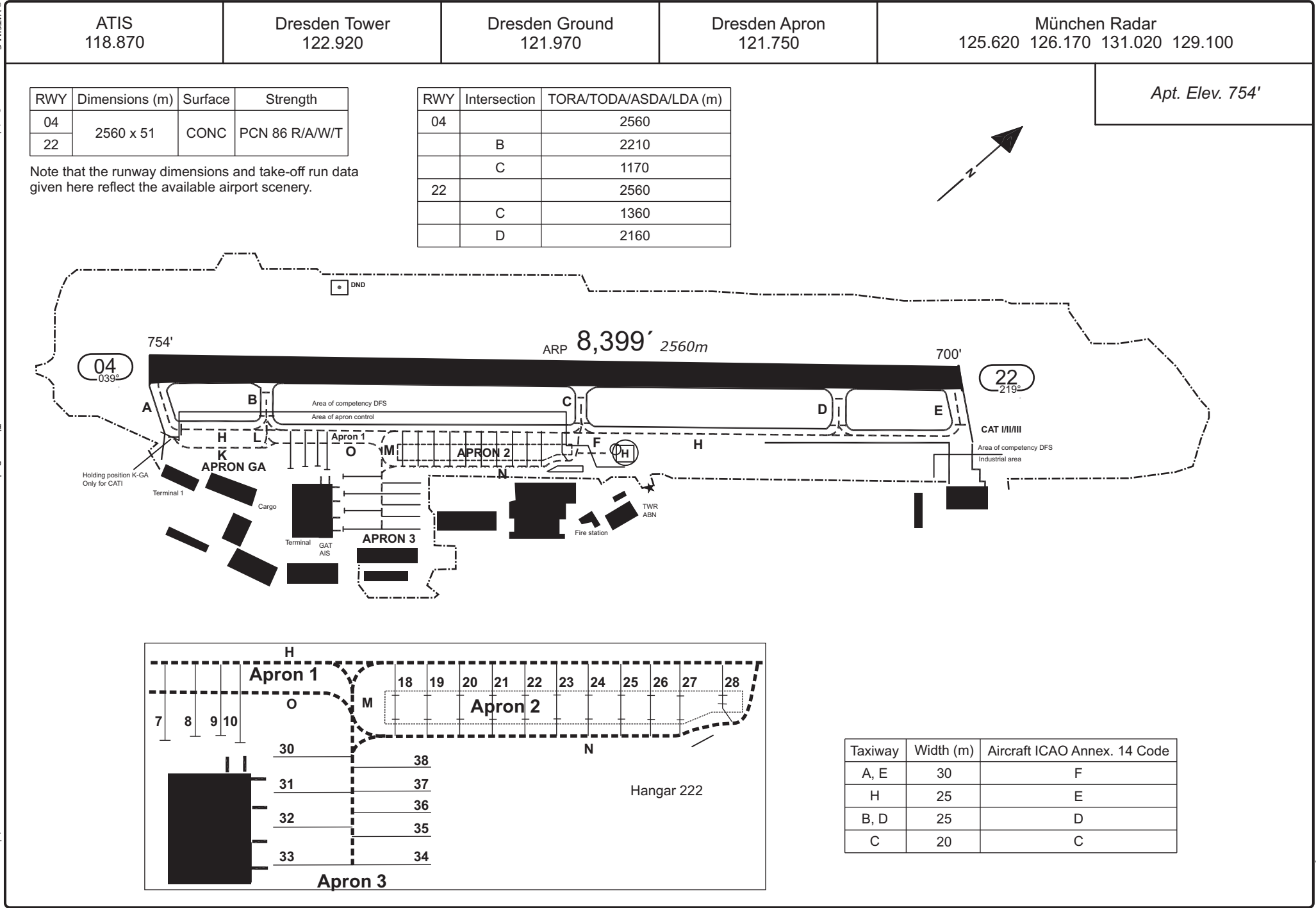
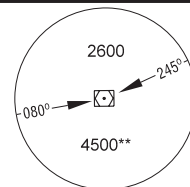




MÜNCHEN RADAR 125.620 126.170
131.020 129.100

TOWER 122.920
GROUND 121.970
APRON 121.750
ATIS 118.870

Mag. Variation 2° E
Elevation 754'
Transition altitude 5000'
Transition level by ATC

