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Revision Letter For Cycle 11-2024

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General Information

Location: FRANKFURT/MAIN DEU
ICAO/IATA: EDDF / FRA
Lat/Long: N50° 02.00', E008° 34.23'
Elevation: 363 ft

Airport Use: Public
Daylight Savings: Observed
UTC Conversion: -1:00 = UTC
Magnetic Variation: 3.0° E

Fuel Types: Jet A-1
Repair Types: Minor Airframe, Minor Engine
Customs: Yes
Airport Type: IFR
Landing Fee: Yes
Control Tower: Yes
Jet Start Unit: Yes
LLWS Alert: No
Beacon: Yes

Sunrise: 0321 Z
Sunset: 1926 Z

Runway Information

Runway: 07C
Length x Width: 13123 ft x 197 ft
Surface Type: asphalt
TDZ-Elev: 328 ft
Lighting: Edge, ALS, Centerline, TDZ

Runway: 07L
Length x Width: 9186 ft x 148 ft
Surface Type: concrete
TDZ-Elev: 304 ft
Lighting: Edge, ALS, Centerline, TDZ

Runway: 07R
Length x Width: 13123 ft x 148 ft
Surface Type: asphalt
TDZ-Elev: 327 ft
Lighting: Edge, ALS, Centerline, TDZ

Runway: 18
Length x Width: 13123 ft x 148 ft
Surface Type: concrete
TDZ-Elev: 325 ft
Lighting: Edge, Centerline

Runway: 25C
Length x Width: 13123 ft x 197 ft
Surface Type: asphalt
TDZ-Elev: 363 ft
Lighting: Edge, ALS, Centerline, TDZ

Runway: 25L
Length x Width: 13123 ft x 148 ft
Surface Type: asphalt
TDZ-Elev: 361 ft
Lighting: Edge, ALS, Centerline, TDZ

Runway: 25R
Length x Width: 9186 ft x 148 ft
Surface Type: concrete
TDZ-Elev: 351 ft
Lighting: Edge, ALS, Centerline, TDZ

Communication Information

ATIS: 118.030 Arrival Service
ATIS: 118.730 Departure Service
Frankfurt Tower: 127.330 Secondary
Frankfurt Tower: 118.780
Frankfurt Tower: 119.905
Frankfurt Tower: 124.855
Frankfurt Tower: 136.500
Frankfurt Ground: 121.805
Frankfurt Apron Ramp/Taxi: 121.655
Frankfurt Apron Ramp/Taxi: 121.705
Frankfurt Apron Ramp/Taxi: 121.755
Frankfurt Apron Ramp/Taxi: 121.855
Frankfurt Apron Ramp/Taxi: 121.955
Frankfurt Apron Ramp/Taxi: 121.965
Frankfurt Delivery Clearance Delivery: 122.035
Langen Radar Approach: 126.555 RCO
Langen Radar Approach: 125.355 RCO
Langen Radar Approach: 120.155 RCO
Langen Radar Approach: 119.030 Secondary RCO
Langen Radar Approach: 136.130 RCO
Langen Radar Approach: 120.805 RCO
Frankfurt Deicing Operations: 121.985
Frankfurt Direct (Approach Control Radar): 118.505
Frankfurt Direct (Approach Control Radar): 127.280
Frankfurt Rescue Emergency: 121.555

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AIRPORT BRIEFING

1. GENERAL

1.1. ATIS

*D-ATIS Arrival 118.030
*D-ATIS Departure 118.730

1.2. NOISE ABATEMENT PROCEDURES

1.2.1. RWY USAGE

1.2.1.1. ARRIVALS/DEPARTURES

RWY 25 will preferably be assigned to landing ACFT, provided the tailwind component does not exceed 5 KT. However, the take-off and landing direction will be changed from RWY 25 to RWY 07 if the braking action on the RWYs is impaired by water, snow, slush, ice, or frost, etc., even if the tailwind component is less than 5 KT. The take-off and landing direction also depends on the availability of navigation aids or significant weather in the approach and departure area.

1.2.1.2. DEPARTURES

Preferred take-off direction for landing direction 25/18:

For departures to the Northwest (OBOKA), North (MARUN) and Northeast (TOBAK), RWY 25C is preferred.

For departures to the Southwest (SOBRA, ULKIG), South (ANEKI), Southeast (CINDY) and East (SULUS), RWY 18 is preferred, provided the tailwind component for RWY 18 is not greater than 15 KT.

Preferred take-off direction for landing direction 07/18:

For departures to the Northwest (OBOKA), North (MARUN), Northeast (TOBAK) and East (KOMIB, SULUS), RWY 07C is preferred.

For departures to the Southwest (SOBRA, ULKIG), South (ANEKI) and Southeast (CINDY), RWY 18 is preferred, provided the tailwind component for RWY 18 is not greater than 15 KT.

Exceptions are possible if required due to traffic safety, the availability of navigation aids, significant weather in the approach and departure area or noise abatement measures or if Aerodrome Control deems that the traffic situation permits.

Tailwind component RWY 18:

If the tailwind component for RWY 18 exceeds 10 KT, this will be broadcast by ATIS.

Pilots unable to accept the greater tailwind component are requested to advise ATC as early as possible - at the latest when they request start-up approval.

Warning: In cases of strong winds, wind shear and increased turbulence must be expected on RWY 18.

1.2.2. NIGHT FLYING RESTRICTIONS AND OPERATIONAL RESTRICTIONS OUTSIDE NIGHTTIME HOURS FOR CIVIL AVIATION

- a) Landing RWY Northwest (07L/25R) may only be used by ACFT up to and including code letter E in compliance with ICAO categorization. Airplanes with code letter F in compliance with categorization according to ICAO Attachment 14, jet airplanes, which cannot be classified into the airplane groups up to and including S 6.3 in compliance with the instructions for calculating noise protection zones as well as airplanes of the type MD11 may not use landing RWY Northwest (07L/25R). Take-offs of ACFT are not permitted from landing RWY Northwest (07L/25R).
- b) ACFT without a noise certification in accordance with ICAO Annex 16 are not permitted to take-off from or land on the whole RWY system of Frankfurt/Main APT during the entire hours of operation of Frankfurt/Main APT.

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AIRPORT BRIEFING

1. GENERAL

- c) ACFT that merely meet the noise certification values in accordance with ICAO Annex 16, Volume I, Part II, Chapter 2 are not permitted to take-off from or land on the whole RWY system of Frankfurt/Main APT during the entire hours of operation of Frankfurt/Main APT unless - documented by a certificate according to Article 11c, paragraph 7 of the German Aviation Regulation (LuftVO) - the Federal Aviation Office (LBA) has granted an exemption for the ACFT concerned according to Article 11c, paragraphs 4 - 6 of the LuftVO or a Member State of the European Union has granted an exemption in accordance with Article 11c, paragraph 8 of the LuftVO.

- d) The following operational provisions apply to ACFT that are marginally compliant with ICAO Annex 16, Volume 1, Part II, Chapter 3 within the meaning of Article 48a no. 4 of the Regulation on the Certification and Licensing in Aviation (LuftVZO):

Take-offs and landings are not permitted on all days of the week between 2000-0800LT, unless an exemption in accordance with Article 48f, paragraph 1 of the LuftVZO or an individual exemption in accordance with paragraph 2 of the regulation has been granted.

From the beginning of the winter 2011/2012 scheduling period, take-offs and landings are not permitted between Friday, 2000LT and Monday, 0800LT, unless they have been granted an exemption in accordance with Article 48f, paragraph 1 of the LuftVZO or an individual exemption in accordance with paragraph 2 of the regulation.

ACFT arriving late or early whose landing is planned by the APT coordinator for a slot outside the operational restrictions up to 2000LT or from 0800LT may land until 2200LT and from 0600LT, provided that the late or early arrival was not envisaged as such in the flight plan (Article 25 LuftVO).

- e) Following the opening of the landing RWY Northwest, from the first day of the new scheduling period, which - because of the added capacity of the landing RWY Northwest - provides an increase in the coordinated hourly RWY capacity, take-offs and landings are not permitted on the whole RWY system of Frankfurt/Main APT between 2200-0600LT on all days of the week, unless otherwise provided.

Between 2200-2300LT as well as between 0500-0600LT, only such ACFT are permitted to take off and land that - have a noise certification value in accordance with ICAO Annex 16, Volume I, Part II, Chapter 4 and whose take-off or landing has been coordinated by the APT coordinator of the Federal Republic of Germany at least one day in advance.

Between 2300-0500LT scheduled ACFT movements are not permitted.

The following regulations apply to ACFT arriving late or early:

- ACFT that are not only marginally compliant with ICAO Annex 16, Volume I, Part III, Chapter 3 within the meaning of Article 48a of the LuftVZO, and ACFT fulfilling the provisions of ICAO Annex 16, Volume 1, Part II, Chapter 4 and whose landing is planned by the APT coordinator for a slot up to 2200LT or from 0600LT, are permitted to land until 2400LT and/or from 0500LT without being counted against the quota as well as the maximum limit, provided that the late or early arrival was not envisaged as such in the flight plan (Article 25 of the LuftVO).
- ACFT fulfilling the provisions of ICAO Annex 16, Volume I, Part II, Chapter 4 and whose landing is planned by the APT coordinator for a slot between 2200-2300LT and between 0500-0600LT under the conditions set out, are permitted to land until 2400LT without being counted against the maximum limit provided that the late arrival was not envisaged as such in the flight plan (Article 25 of the LuftVO).

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1. GENERAL

Early arrivals before 0500LT are not permitted.

ACFT are not permitted to use the landing RWY Northwest between 2300-0500LT. At Frankfurt/Main APT, take-offs and landings of ACFT conducting flight checks of radio, radar or APT facilities are permitted between 2200-0600LT only if the ACFT meet the provisions of ICAO Annex 16, Volume I, Part II, Chapter 4 and if it is absolutely necessary to conduct these checks during this period of time.

Propeller ACFT with a maximum take-off mass of less than 9,000kg may take-off and land between 2200-0600LT only under the restrictions outlined in sections above; instead of the mentioned noise certification values they must at least fulfill the higher sound-proofing requirements defined in Article 4 of the Airfield Noise Abatement Ordinance (Landeplatz-LaermschutzV) of 5 January 1999 (Federal Law Gazette I, page 35; German-language publication Nfl I 134/99).

- f) Delayed take-offs to be conducted in a period of restricted operations by an ACFT subject to the restrictions require individual permission by the local aviation supervision office. Permission may only be granted if the delay is due to reasons beyond the control of the air carrier concerned. Delayed take-offs are not permitted between 2400-0500LT.

EXCEPTIONS

Excluded from the restrictions mentioned above are:

- Landings of ACFT approaching Frankfurt/Main APT as an alternate aerodrome for meteorological, technical or other safety reasons as well as take-offs and landings of ACFT rendering medical assistance or on missions in disasters, as well as evacuation flights;
- Flights conducted particularly in the public interest.

Apart from this, the approving authority may grant exemptions from the operational restrictions only upon application in cases of particular hardship. It is not a case of particular hardship if the operational restriction makes the air carrier's ACFT turn-around planning more difficult or requires arrangements for passenger transfer or accommodation. Processing of applications is subject to charges.

As a rule, the application shall be submitted in writing - in urgent cases also via telephone - to:

Hessisches Ministerium fuer Wirtschaft, Energie,
Verkehr und Wohnen
Oertliche Luftaufsichtsstelle/local Aviation Supervision Office
Gebaeude (building) 514
60547 Frankfurt am Main/Germany
Tel.: 069/690-71717
Fax: 069/690-66150

The application shall contain:

- Applicant's name and, if necessary, name of the handling partner;
- Applicant's telephone and fax numbers;
- Name and address of the air carrier;
- E-mail address of the applicant for the invoice;
- Flight number;
- Registration and type of ACFT;
- Classification of the ACFT according to noise certification level (noise certificate of the ACFT according to Section 11c LuftVO);
- Planned time of departure for which the exemption is requested;
- Number of passengers;
- Weight of cargo in tonnes.

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1. GENERAL

The reasons for the application shall be specified; the applicant shall state, in particular, to what extent the take-off delay is due to reasons beyond the control of the airline and/or where the hardship lies.

Take-off or landing clearances granted by ATC as well as other clearances do not automatically include the necessary exemption by the approval authority.

ATC will not grant exemptions via radiotelephony.

The pilot-in-command (PIC) shall report any landing conducted during a period of restricted operations by an ACFT subject to the restriction which does not meet any of the grounds for exemption according to the provisions to the local aviation supervision office immediately after landing and specify the reasons (declaration of PIC).

1.2.3. REVERSE THRUST

On the entire RWY system of Frankfurt Main APT, reverse thrust may only be used in the idle reverse thrust mode. Exceptions are unavoidable cases for safety reasons, e.g. because of the comparatively shorter LDA on RWY 25R/07L.

1.2.4. RUN-UP TESTS

Engine run-ups with thrust settings above an idle power setting may only be conducted at the following positions:

- On the apron of hangar 5 and in the run-up enclosure in the time between 0600-2200LT;
- In the time between 2200-0600LT, engine run-ups with the thrust setting on part-load on the apron of hangar 5, whereby on the position hangar 5 west the maximum power setting may only be taken to part-load low (up to 50% N1), as well as in the run-up enclosure; engine run-ups with the thrust setting on full-load may only be conducted in the run-up enclosure.

Engine run-ups shall be conducted in such a way that their duration of exposure on the next built-up area shall not, on average, result in a continuous sound level higher than 57 dB(A) during the day and 50 dB(A) during the night.

Engine run-ups in the time between 2200-0600LT with a thrust setting above an idle power setting shall be notified to the local aviation supervision office.

Engine test runs and run-ups as well as extensive maintenance work on ACFT at the positions are not permitted. Apron control may grant exceptions in justified cases.

1.3. LOW VISIBILITY PROCEDURES

1.3.1. CAT III OPERATIONS

1.3.1.1. GENERAL

Whenever the operation of CAT III low visibility procedures is announced, taxiing is restricted for all ACFT to TWYs with operating centerline lights, unless otherwise instructed.

The TWY centerline lights within the ILS-critical/sensitive area are color-coded (yellow/green) from RWY 07C/25C to TWYs L and M, from RWY 07R/25L to TWYs M and R, from RWY 07L/25R to TWY P, from RWY 18 from the North to TWY Y5 and from RWY 18 from the South to TWYs L and N. Landing ACFT are requested to report when they are clear of the color-coded TWY centerline lights to indicate that they have vacated the ILS-critical/sensitive area.

In order to facilitate ground movement, centerline lights, several clearance bars and stop bars are installed.

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1. GENERAL

1.3.1.2. CLEARANCE BARS

Clearance bars are operated together with the centerline lighting and consist of three unidirectional surface lights showing YELLOW in the direction of approach to the intersection, arranged at 90° to the TWY centerline and partly displaced laterally to centerline.

If the traffic situation requires, ACFT may be instructed to hold at a specific clearance bar. If no such instruction is given, ACFT may taxi across the clearance bar without a specific clearance.

1.3.1.3. STOP BARS

Stop bars are operated independently of the centerline lighting and consist of unidirectional surface lights showing red in the direction of approach to a taxi-holding position/an intersection, spaced at intervals of 10'/3m across the overall width of a TWY at 90° to the TWY centerline.

Taxiing across an operating stop bar is strictly prohibited.

1.4. SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM

1.4.1. OPERATION OF MODE S TRANSPONDERS

1.4.1.1. GENERAL

An Advanced Surface Movement Guidance and Control System, using Mode S multilateration and Automatic Dependent Surveillance-Broadcast (ADS-B), is in operation.

1.4.1.2. OPERATION OF MODE S TRANSPONDERS WHEN ACFT IS ON GROUND

Pilots shall ensure that Mode S transponders are able to operate when ACFT is on the ground.