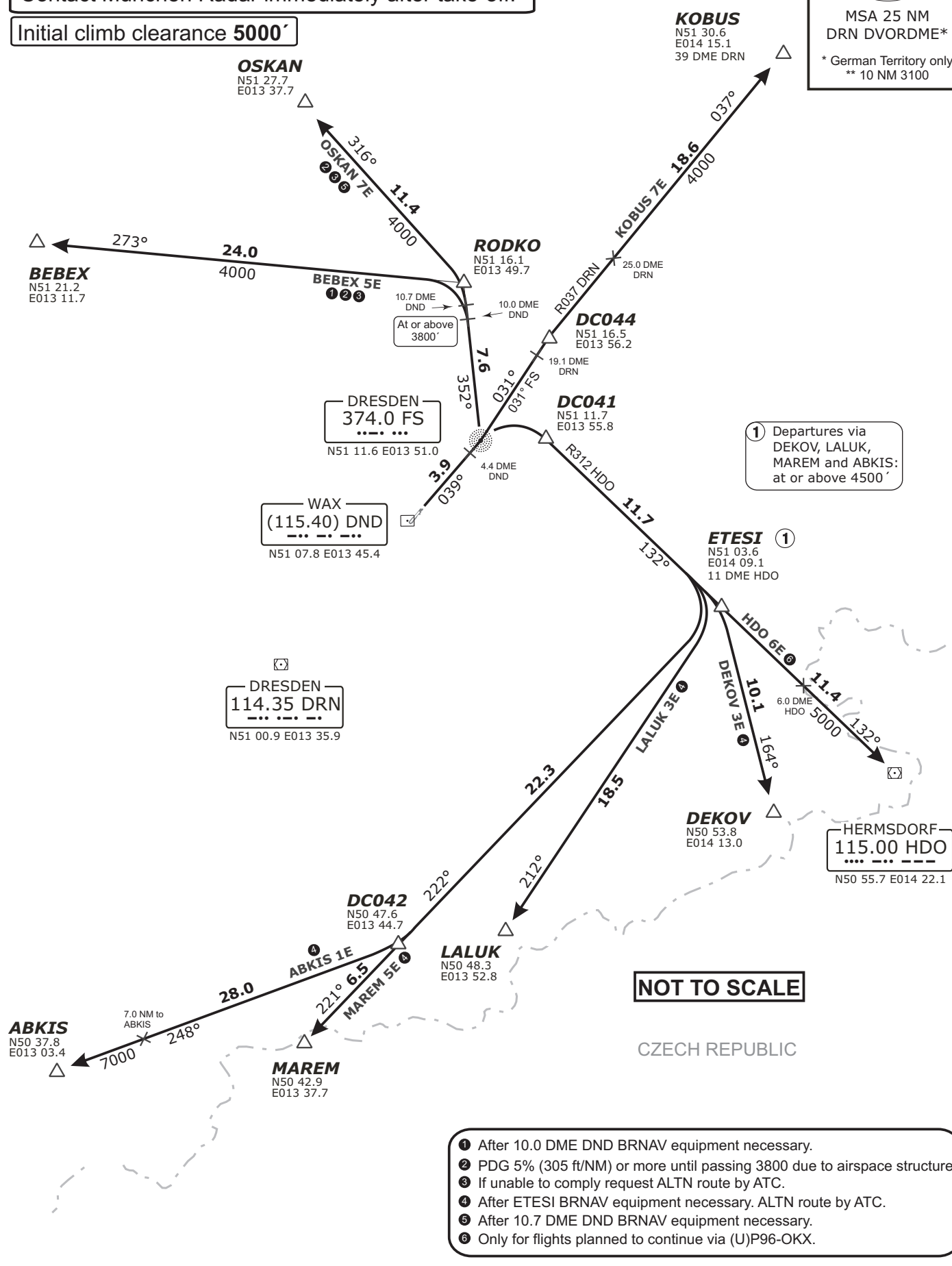


MSA 25 NM
DRN DVORDME*

* German Territory only
** 10 NM 3100

Contact München Radar immediately after take-off!

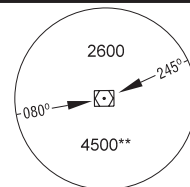
Initial climb clearance 5000'



MÜNCHEN RADAR 125.620 126.170
131.020 129.100

TOWER 122.920
GROUND 121.970
APRON 121.750
ATIS 118.870

Mag. Variation 2° E
Elevation 754'
Transition altitude 5000'
Transition level by ATC

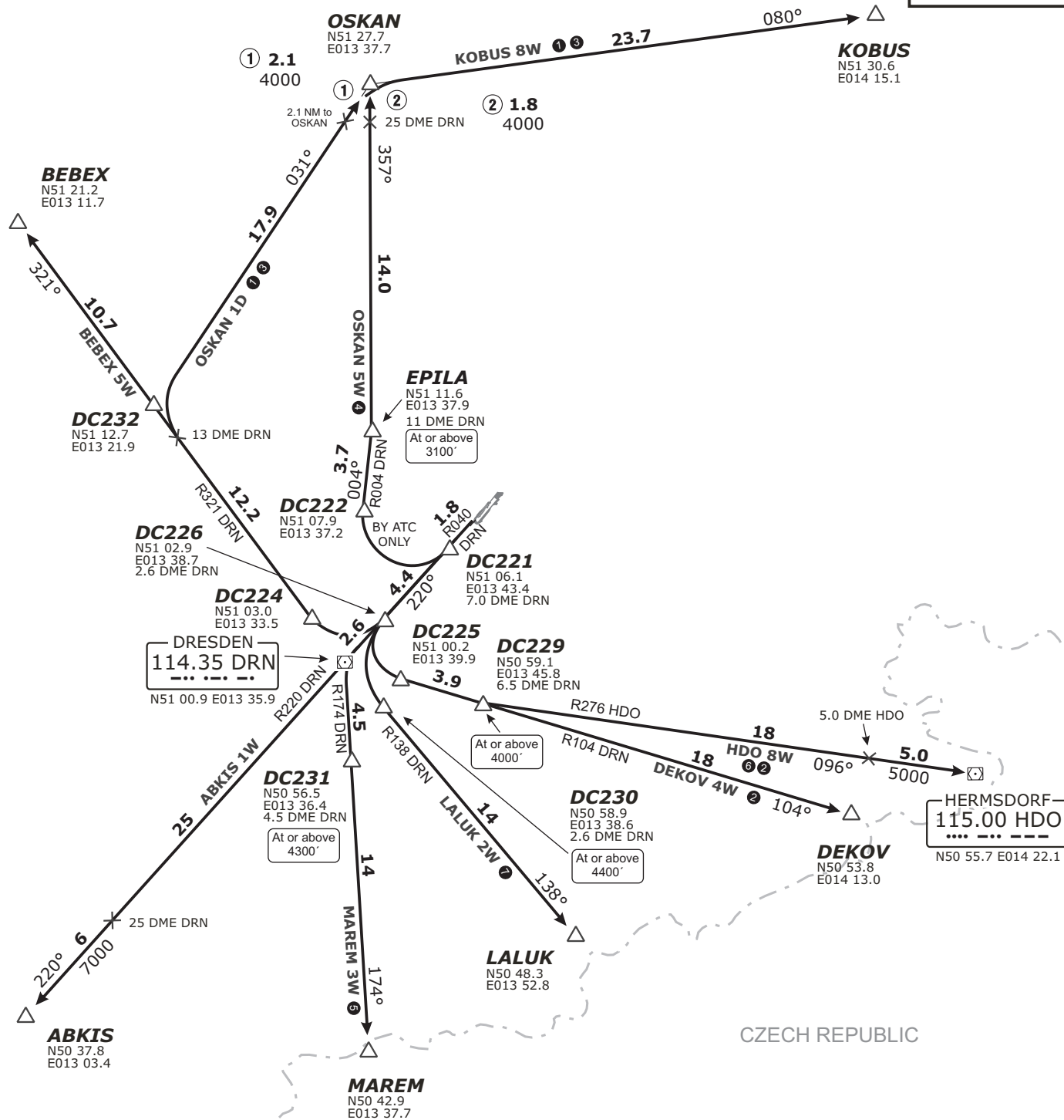


MSA 25 NM
DRN DVORDME*

* German Territory only
** 10 NM 3100

Contact München Radar immediately after take-off!