Pilots shall select the assigned Mode A code as well as the Mode S call sign and set the transponder to AUTO Mode or ON (eg. XPDR):

- From request for push-back or taxi, whichever is earlier;
- After landing, continuously until ACFT is fully parked on stand;
- When fully parked on stand, select STBY.

For Mode S call sign, flight crew shall use ICAO defined format for entering the ACFT identification (e.g. DLH5MC, AFR6380, SAS589, BAW68PG).

To ensure that performance of systems based on SSR frequencies is not compromised, TCAS shall not be activated before reaching the RWY holding position. After landing, it shall be deselected after vacating RWY.

ACFT taxiing without flight plan shall select Mode A code 2000.

1.5. TAXI PROCEDURES

1.5.1. GENERAL

ACFT are permitted to taxi on the maneuvering area between RWY 07C/25C and TWY L only with the minimum engine revolutions absolutely required.

TWY Y7 (section East of ACFT stand V718) MAX wingspan 79'/24m.

TWYs N blue, N orange, N7 blue, N7 orange, N8 blue, N8 orange, western link between TWYs S33 and S and TWY Y7 (section between TWY Y5 and ACFT stand V718) MAX wingspan 118'/36m.

TWY N South MAX wingspan 171'/52m.

TWY N7 (section North of TWY N) MAX wingspan 213'/65m.

Taxi connection between TWY S33 and TWY S (direction West) MAX wingspan 118'/36m.

On the entire operating area including ACFT hangars and their aprons, taxi maneuvers which do not take place prior to take-off or after landing of an ACFT must be carried out by means of ACFT tractors and not by means of engine power.

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1. GENERAL

1.5.2. TAXIING ON APRON

ACFT stand taxilanes on aprons have been classified as follows:

- L (East of U): EASA code C;
- N (between N3 and N-East): EASA code F;
- N-Blue (between N3 and N-East): EASA code C;
- N-Orange (between N3 and N-East): EASA code C;
- N3 (North of N): EASA code E;
- N5 (North of N): code E/code F (until A23);
- N7 (North of N): EASA code E;
- N8 (North of N): EASA code F;
- N13 (North of N): EASA code E;
- N14 (North of N): EASA code E;
- S4 (South of S): EASA code F;
- S5 (South of S): EASA code F;
- S6 (South of S): EASA code F;
- S7 (South of S): EASA code F;
- S8 (South of S): EASA code F;
- S9 (South of S): EASA code F;
- S11 (South of S): EASA code F;
- S13 (East of S15): EASA code E (up to K4)
- S15: EASA code F (up to K6)
- S16 (South of R): EASA code E;
- S21 (South of R): EASA code E;
- S23 (South of R): EASA code D;
- S23 (GAT): EASA code B.

Reduced wing-tip clearance for ACFT of EASA code A, B and C on ACFT stand taxilanes is minimum 15'/4.5m from obstacles.

Reduced wing-tip clearance for ACFT of EASA code D, E and F on ACFT stand taxilanes is minimum 25'/7.5m from obstacles and is minimum 8'/2.5m from parallel apron roadways or height restricted objects.

ACFT type A380-800 will be towed with reduced obstacle clearance of 16'/5m on TWY N11.

ACFT are permitted to taxi on the apron only at the indispensable minimum engine speed. As a rule, when taxiing (especially in turns), it shall be ensured that the engine power of all engines in operation is as synchronous as possible.

ACFT are not allowed to increase engine power significantly beyond idle speed, especially when taxiing within the apron cul-de-sacs or close to buildings. This particularly applies to the area of turn positions A1, B10 and C2.

When taxiing into parking stands, ACFT shall not stop in turns. If an ACFT comes to a stop, notify Apron Control prior to increasing engine power.

In the General Aviation area the wing-tip clearance is minimum 15'/4.5m.

Adhere strictly to the yellow, blue and orange taxi guidance lines. Adjust taxi speed accordingly.

1.5.3. TAXIING IN CASES OF LOW VISIBILITY

When leaving stand V173B at night and in other low visibility situations, nose gear lights shall generally be switched on. This shall not apply if ACFT is guided by Follow-me car and if the lights dazzle the pilot. In these situations, it is permitted to keep nose gear lights switched off even in cases of low visibility.

1.5.4. FAILURE OF AN ACFT's ANTI-COLLISION LIGHT (BEACON)

Before push-back or entering the apron, the red anti-collision lights (beacon) of an ACFT shall be switched on. If one anti-collision light (beacon) on the ACFT is inoperative, the pilot shall inform apron control and, additionally, switch on the white wing-tip strobe lights.

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1. GENERAL

1.5.5. SEPARATE CENTERLINES FOR ACFT TYPE A380

Stands C15 and C16 have separate centerlines only available for ACFT type A380 designated with C15S and C16S. To park other ACFT types, the centerlines C15 and C16 shall be used. The separate centerlines C15S and C16S are parallel to centerlines C15 and C16. Due to the short distance between the centerlines C15 and C15S as well as between C16 and C16S, the pilot shall pay special attention when taxiing onto the stand.

1.5.6. DEVIATIONS TO EASA REGULATIONS

1.5.6.1. TWYs

Fillets

At numerous TWYs, the distances from the taxi guideline to the TWY side strip marking are up to 1.6'/0.5m less than required in curves. Therefore, taxiing in TWY curves always has to be performed with great accuracy at Frankfurt APT.

Rapid exit TWYs: TWY L7, L8, L10, L15

The radius of the turn-off curve is significantly less than the required minimum of 550m on rapid exit TWYs.

RWY holding positions: TWY L, L1, L21, M, M29, T, U, W, W9, Y, Y1, Y3, S33

At the following holding positions, approach surface 07C and/or take-off climb surface 25C are penetrated by holding ACFT:

- TWY L: CAT I RWY holding position before RWY 18,
- TWY M: CAT I RWY holding position before RWY 18 and RWY holding position M2,
- TWY L21: CAT I RWY holding position before RWY 07C/25C,
- TWY W: RWY holding positions W4, W6 and W8,
- TWY Y: RWY holding position Y2,
- TWY Y1: RWY holding position Y10.

At the following holding positions, approach surface 25C and/or take-off climb surface 07C are penetrated by holding ACFT:

- TWY L1: CAT I RWY holding position before RWY 07C/25C,
- TWY T: RWY holding positions T2 and T4,
- TWY U: RWY holding positions U2 and U4.

At the following holding positions, approach surface 07R is penetrated by holding ACFT:

- TWY M29: CAT I RWY holding position before RWY 07R/25L,
- TWY S33: RWY holding position S40,
- TWY W: RWY holding positions W6, W8 and W10,
- TWY W9: RWY holding position W9,
- TWY Y: RWY holding position Y6,
- TWY Y3: RWY holding position Y12.

At the following holding positions, approach surface 25L and/or take-off climb surface 07R are penetrated by holding ACFT:

- TWY T: RWY holding position T6 and T8,
- TWY U: RWY holding positions U6 and U8.

TWY width: TWY Y5

The TWY width is slightly less than the required 75'/23m for ACFT with an outer main gear wheel span 30'/9m to 49'/15m.

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AIRPORT BRIEFING

1. GENERAL

1.5.6.2. Clearance Distances

At a majority of the ACFT stands, the clearance distances to neighbouring objects are less than required.

Especially for ACFT stands A26-A40, safe horizontal distances of at least 3.6'/0.8m to height-restricted objects are to be expected in the area of the wings.

1.6. PARKING INFORMATION

On stands A11 thru A40, A50 thru A69, B20 thru B48, C4 thru C16, D1 thru D4A, D5 thru D8A, E2, E2A, E5, E5A, E6 thru E9A, F211 thru F232, F233, F234 thru F238, G1 thru G16, H2 thru H6, H14, J2 thru J8, K2 thru K10, S501 thru S604, V94 thru V130, V143, V144, V266 thru V270, V322 thru V328 and V702 thru V721 push-back required.

In order to protect ground handling personnel from jet blast and to avoid damage, pilots are not allowed to increase engine power significantly above idle speed during taxi procedures into and out of stands, in particular for stands A1, B10 and C2.