Initial climb clearance 5000'



- 1 After 13.0 DME DND BRNAV equipment necessary.
- 2 PDG 4% (245 ft/NM) or more until crossing 6.5 DME outbound DRN due to airspace structure.
- 3 If unable to comply request ALTN route by ATC.
- 4 Not to be filed in flight plan. Advised by ATC only.
- 5 PDG 4.5% (275 ft/NM) or more until crossing 4.5 DME outbound DRN due to airspace structure.
- 6 Only for flights planned to continue via (U)P96-OKX.
- 7 PDG 5.8% (350 ft/NM) or more until crossing 4.5 DME outbound DRN due to airspace structure.

Initial climb clearance 5000'

RUNWAY 04

SID	ROUTING	GPS/FMS RNAV
ABKIS 1E	Direct FS (D5.2 DND), RT, on radial 312 HDO to ETESI, RT, on track 222° to DC042, RT, on track 248° to ABKIS. Cross ETESI at 4500' or above.	(1200'+) - <u>FS</u> - DC041 - ETESI (4500'+) - DC042 - ABKIS
BEBEX 5E	On track 039° inbound FS to D4.4 DND, LT, on track 352° FS to D10.0 DND, LT, on track 273° to BEBEX. Cross D10.0 DND at 3800' or above.	(1200'+) - FS - RODKO (3800'+) - BEBEX
DEKOV 3E	Direct FS (D5.2 DND), RT, on radial 312 HDO to ETESI, RT, on track 164° to DEKOV. Cross ETESI at 4500' or above.	(1200'+) - <u>FS</u> - DC041 - ETESI (4500'+) - DEKOV
HDO 6E	Direct FS (D5.2 DND), RT, on radial 312 HDO to HDO.	(1200'+) - <u>FS</u> - DC041 - HDO
KOBUS 7E	Direct FS (D5.2 DND), LT, on track 031° FS to D19.1 DND, RT, to intercept radial 037 DRN, on radial 037 DRN to KOBUS.	(1200'+) - <u>FS</u> - DC044 - KOBUS
LALUK 3E	Direct FS (D5.2 DND), RT, on radial 312 HDO to ETESI, RT, on track 212° to LALUK. Cross ETESI at 4500' or above.	(1200'+) - <u>FS</u> - DC041 - ETESI (4500'+) - LALUK
MAREM 5E	Direct FS (D5.2 DND), RT, on radial 312 HDO to ETESI, RT, on track 222° to MAREM. Cross ETESI at 4500' or above.	(1200'+) - <u>FS</u> - DC041 - ETESI (4500'+) - MAREM
OSKAN 7E	On track 039° inbound FS to D4.4 DND, LT, on track 352° FS to D10.7 DND, LT, on track 316° to OSKAN. Cross D10.7 DND at 3800' or above.	(1200'+) - FS - RODKO (3800'+) - OSKAN

RUNWAY 22

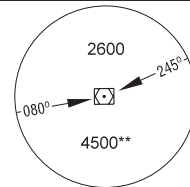
SID	ROUTING	GPS/FMS RNAV
ABKIS 1W	On radial 040 DRN to DRN, on radial 220 DRN to ABKIS	(1200'+) - DRN - ABKIS
BEBEX 5W	On radial 040 DRN to D2.6 DRN, RT, on radial 321 DRN to BEBEX.	(1200'+) - <u>DC226</u> - DC224 - BEBEX
DEKOV 4W	On radial 040 DRN to D2.6 DRN, LT, on radial 104 DRN to DEKOV. Cross D6.5 outbound DRN at 4000' or above.	(1200'+) - <u>DC226</u> - DC225 - DC229 (4000'+) - DEKOV
HDO 8W	On radial 040 DRN to D2.6 DRN, LT, on radial 104 DRN to D6.5 DRN, LT, on radial 276 HDO to HDO. Cross D6.5 outbound DRN at 4000' or above.	(1200'+) - <u>DC226</u> - DC225 - DC229 (4000'+) - HDO
KOBUS 8W	On radial 040 DRN to D2.6 DRN, RT, on radial 321 DRN to D13.0 DRN, RT, on track 031° to OSKAN, RT, on track 080° to KOBUS.	(1200'+) - <u>DC226</u> - DC224 - DC232 - OSKAN - KOBUS
LALUK 2W	On radial 040 DRN to D2.6 DRN, LT, on radial 138 DRN to LALUK. Cross D2.6 outbound DRN at 4400' or above.	(1200'+) - <u>DC226</u> - DC230 (4400'+) - LALUK
MAREM 3W	On radial 040 DRN to D1.0 DRN, LT, on radial 174 DRN to MAREM. Cross D4.5 outbound DRN at 4300' or above.	(1200'+) - DRN - DC231 (4300'+) - MAREM
OSKAN 1D	On radial 040 DRN to D2.6 DRN, RT, on radial 321 DRN to D13.0 DRN, RT, on track 031° to OSKAN.	(1200'+) - <u>DC226</u> - DC224 - DC232 - OSKAN
OSKAN 5W	On radial 040 DRN to D7.0 DRN, RT, on radial 004 DRN to EPILA, LT, on track 357° to OSKAN. Cross EPILA at 3100' or above.	(1200'+) - <u>DC221</u> - DC222 - EPILA (3100' +) - OSKAN

Sample: DC226 fly-over waypoint

MÜNCHEN RADAR 125.620 126.170
131.020 129.100

TOWER 122.920
GROUND 121.970
APRON 121.750
ATIS 118.870

Mag. Variation 2° E
Elevation 754'
Transition altitude 5000'
Transition level by ATC



MSA 25 NM
DRN DVORDME*

* German Territory only
** 10 NM 3100

OSKAN THREE ALFA (OSKAN 3A)①
RWY 22 ARRIVALS

OSKAN THREE BRAVO (OSKAN 3B)
RWY 04 ARRIVALS

OSKAN
N51 27.7
E013 37.7

① BRNAV equipment necessary.

(Clearance limit Rwy 04)
(IAF Rwy 22)
GARKI
N51 23.1 E014 07.0

OSKAN 3A ①
4000
(5000)

D27
180°
102°
27
OSKAN 3B
4000
(5000)

NOT TO SCALE



RWY 04

Clearance limit GARKI:
Expect radar vectoring to final.
In case of radio communication
failure maintain last cleared FL
and proceed to DRN.
Descend in holding pattern to 5000
for standard instrument approach.

(IAF)
DRESDEN
D 114.35 DRN
N51 00.9 E013 35.9



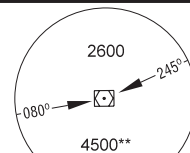
SPEED RESTRICTION
MAX 250 KT below FL100 or as by ATC.