On stands A11, A13 thru A26, A28, A30, A34, A36, A38, A40, A50, A52, A54 thru A54B, A58 thru A58B, A62 thru A62B, A66 thru A66B, A69, B20, B22 thru B28, B41 thru B48, C4, C5, C6, C8, C11, C13, C14, C14S, C15, C15A, C15S, C16, C16A, C16S, D1, D1A, D4, D4A, D5, D5A, D8, D8A, E2, E2A, E5, E5A, E6, E6A, E9, E9A, F211, F213, F214, F215, F231, F232, F233, F237, F238, G1 thru G9, H2, H4, H6, K2, K4, K6, K8, K10, S501, S503, S504, V106 thru V130 and V266 thru V270 Visual Docking Guidance System (A-VDGS) available.

1.7. OTHER INFORMATION

Glider areas in vicinity of APT.

Warning: In cases of strong winds, wind shears and increased turbulence can be expected on RWY 18.

Bird strike warning system for RWY 07L APCH available.

For APT Collaborative Decision Making (ACDM) see ATC pages Germany.

2. ARRIVAL

2.1. NOISE ABATEMENT PROCEDURES

Frankfurt ATC will apply the following "NIGHT Procedures":

Between 2200-0500LT all inbound ACFT shall expect a RNP X approach.

In addition, pilots should be prepared not to expect a descent clearance below FL070 until 6NM prior to reaching KUGUK and/or ORVIV (RWYs 25C/25L) and 6NM prior to reaching ULNOK and/or IBLUS (RWYs 07C/07R). Pilots shall adjust their speed accordingly and are urgently requested to conduct the descent from FL070 as continuous descent, whenever possible.

In the case that RNP X approach procedures cannot be applied due to the absence of RNP equipment or restricting weather minima, pilots will be issued a clearance for an ILS approach in compliance with the "NIGHT approach procedures" described below.

During "NIGHT approach procedures" inbound ACFT should expect clearances whereby the final track will be reached not closer to the APT than:

- approximately 18NM (RWYs 25 C/L); and
- approximately 19NM (RWYs 07 C/R) from THR.

This corresponds with the waypoints DF622 (25L), DF522 (25C), DF652 (07R) und DF552 (07C). The fly-by function of these waypoints is not affected.

Pilots should subsequently expect a clearance for an ILS approach with GP interception at 5000'.

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2. ARRIVAL

In addition, pilots should expect a clearance to descend below FL070 only 6NM prior to reaching the above-mentioned points. Pilots should adjust their speed accordingly and are urgently requested to perform their descent from FL070 as a continuous descent whenever possible.

These procedures may not be applied:

- to flights with STS/HOSP;
- in meteorological conditions such as CB,TS;
- in emergencies.

In the event of a technical failure of the ILS equipment, i.e. the need to fly non-precision approaches, descent clearances to 4000' will be issued.

2.2. CAT II/III OPERATIONS

RWYs 07L, 07C, 07R, 25L, 25C and 25R approved for CAT II/III operations, special aircrew and ACFT certification required.

2.3. RWY OPERATIONS

2.3.1. HIGH INTENSITY RWY OPERATIONS (HIRO)

ACFT of CAT SUPER will not be included in high intensity RWY operations, but should also vacate the RWY as quickly as possible.

At NIGHT, the use of HIRO is restricted to RWY 07L/25R and RWY 07R/25L.

2.3.1.1. APPROACH

ACFT on A- and D-STARs will be guided onto RWY 07L/25R, while ACFT on B- and C-STARs will be guided onto RWY 07R/25L. Irrespective of this, approaching ACFT which are planned to be parked at an ACFT stand in Cargo City South or at the GAT will preferably be guided to RWY 07R/25L. If operationally possible, ACFT which are parked in the Eastern section of the Northern apron and at T3 will also be guided to RWY 07R/25L.

When changing frequencies from LANGEN Radar to FRANKFURT Director initial call shall be restricted to

FRANKFURT DIRECTOR + CALLSIGN + WAKE TURBULENCE CATEGORY

if other than "M" to avoid frequency congestion. When being transferred from approach control to aerodrome control the initial call shall consist of

FRANKFURT TOWER, CALL SIGN, TYPE OF APPROACH + RWY

2.3.1.2. APPROACHES AT A GLIDE ANGLE OF 3.2°

RWY 07L/25R is equipped with two ILS systems for each landing direction.

One ILS per landing direction radiates signals for a glide angle of 3.2°, the other one for a glide angle of 3.0°.

The PAPI systems indicate the correct path down to a height of 200' for 3.0° and 3.2°.

Regular operations will be conducted under CAT I conditions only. The approach procedure will only be assigned if no long-lasting tail wind (more than 30 minutes) is expected. If tail wind prevails or is to be expected, the provisions of Item 1.2.1.1. will be applied and an ILS approach procedure at 3.0° will be assigned for RWY 07L/25R.

If it is not possible to conduct an approach at 3.2° for safety reasons, the pilot shall mention this in the initial call to LANGEN Radar. Such ACFT will be assigned another RWY.

2.3.1.3. ARRIVALS

Pilots are reminded:

- to plan and to name the expected rapid exit TWY during the APCH briefing;
- to vacate the RWY as quickly as possible;
- to adjust taxi speed after touchdown when it is evident that the ACFT will miss the planned rapid exit TWY. Low taxi speeds shall be avoided on the RWY.

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2. ARRIVAL

Whenever RWY conditions permit, the following rapid exit TWYs shall be considered for planning:

RWY	ACFT	Preferred Turnoffs	Dist from THR ft (m)
07L	HEAVY (except SUPER)	P6	7382' (2250m)
	MEDIUM (JET)	P8	5741' (1750m)
	MEDIUM (PROP)/LIGHT	P10	4429' (1350m)
07C DAY only	HEAVY (except SUPER)	L9	8202' (2500m)
	MEDIUM/LIGHT	L11	5906' (1800m)
07R	HEAVY (except SUPER)	M13	7054' (2150m)
	MEDIUM/LIGHT	M15	5659' (1725m)
25L	HEAVY (except SUPER)	M21	7464' (2275m)
	MEDIUM (JET)	M17	6135' (1870m)
	MEDIUM (PROP)/LIGHT	M11	3560' (1085m)
25C DAY only	HEAVY (except SUPER)	L13	6742' (2055m)
	MEDIUM (JET)	L10	5577' (1700m)
	MEDIUM (PROP)/LIGHT	L8	3691' (1125m)
25R	HEAVY (except SUPER)	P20	7382' (2250m)
	MEDIUM (JET)	P16	5741' (1750m)
	MEDIUM (PROP)/LIGHT	P14	4429' (1350m)

Aerodrome Control may apply reduced separation on RWYs. Any changes in separation by Aerodrome Control shall be observed.

Pilots may only change the frequency after landing if instructed to do so by Aerodrome Control.

If pilots do not receive further taxi clearance, they shall stop in front of a RWY and the corresponding landing and take-off climb surfaces and TWYs L and N11.

2.4. TAXI PROCEDURES

To maintain smooth taxiing traffic, ACFT having landed on RWY 07R/25L will be guided, if possible, to defined change-over points, depending on the assigned parking position, to cross RWY 07C/25C.

This procedure will be withdrawn during adverse weather conditions, at the latest when CAT III operation is in force.

Exiting RWY 25C out of exit TWY L8 up to code C only.

2.5. OTHER INFORMATION

Parallel independent operation may be in force.

2.5.1. FLIGHT AND DESCENT PLANNING

For flight and descent planning purposes expect the following levels at the transfer points from LANGEN ACC to FRANKFURT APP:

- KERAX between FL130 and FL110;
- SPESA between FL120 and FL100;
- ROLIS at FL150;
- UNOKO between FL130 and FL110 (at RAMOB).

These levels shall only be used for planning purposes. The actual transfer level will be cleared by ATC individually.

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3. DEPARTURE

3.1. DATALINK DEPARTURE CLEARANCE (DCL)

In addition to clearances via radio, DFS Deutsche Flugsicherung GmbH offers to issue start-up approval and en-route clearance by means of data link (Eurocae Standard ED85A).

The following time parameters apply to data link departure clearances (DCL):

- t_i 30 minutes prior to TOBT (earliest point in time for cockpit RCD message).
- t_T TSAT (latest point in time for cockpit RCD message).
- t_0 1 minute (defined standard).
- t_1 5 minutes (defined standard).
- t_2 1 minute (defined standard).

The clearance (CLD - departure clearance uplink message) issued by the tower is based on TSAT - "Start-up approved according TSAT". The TSAT issued at this point in time by means of the TSAT reporting channels applies. In addition, the pilot shall monitor TSAT updates. After completion of the data link process, the pilots shall maintain continuous air-ground voice communication watch on the frequency given in the CLD and shall refrain from asking questions about the start-up approval.

Depending on the traffic and weather situation, the process can be altered and the enroute clearance can be transmitted separately via data link (CLD) after receiving an RCD, while start-up approval will be issued at a later point in time. Pilots are obliged to state during their initial call (RCD) whether only an enroute clearance (Request ENROUTE CLEARANCE) or a combined enroute and start-up approval (Request START-UP and ENROUTE CLEARANCE) is requested.

Pilots shall maintain continuous air-ground voice communication watch on frequency FRANKFURT Delivery throughout the complete process.

3.2. DE-ICING

3.2.1. GENERAL

Notification of ACFT de-icing may be sent on frequency 121.985 or via phone 069/690-30560 by the ACFT operator or his representative. In the period of 1 May up to and including 14 October, requests for ACFT de-icing can only be made by phone: 069/690-30560.

3.2.2. ACFT STANDS

The de-icing of ACFT at the respective ACFT stands will take place with engines switched off, passenger bridges cast off, and the ACFT clear of handling equipment.

3.2.3. REMOTE DE-ICING PADS (DPS)

The remote De-icing Pad West (DPW) falls within the responsibility of Aerodrome Control and includes de-icing pads DP1 and DP2. When carrying out de-icing procedure, responsibility will temporarily be transferred to FRANKFURT Apron.

If necessary for operations, the ADC will assign ACFT to be de-iced at additional locations (TWY N7, positions V159, V161 and G16A). Instructions for taxiing to and onto these positions will be issued by FRANKFURT Apron. ACFT will be guided by a marshaller to the de-icing position. The marshaller's instructions must be followed. When requested by FRANKFURT Apron, radiotelephony communication shall be established with the de-icing crew on the frequency assigned. ACFT parked on positions East of TWY N3 which intend to depart from RWY 18 can be de-iced at position G16A with running engines.

De-icing on DP1 and DP2 Center MAX wingspan less than 262'/80m.

De-icing on DP2 East and DP2 West MAX wingspan less than 118'/36m.

ACFT which were de-iced on DP1 will be guided to TWY W1 by Apron Control before handed over to ATC.

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3. DEPARTURE

After de-icing on DP2 intersection take-off out of TWY W3 from RWY 18 required.

On the remote de-icing pads, only jet ACFT with running engines will be de-iced. Propeller ACFT will not be de-iced for safety reasons.

Underwing de-icing or with hot air, de-icing of undercarriage or de-icing with special viscosities, the control of the central engines (e.g. DC10, MD11), as well as special examinations of individual ACFT parts (e.g. hands on checks) cannot be carried out on the remote de-icing pads.

ACFT will be positioned on de-icing pad DP1 by an eyeline to the LEFT of centerline, which depicts the exact holding position to the pilot optically. This taxiing-aid is made up of 5 amber surface lights with single-sided beams. If the surface lighting or the eyeline is out of order, ACFT will be guided by a marshaller.

ACFT will be positioned on de-icing pad DP2 by an eyeline to the LEFT of the respective centerline, which enables the pilot to visualize the exact holding position. This eyeline is made up to 5 yellow surface lights which shine on one side. If centerline lighting or eyeline is out of operation, ACFT will be guided by a marshaller.

During the de-icing proceedings, the pilot-in-command shall ensure continuous listening watch on the respective frequency of FRANKFURT Apron. After de-icing proceedings have been concluded, the pilot-in-command shall report to FRANKFURT Apron that he is ready to taxi.

3.3. START-UP AND TAXI PROCEDURES

3.3.1. GENERAL

At TOBT, the ACFT must be ready for start-up or on-stand de-icing, and the pilot shall maintain continuous air-ground voice communication watch on the frequency of FRANKFURT Delivery.

Start-up may be requested and approved either via radio or data link (DCL).

Starting engines on push-back stands may only take place prior to push-back operation and after prior approval by apron control.

ACFT parking on stand B10 have to contact FRANKFURT Apron, prior to actual engine start-up.

3.3.2. FROM 0600-2200LT

All ACFT parked at positions East of TWY N3 and planned for departure from RWY 18 have to expect to taxi via TWYs U, T, R and S. Departure will take place basically from position S. Pilots unable to comply with these conditions shall advise FRANKFURT Apron upon initial contact.

3.3.3. STANDARD TAXI ROUTE (STR)

Name	Handover from Apron to DFS	Taxi Instructions	Holding Point
TRANSITION 1	STOP U2	U-S-S11-R-S28-S	S-RWY18

If the flight crew is unable to follow the standard taxi route TRANSITION 1, they shall inform during the initial call.

If the flight crew becomes unsure about TRANSITION 1, they shall request an individual clearance.

3.3.3.1. VOICE COMMUNICATION

Standard taxi route TRANSITION 1.

ACFT CALL SIGN.

Taxi to holding point RWY 18, intersection Sierra, via TRANSITION 1.

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3. DEPARTURE

3.4. NOISE ABATEMENT PROCEDURES

3.4.1. OPERATIONAL RWY USE AND SID CONCEPT - STANDARD OPS

In general, pilots have to expect en-route clearance according to this concept. OPR are requested to file SID in flight plan according to this guideline. Deviating SID in flight plan will be changed automatically. Route details and further non-standard SIDs see 10-3 pages. Non-standards on pilot's request only. Non-standard operation temporarily possible, if considered necessary by ATC. If unable to comply with restrictions, advise EDDF Delivery prior to start-up.

RWY-in-use	RWY (C)enter (L)eft (R)ight	SID Route Designator	Direction/ACFT CAT	NAV Spec
25/18			<p>RWY 25C for DEP to the NW (OBOKA), N (MARUN), NE (TOBAK).</p> <p><i>RWY 25L</i> with special authorization by <i>TWR only</i>.</p> <p>RWY 18 for DEP to the SW (SOBRA, ULKIG), S (ANEKI), SE (CINDY), E (SULUS).</p>	
07/18			<p>RWY 07C for DEP to the NW (OBOKA), N (MARUN), NE (TOBAK), E (SULUS) and EDDN Area (KOMIB).</p> <p><i>RWY 07R</i> with special authorization by <i>TWR only</i>.</p> <p>RWY 18 for DEP to the SW (SOBRA, ULKIG), S (ANEKI), SE (CINDY).</p>	

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3. DEPARTURE

In general, pilots have to expect en-route clearance according to this concept. OPR are requested to file SID in flight plan according to this guideline. Deviating SID in flight plan will be changed automatically. Route details and further non-standard SIDs see 10-3 pages. Non-standards on pilot's request only. Non-standard operation temporarily possible, if considered necessary by ATC. If unable to comply with restrictions, advise EDDF Delivery prior to start-up.