Bearings and tracks
are magnetic
Altitudes in feet MSL
Altitudes in brackets
are operational

MÜNCHEN RADAR 125.620 126.170
131.020 129.100

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APRON 121.750
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Transition altitude 5000'
Transition level by ATC



MSA 25 NM
DRN DVORDME*

* German Territory only
** 10 NM 3100

**ABKIS 04, GARKI 04
HDO 04, OSKAN 04
RIVSA 04
RWY 04 RNAV APPROACH
TRANSITIONS**

GPS- OR FMS-EQUIPPED AIRCRAFT; USE OF
RNAV TRANSITION ONLY WHEN CLEARED BY ATC

GPS/FMS CLEARANCE PHRASEOLOGY

- "Cleared xxx Transition":**
Authorization to fly the lateral part of a GPS/FMS routing, including assigned speeds. Altitudes will be issued by ATC.
- "Cleared xxx Transition and Profile":**
Authorization to fly the GPS/FMS routing including assigned speeds and altitudes.
- "Cleared direct to Waypoint xxx":**
Authorization to fly from the present position to one waypoint or combination of waypoints, including the continuation of the lateral part adjoining the last waypoint, including assigned speeds. Altitudes will be issued by ATC.

When reaching clearance limit OSKAN
proceed to RIVSA and hold.
Expect GPS/FMS transition or radar
vectoring to final.

**CLEARANCE
LIMIT
OSKAN**
N51 27.7 E013 37.7

**CLEARANCE
LIMIT
GARKI**
N51 23.1 E014 07.0

EPILA
N51 11.6 E013 37.9
11 DME DRN
At or above
FL80

DC423
N51 09.7 E013 35.3
DC422
N51 03.9 E013 27.4
DC421
N51 00.9 E013 23.3
DC420
N50 57.9 E013 19.2
DC429
N51 03.8 E013 12.7
At or above
5000'

**CLEARANCE
LIMIT
RIVSA**
N51 06.5 E013 22.0
10 DME DRN

DRESDEN
D 114.35 DRN
N51 00.9 E013 35.9

**(FAF)
GOMPA**
N50 59.9 E013 34.9
At or above
4000'

DC457
N51 15.7 E014 09.9
DC456
N51 12.7 E014 05.8
DC455
N51 09.7 E014 01.6
DC453
N51 01.5 E013 50.2
At or above
FL80

**CLEARANCE
LIMIT
HERMSDORF**
D 115.00 HDO
N50 55.7 E014 22.1

When reaching clearance limit HDO
proceed to GARKI and hold.
Expect GPS/FMS transition or radar
vectoring to final.

NOT TO SCALE

SPEED RESTRICTION
MAX 250 KT below FL100
or as by ATC

DC428
N50 46.0 E013 06.3
At or below
FL90

**CLEARANCE
LIMIT
ABKIS**
N50 37.8 E013 03.4
31 DME DRN R-219

DC428
N50 46.0 E013 06.3
ABKIS 04
8.4
219°
039°
7000'

TRANSITION	ROUTING
ABKIS 04	ABKIS - DC428 (FL90 -) - DC429 (5000' +) - RIVSA (5000' +) - DC422 (5000' +) - DC420 (5000' +) - DC430 (4000' +) - GOMPA (4000' +)
GARKI 04	GARKI - DC457 - DC453 (FL80 +) - DC450 (5000' +) - DC430 (4000' +) - GOMPA (4000' +).
HDO 04	HDO - DC453 (FL80+) - DC450 (5000'+) - DC430 (4000' +) - GOMPA (4000' +).
OSKAN 04	OSKAN - EPILA (FL80 +) - DC420 (5000' +) - DC430 (4000' +) - GOMPA (4000' +).
RIVSA 04	RIVSA - DC422 - DC420 (5000' +) - DC430 (4000' +) - GOMPA (4000' +).

MÜNCHEN RADAR

125.620 126.170
131.020 129.100

TOWER **122.920**
GROUND **121.970**
APRON **121.750**
ATIS **118.870**

Mag. Variation **2° E**
Elevation **754'**
Transition altitude **5000'**
Transition level **by ATC**

ABKIS 22, GARKI 22, HDO 22
OSKAN 22, RIVSA 22
RWY 22 RNAV APPROACH TRANSITIONS

GPS- OR FMS-EQUIPPED AIRCRAFT; USE OF
RNAV TRANSITION ONLY WHEN CLEARED BY ATC

SPEED RESTRICTION
MAX 250 KT below FL100
or as by ATC

MSA 25 NM
DRN DVORDME*

* German Territory only
** 10 NM 3100

When reaching clearance limit OSKAN
proceed to GARKI and hold.
Expect GPS/FMS transition or radar
vectoring to final.

NOT TO SCALE

GPS/FMS CLEARANCE PHRASEOLOGY

- "Cleared xxx Transition":**
Authorization to fly the lateral part of a GPS/FMS routing, including assigned speeds. Altitudes will be issued by ATC.
- "Cleared xxx Transition and Profile":**
Authorization to fly the GPS/FMS routing including assigned speeds and altitudes.
- "Cleared direct to Waypoint xxx":**
Authorization to fly from the present position to one waypoint or combination of waypoints, including the continuation of the lateral part adjoining the last waypoint, including assigned speeds. Altitudes will be issued by ATC.

TRANSITION	ROUTING
ABKIS 22	ABKIS - DC450 - DC454 (FL80+) - DC457 - DC437 (4000'+) - DC436 (3000'+) - OKILO (3000'+).
GARKI 22	GARKI - DC437 (4000'+) - DC436 (3000'+) - OKILO (3000'+).
HDO 22	HDO - DC460 - DC454 (FL80+) - DC457 - DC437 (4000'+) - DC436 (3000'+) - OKILO (3000'+).
OSKAN 22	OSKAN - DC410 - EPILA (FL80+) - DC427 - DC437 (4000'+) - DC436 (3000'+) - OKILO (3000'+).
RIVSA 22	RIVSA - EPILA (FL80+) - DC427 - DC437 (4000'+) - DC436 (3000'+) - OKILO (3000'+).

MÜNCHEN RADAR

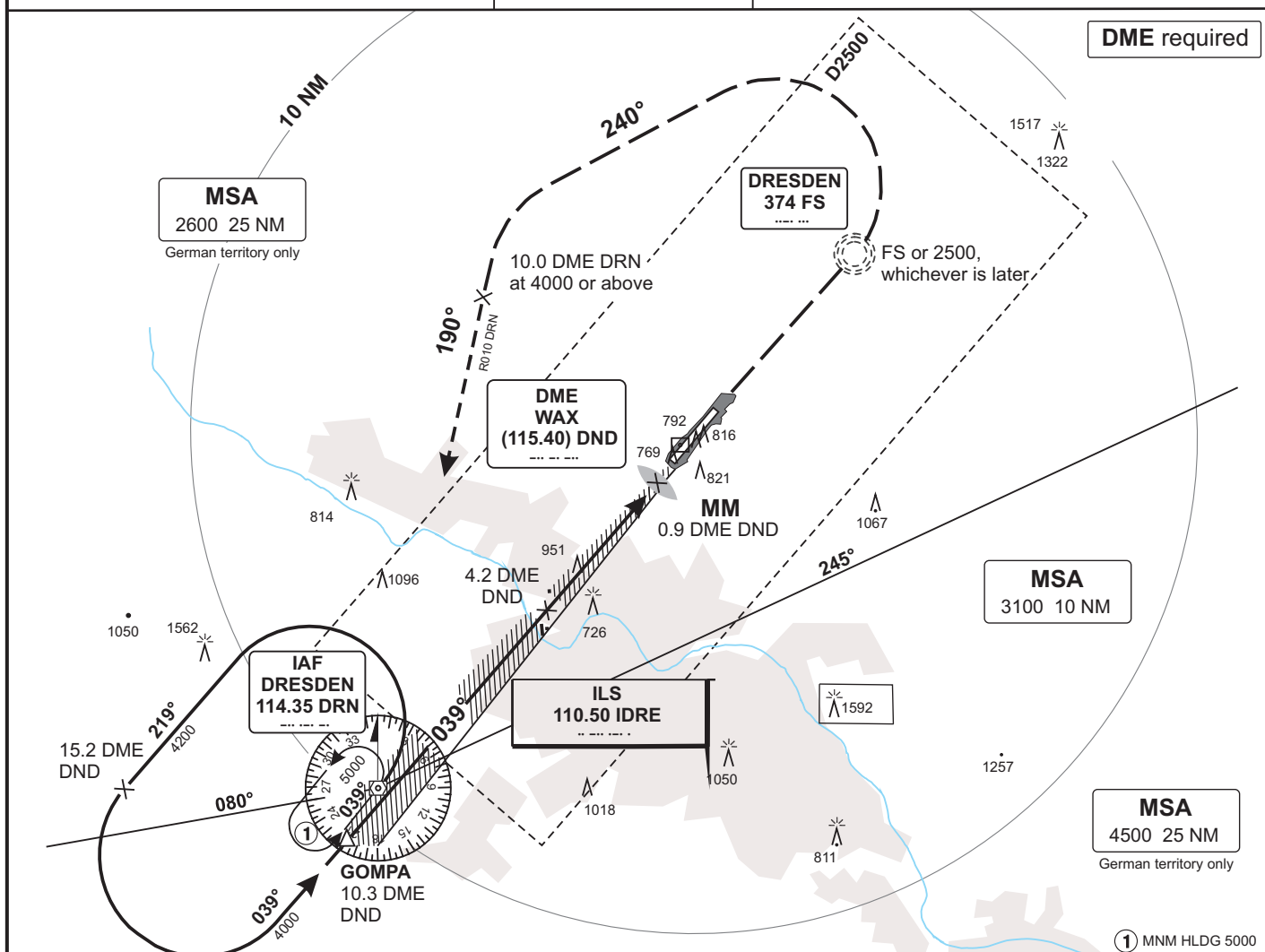
125.620 126.170
131.020 129.100

TOWER
GROUND
APRON
ATIS

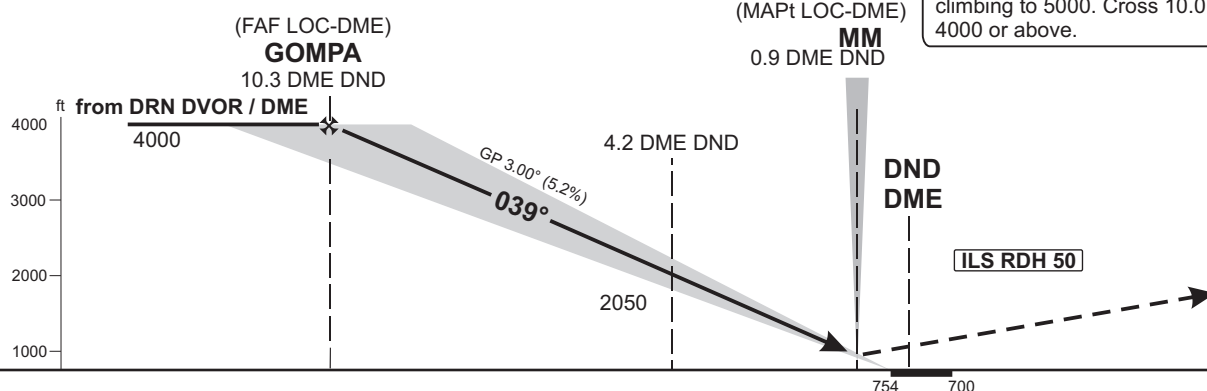
122.920
121.970
121.750
118.870

Mag. Variation 2° E
Elevation 754'
Transition altitude 5000'
Transition level by ATC

DME required

**Missed Approach Procedure**

Climb straight ahead to FS NDB or 2500, whichever is later, LT on track 240° to intercept R010 DRN to DRN DVOR/DME, climbing to 5000. Cross 10.0 DME DRN at 4000 or above.