RWY-in-use	RWY (C)enter (L)eft (R)ight	SID Route Designator	Direction/ACFT CAT	NAV Spec
25	C + L	FOXTROT	2-engined HEAVY ACFT to the N, NE.	BRNAV
	C + L	GOLF	2-engined HEAVY ACFT to the NW, N, NE. All ACFT to the NW, N, NE unable to comply with restrictions on SIDs northbound.	BRNAV
	C	MIKE	All ACFT, except 2-engined HEAVY ACFT, to the NW, N, NE unable WHISKEY.	BRNAV
	C	WHISKEY	Shall be used by all ACFT, except 2-engined HEAVY ACFT, to the NW, N, NE complying with RNP-1 and RF-leg requirements instead of MIKE.	RNP-1*
	L	HOTEL	All ACFT RWY 25L (with special authorization by TWR only), except 2-engined HEAVY ACFT, to the NW, N, NE unable KILO.	BRNAV
	L	KILO	Shall be used by all ACFT RWY 25L (with special authorization by TWR only), except 2-engined HEAVY ACFT, to the NW, N, NE complying with RNP-1 and RF-leg requirements instead of HOTEL.	RNP-1*
	C + L	NOVEMBER	Between 2200-0700LT: All 3- and 4-engined HEAVY and SUPER ACFT due to noise abatement.	RNAV-1
	C + L	PAPA	Single- and Twin-Props may use PAPA to the SW instead of RWY 18.	RNAV-1
	C + L	QUEBEC	In case of RNAV-failure and by ATC only.	NON RNAV

* Check SID description for required NAV-specification/sensor restriction.

3. DEPARTURE

In general, pilots have to expect en-route clearance according to this concept. OPR are requested to file SID in flight plan according to this guideline. Deviating SID in flight plan will be changed automatically. Route details and further non-standard SIDs see 10-3 pages. Non-standards on pilot's request only. Non-standard operation temporarily possible, if considered necessary by ATC. If unable to comply with restrictions, advise EDDF Delivery prior to start-up.

RWY-in-use	RWY (C)enter (L)eft (R)ight	SID Route Designator	Direction/ACFT CAT	NAV Spec
07	C + R	CHARLIE	In case of RNAV-failure and by ATC only.	NON RNAV
	C + R	DELTA	All HEAVY and SUPER ACFT to the NW, N, NE, E.	BRNAV
			All MEDIUM and LIGHT ACFT to the NE, E or if considered necessary by ATC.	
			All MEDIUM and LIGHT ACFT to the NW, N if considered necessary by ATC.	
	Between 2200-0700LT: All ACFT to the NW, N, NE, E due to noise abatement.			
C + R	ECHO	Between 0700-2200LT: All MEDIUM and LIGHT ACFT to the NW, N.	BRNAV	
18		BRAVO	In case of RNAV-failure and by ATC only.	NON RNAV
		LIMA	All ACFT to the SW, S, SE. All ACFT to the NW (by ATC only).	RNAV-1*
		UNIFORM	Shall be used by all ACFT to the SW complying with the restrictions and RNP-1 and RF-leg requirements.	RNP-1
		SIERRA	All ACFT to the SE. All ACFT to the SW, NW, N, NE (by ATC only).	RNAV-1*
		ROMEO	Between 2300-0600LT: All ACFT to the NW, N, NE (by ATC only).	RNAV-1*

* Check SID description for required NAV-specification/sensor restriction.

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3. DEPARTURE

3.4.2. ADDITIONAL NOISE ABATEMENT MEASURES

3.4.2.1. OPERATIONAL CONCEPT "NOISE RESPITE PERIODS"

At APT, noise respite periods for operating direction 25 will be implemented in accordance with the following plan.

As a rule, the following RWY shall always be used during the times shown:

Between 0500-0600LT

- RWYs 25C/R shall be used for landing;
- RWY 25L shall be used for departing.

Between 2200-2300LT

- RWY 25L shall be used for landing;
- RWYs 18 and 25C shall be used for departing.

GENERAL

As a rule, noise respite periods will always be implemented in the time periods between 0500-0600LT and between 2200-2300LT, provided the conditions required by air traffic control are met.

In the provision of air traffic control, the following flights, among others, will be exempt from the regulations of the noise respite periods:

- Flights for which the pilot has declared an emergency or which are apparently in an emergency situation, including flights affected or threatened by unlawful interference;
- Security flights of air defense;
- Flights on search and rescue missions;
- Flights transporting sick or injured persons requiring immediate medical assistance (including flights designated as LHO (Live Human Organ));
- Government flights, including flights with Head of State status in accordance with the regulations laid down by the Federal Ministry of Transport and Digital Infrastructure (BMVI);
- Flights where a pilot requests the use of a certain RWY for safety reasons;
- Particularly endangered flights;
- Calibration flights.

In addition, noise respite periods will not be implemented when restricted by infrastructure or poor weather conditions (e.g. construction work, snow clearing).

Further information can be found in the "alliance paper" which is the basis for the respite periods (www.wirtschaft.hessen.de).

PROCEDURES

The provisions concerning delayed take-offs and landings of ACFT described in Para 1.2.2. remain unchanged.

If the APT operator Fraport or an airline using the APT thinks that the implementation of the noise respite period in the morning or evening is very likely to lead to operational disruptions, they shall inform the aviation supervision office (Luftaufsicht) about this. The aviation supervision office will then suspend the noise respite period without further formalities or verification processes.

The aviation supervision office (Luftaufsicht) will inform Fraport about the suspension of the noise respite period. Fraport will in turn inform the air navigation services and airlines using its communication channels.

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FRANKFURT/MAIN

7 JUL 23

10-1P16

Eff 13 Jul

AIRPORT BRIEFING

3. DEPARTURE

3.4.3. DEDICATED RWY OPERATIONS (DROPS)

When RWY 07 is in use, between 0500-0600LT RWY utilization will be arranged on **odd** calendar days:

All take-offs will be handled via RWY 18, thus avoiding the utilisation of the RWYs 07C/07R for take-offs.

When using the DROps procedures and operating direction 07 for departures to the North, only SIDs with the designation "R" will be allocated by the AD control tower. ACFT unable to adhere to "Cross FFM R-200 at or above 2500'" on the SIDs with the designation "R" will only be granted start-up approval and enroute clearance after coordination has taken place with the approach control unit.

Special Features

If meteorological conditions and/or other operational conditions do not allow the use of RWY 18, another RWY will be allocated after coordination has taken place with the approach control unit. This also applies to ambulance flights and/or flights with corresponding priority of service.

On **even** weekdays, the current procedures employed and published shall apply.

3.5. RWY OPERATIONS

3.5.1. CALCULATED TAKE-OFF TIME (CTOT) AND SLOT PROCEDURES

Departing ACFT shall be ready for take-off at the RWY 5 minutes prior to CTOT at the earliest, and at CTOT at the latest.

3.5.2. HIGH INTENSITY RWY OPERATIONS (HIRO)

ACFT that are not ready for departure will not receive clearance to line up.

Pilots are requested to report to Aerodrome Control if they are not ready to depart without being asked.

Pilots shall advise Aerodrome Control on initial call of the earliest possible intersection take-off.

When using RWYs 07 and 18, pilots of ACFT of wake turbulence categories light and medium which are taxiing to RWY 18 via TWY N or L due to their ACFT stand shall calculate the take-off run from the intersection to TWY M in order to avoid a departure delay due to required separation from arriving ACFT on RWY 07R.

Pilots who cannot accept a take-off run from the intersection of TWY M are requested to advise ATC at the same time they request start-up approval.

The entire RWY system is characterized by interdependencies. Pilots are thus expected to begin their take-off runs immediately after receiving their take-off clearance.

After take-off, ACFT should rapidly accelerate to the published maximum speed for the initial segment of the cleared SID. Afterwards, or if there is no published MAX speed, ACFT below FL100 should rapidly accelerate to 250 KT.

3.6. OTHER INFORMATION

3.6.1. GENERAL

When glider areas in vicinity of APT activated, expect higher crossing altitude by ATC for SIDs which require higher climb gradient than standard.

Winds between 200° and 160° in a clockwise direction and speeds of 15 KT and more shall be expected on RWY 18. Gusts and strong windshifts up to tail wind components may occur.