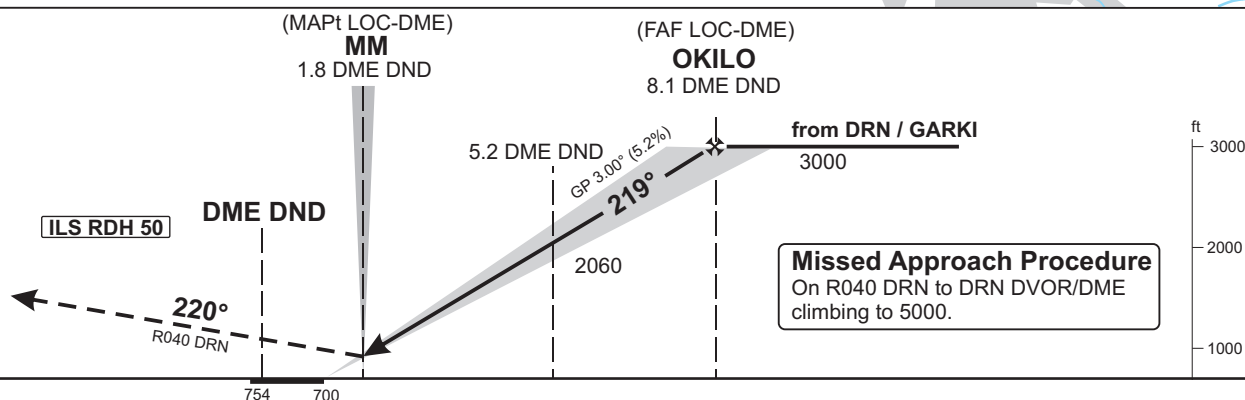
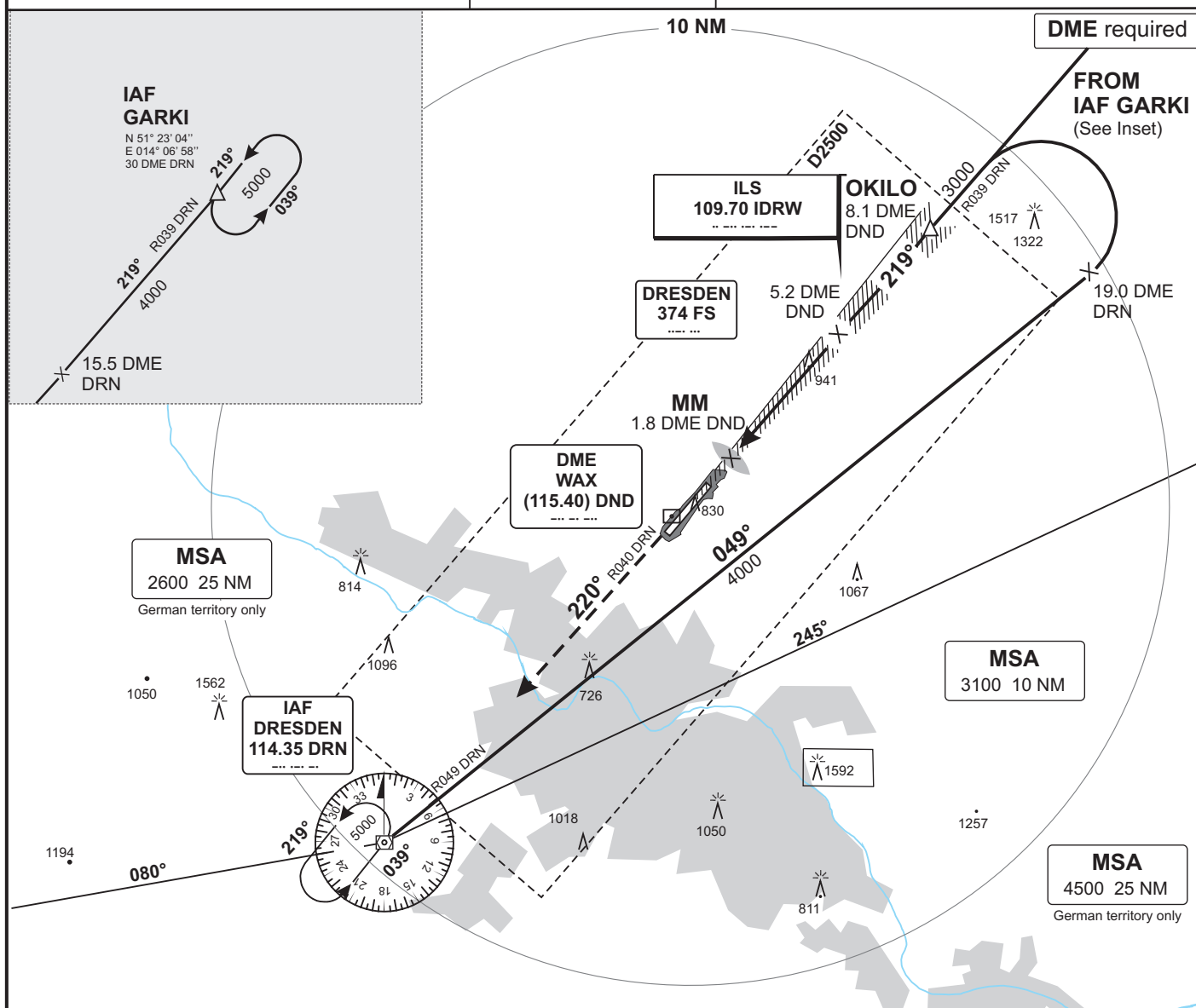
OCA (OCH)	A	B	C	D	D _L
ILS CAT I	898 (144)	908 (154)	918 (164)	928 (174)	
LOC-DME	1200 (450)	1200 (450)	1200 (450)	1200 (450)	
CIRCLING	1230	1250	1460	1460	

DME DND	10	9	8	7	6	5	4	3	2
DIST THR	9.7	8.7	7.7	6.7	5.7	4.7	3.7	2.7	1.7
ALTITUDE	3900	3580	3260	2940	2620	2310	1990	1670	1350
LOC - DME: Timing not authorized for defining the MAPt.									
GS	kt	80	100	120	140	160	180		
4.2 DME DND - THR (3.9 NM)	MIN:SEC	2:56	2:20	1:57	1:40	1:28	1:18		
Rate of descent (5.2%)	ft/MIN	420	530	640	740	850	960		

MÜNCHEN RADAR	125.620	126.170
	131.020	129.100

TOWER	122.920
GROUND	121.970
APRON	121.750
ATIS	118.870

Mag. Variation	2° E
Elevation	754'
Transition altitude	5000'
Transition level	by ATC



OCA (OCH)	A	B	C	D	D _L
ILS CAT I	846 (146)	856 (156)	866 (166)	876 (176)	
ILS CAT II	757 (57)	773 (73)	787 (87)	800 (100)	
LOC-DME	1230 (530)	1230 (530)	1230 (530)	1230 (530)	
CIRCLING	1230	1250	1460	1460	

DME DND	2	3	4	5	6	7	8	
DIST THR	0.9	1.9	2.9	3.9	4.9	5.9	6.9	
ALTITUDE	1040	1360	1680	2000	2320	2630	2950	
LOC - DME: Timing not authorized for defining the MAPt.								
GS	kt	80	100	120	140	160	180	
5.2 DME DND - THR (4.1 NM)	MIN:SEC	3:05	2:28	2:03	1:45	1:32	1:22	
Rate of descent (5.2%)	ft/MIN	420	530	640	740	850	960	