JEPPESEN FRANKFURT / MAIN, GERMANY **RNAV STAR**
 27 OCT 23 (10-2B) Eff 2 Nov

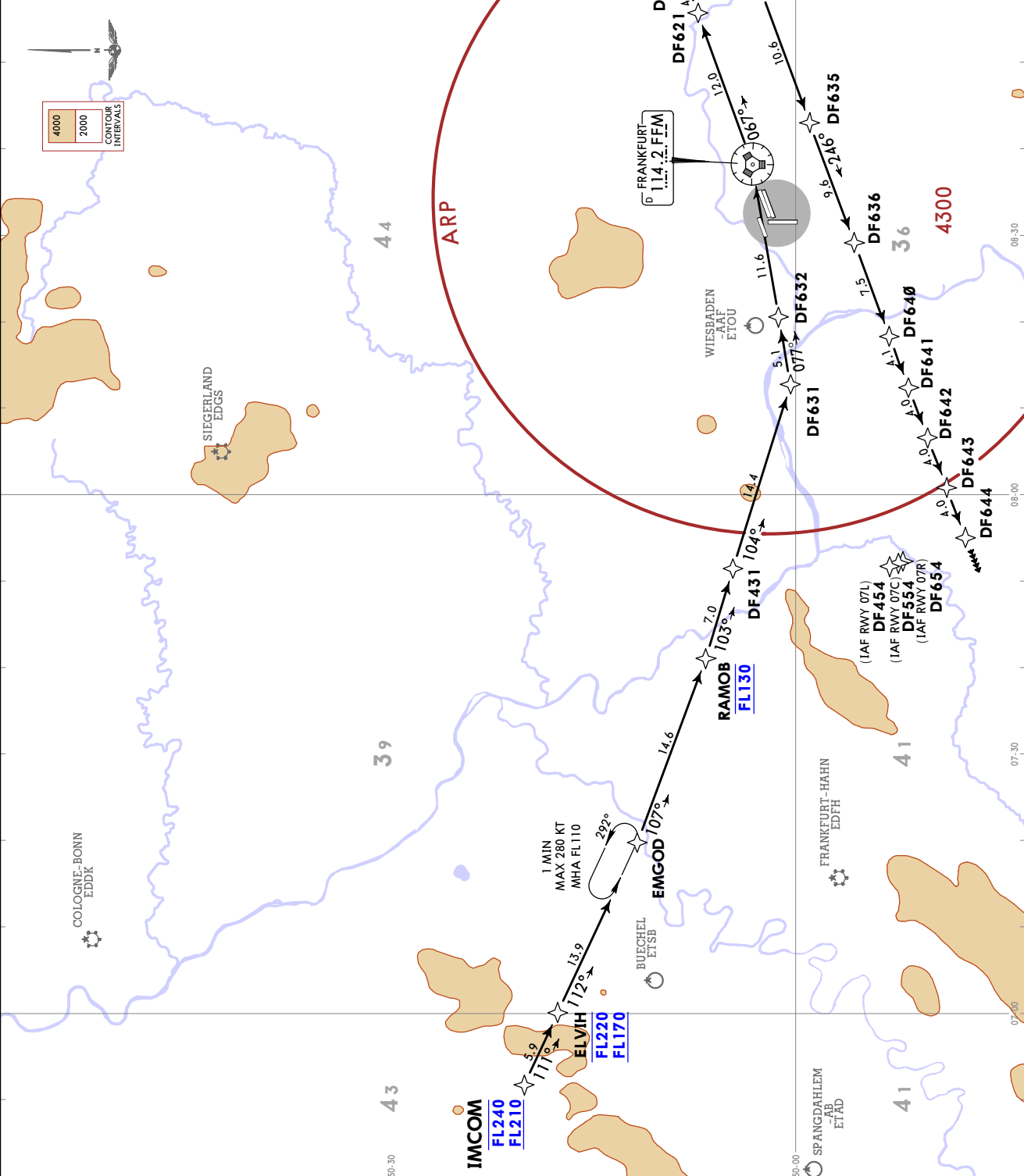
D-ATIS 118.030	Apt Elev 363	Alt Set: hPa (IN on request) Trans level: By ATC RNP 1 Required
1. MAINTAIN downwind track beyond end point if no succeeding instruction (vector/clearance for approach) is received. 2. If unable to comply with level restrictions advise ATC.		

IMCOM 1C [IMC01C]
RNP ARRIVAL
 (RWYS 07L/C/R)
SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITH AIRSPACE C

ROUTING

IMCOM (FL240 - FL210+) - ELVIH (FL220 - FL170+) - EMGOD - RAMOB (FL130) - DF431 - DF632 - FFM - DF622 - DF623 (K220) - DF613 - DF612 - DF611 - DF635 - DF636 - DF640 - DF641 - DF642 - DF643 - DF644.

Flights shall follow the cleared STAR laterally and comply with the following instructions:
 If already cleared to FL130 or below continue immediately via respective STAR, otherwise enter holding at EMGOD, descend to FL130 and continue on STAR thereafter without delay.
 If cleared "Direct to (waypoint)" or "(Via (waypoint))", continue as cleared and follow the subsequent part of the respective STAR.
 After passing DF636 (RWY07), continue descend to 4000.
 When reaching end of STAR or already beyond, turn direct to IAF DF654 (RWY 07R) and follow an adequate instrument approach procedure to land on RWY 07R.



A clearance for a STAR with level and/or speed restrictions consists of a lateral and vertical part:
 Lateral part: "Cleared (designator) arrival"
 Vertical part: "Descend via STAR FL (figures)"
 Adherence to waypoint restrictions is mandatory after a "Descend via STAR FL (figures)" clearance.
 Non-adherence may lead to separation infringement.
 Do not descend below the FL cleared by ATC.

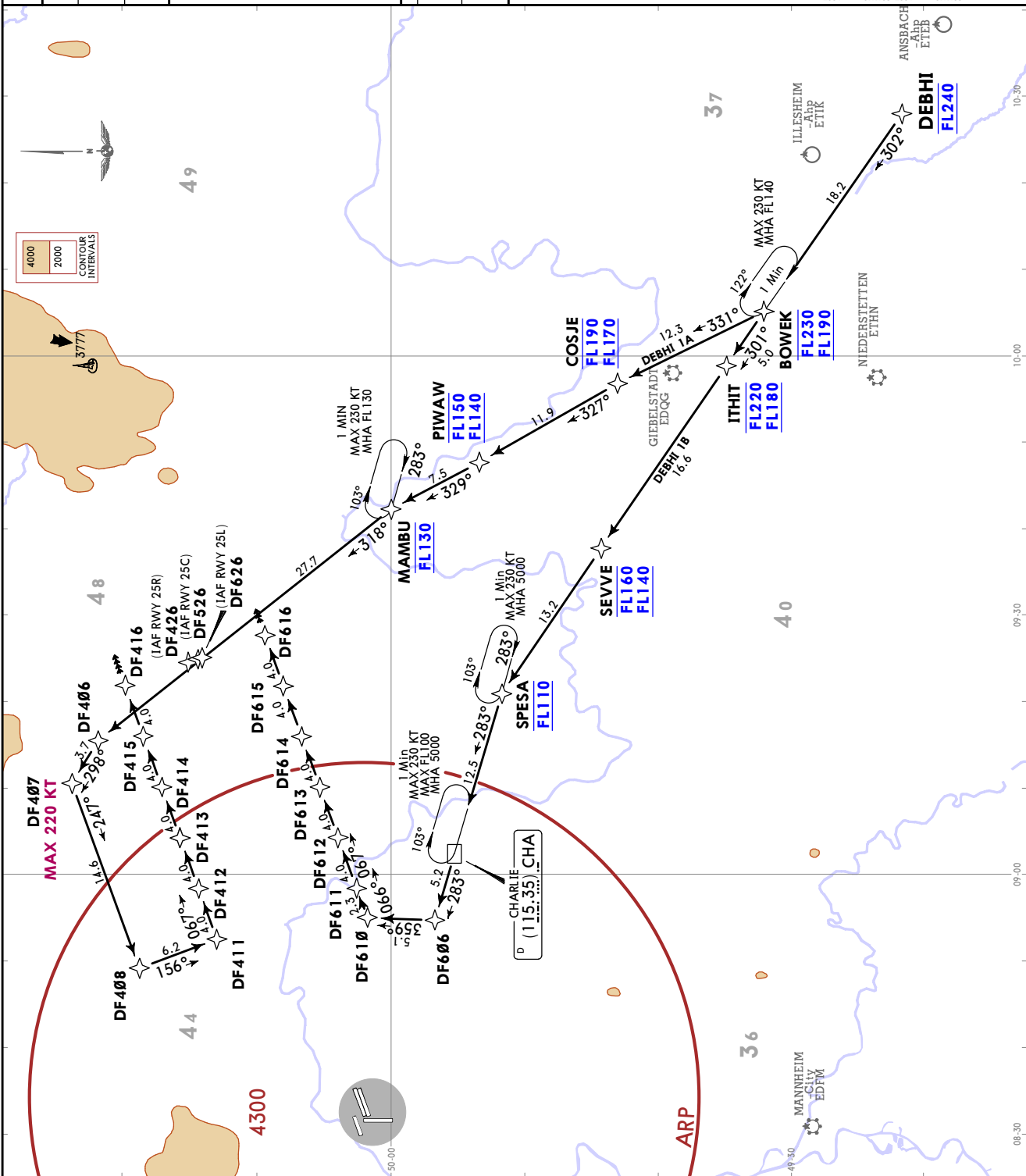
D-ATIS	118.030	Apt Elev	363
Alt. Sea: hPa (IN on request)			
Trans level: By ATC			
RNAV (GPS, DME/DME, DME/DME/IRU)			
RNAV 1 required			
RADAR required			
1. MAINTAIN downwind track beyond end point if no succeeding instruction (vector/clearance for approach) is received.			
2. If unable to comply with level restrictions advise ATC.			