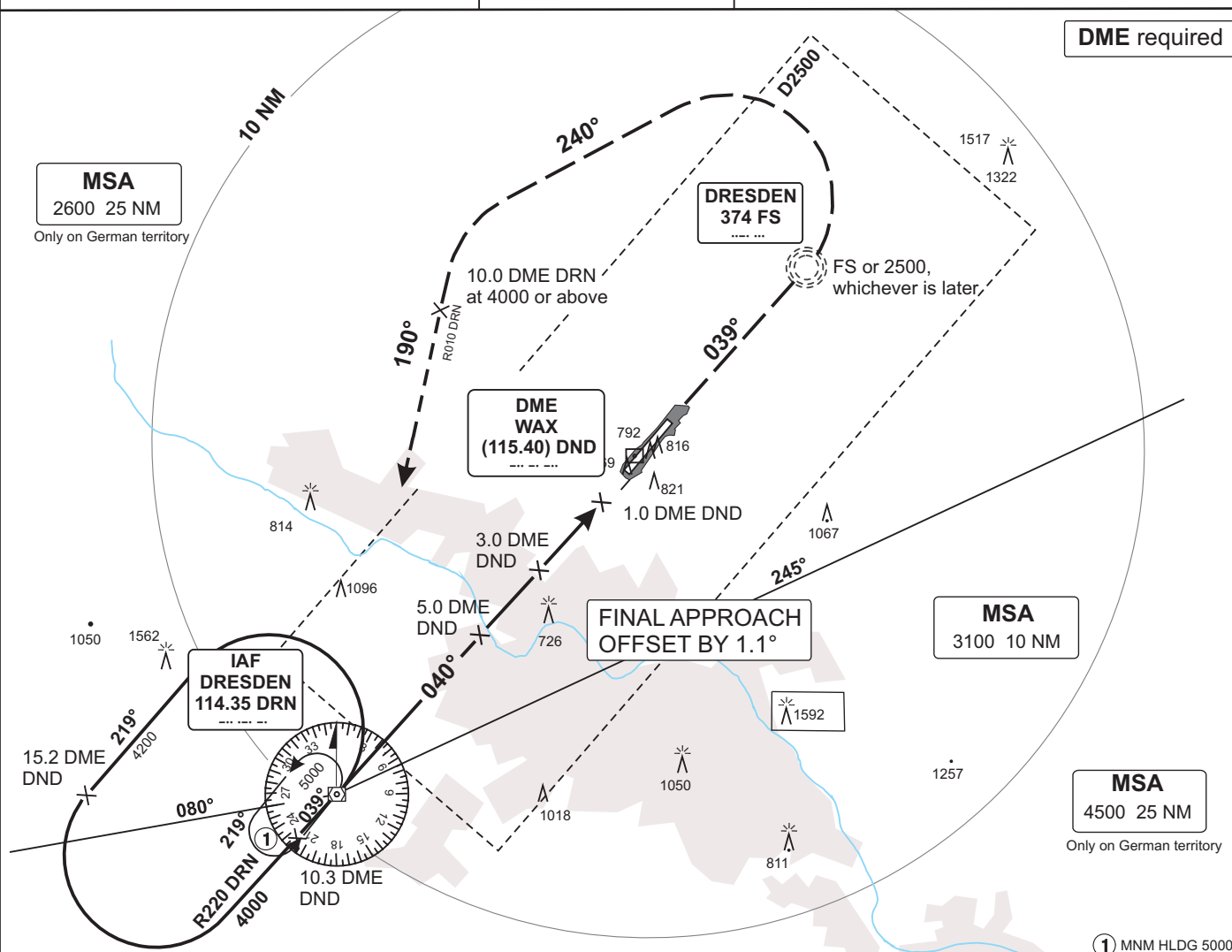
CAT IIIA & CAT IIIB (MNM RVR 75 m) approved.

MÜNCHEN RADAR 125.620 126.170
131.020 129.100

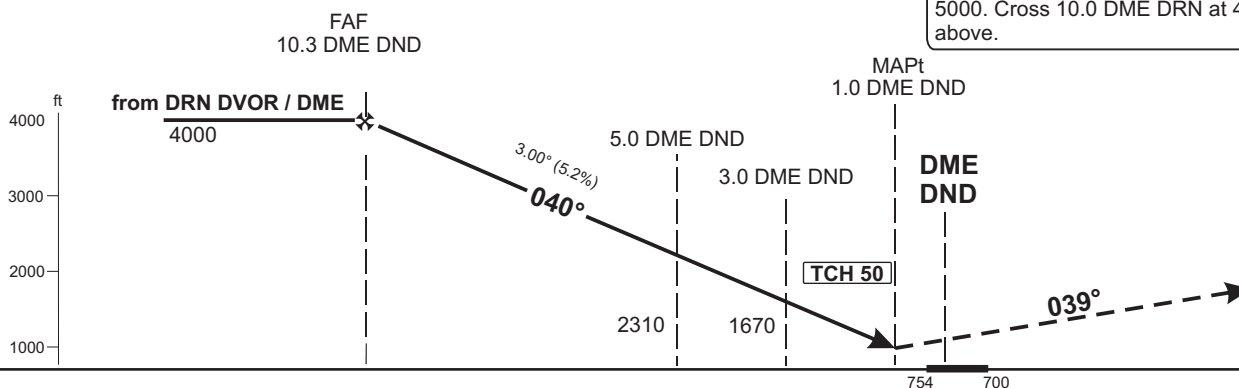
TOWER 122.920
GROUND 121.970
APRON 121.750
ATIS 118.870

Mag. Variation 2° E
Elevation 754'
Transition altitude 5000'
Transition level by ATC

DME required

**Missed Approach Procedure**

On track 039° to FS NDB or 2500, whichever is later, LT, on track 240° to intercept R010 DRN to DRN DVOR/DME, climbing to 5000. Cross 10.0 DME DRN at 4000 or above.



OCA (OCH)	A	B	C	D
VOR-DME	1200 (440)	1200 (440)	1200 (440)	1200 (440)
CIRCLING	1230	1250	1460	1460

DME DND	10	9	8	7	6	5	4	3	2
DIST THR	9.7	8.7	7.7	6.7	5.7	4.7	3.7	2.7	1.7
ALTITUDE	3900	3580	3260	2940	2620	2310	1990	1670	1350

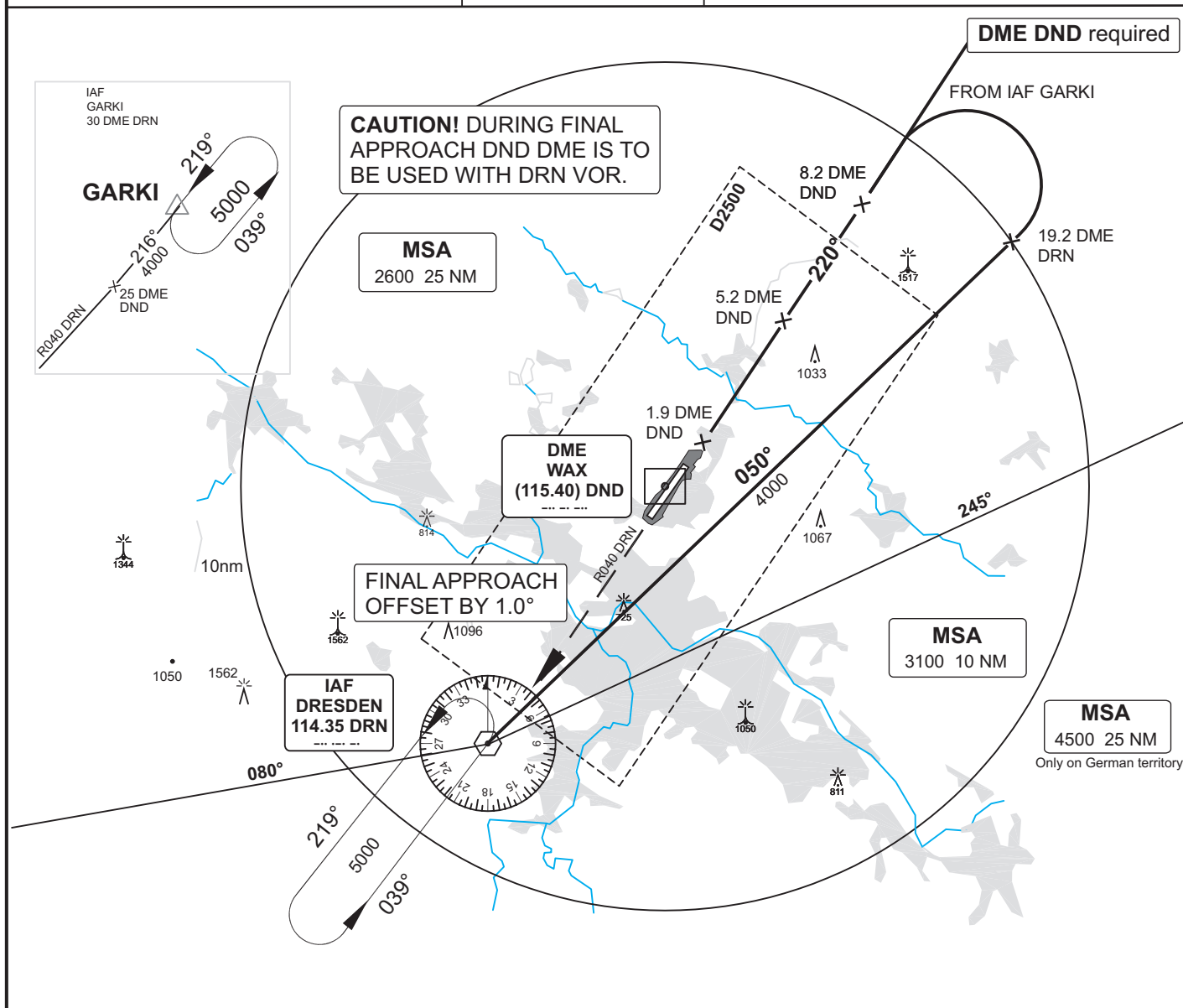
Timing not authorized for defining the MAPt.

GS	kt	80	100	120	140	160	180
3.0 DME DND-1.0 DME DND (2.0 NM)	MIN:SEC	1:30	1:12	1:00	0:51	0:45	0:40
Rate of descent (5.2%)	ft/MIN	420	530	640	740	850	960

MÜNCHEN RADAR 125.620 126.170
131.020 129.100

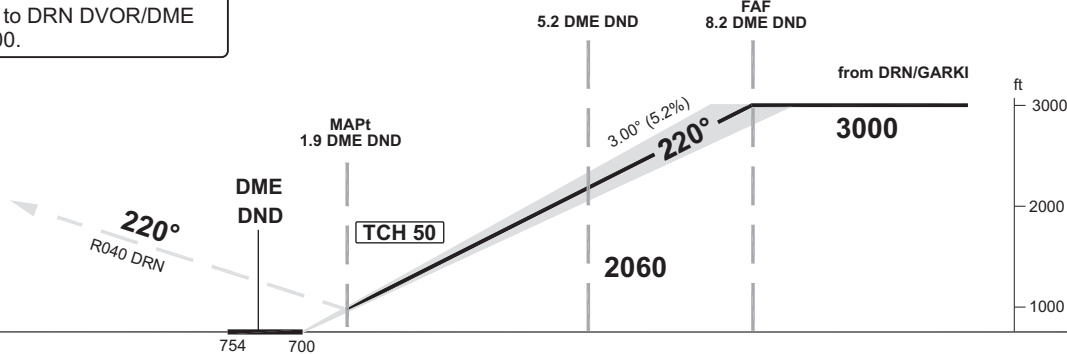
TOWER 122.920
GROUND 121.970
APRON 121.750
ATIS 118.870

Mag. Variation 2° E
Elevation 754'
Transition altitude 5000'
Transition level by ATC



Missed Approach Procedure
On R040 DRN to DRN DVOR/DME
climbing to 5000.

DRN
VOR/DME



OCA (OCH)	A	B	C	D	
VOR-DME	1280 (580)	1280 (580)	1280 (580)	1280 (580)	
CIRCLING	1230	1250	1460	1460	

DME DND	3	4	5	6	7	8	
DIST THR	1.9	2.9	3.9	4.9	5.9	6.9	
ALTITUDE	1360	1680	2000	2320	2630	2950	

LOC - DME: Timing not authorized for defining the MAPt.

GS	kt	80	100	120	140	160	180
5.2 DME DND - MAPt (3.3 NM)	MIN:SEC	2:29	1:59	1:39	1:25	1:14	1:06
Rate of descent (5.2%)	ft/MIN	420	530	640	740	850	960

Valid for flight simulation use only - do not use for real life navigation