DEBHI 1A [DEBH1A]
DEBHI 1B [DEBH1B]
RNAV ARRIVALS
(RWYS 25L/C/R)
SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C

STAR	ROUTING
DEBHI 1A By ATC	DEBHI (FL240) - BOWEK (FL230+; FL190+) - COSJE (FL190+; FL170+) - PIWAW (FL150+; FL140+) - MAMBU (FL130) - DF406 - DF407 (K220) - DF408 - DF411 - DF412 - DF413 - DF414 - DF415 - DF416.
DEBHI 1B	DEBHI (FL240) - BOWEK (FL230+; FL190+) - ITHIT (FL220+; FL180+) - SEVVE (FL160+; FL140+) - SPESA (FL110) - CHA - DF606 - DF610 - DF611 - DF612 - DF613 - DF614 - DF615 - DF616.

A clearance for a STAR with level and/or speed restrictions consists of a lateral and a vertical part:
 Lateral part: "Cleared (designator) arrival."
 Vertical part: "Descend via STAR FL (figures)."
 Adherence to waypoint restrictions is mandatory after a "Descend via STAR FL (figures)" clearance. Non-adherence may lead to separation infringement. Do not descend below the FL cleared by ATC.

LOST COMMS
 Flights shall follow the cleared STAR laterally and comply with the following instructions:
 If already cleared to FL130 or below continue immediately via respective STAR, otherwise enter holding at MAMBU/SPESA descend to FL130 and continue on STAR thereafter without delay.
 If cleared "Direct to (waypoint)" or "Via (waypoint)", continue as cleared and follow the subsequent part of the respective STAR. After passing DF411/DF611 (RWY 25L), continue descend to 4000.
 When reaching end of STAR or already beyond, turn direct to IAF DF626 (RWY 25L) and follow an adequate instrument approach procedure to land on RWY 25L.
 LOST COMMS



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JEPPESEN FRANKFURT / MAIN, GERMANY
8 DEC 23 (10-2G) **RNAV STAR**

D-ATIS: **118.030** Apt Elev: **363**

Alt Set: hPa (IN on request)
Trans level: By ATC
RNAV (GPS, DME/DME, DME/DME/IRU)
RNAV 1 required
RADAR required

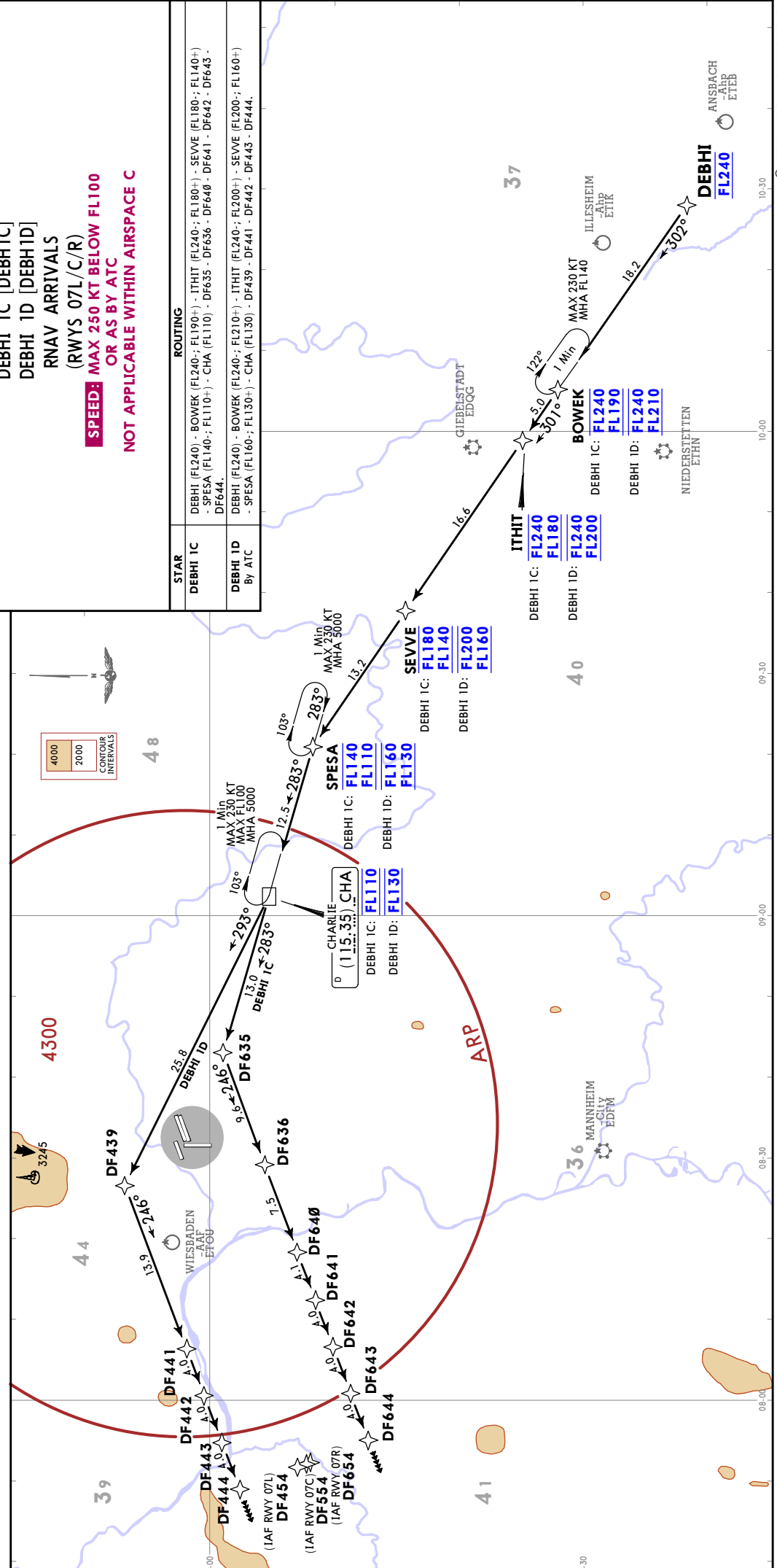
1. MAINTAIN downwind track beyond end point if no succeeding instruction (vector/clearance for approach) is received.
2. If unable to comply with level restrictions advise ATC.

DEBHI 1C [DEBHC]
DEBHI 1D [DEBHD]
RNAV ARRIVALS
(RWYS 07L/C/R)
SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C

STAR	ROUTING
DEBHI 1C	DEBHI (FL240) - BOWEK (FL240; FL190+) - ITHIT (FL240; FL180+) - SEVVE (FL180; FL140+) - SPESA (FL140; FL110+) - CHA (FL110) - DF635 - DF640 - DF641 - DF642 - DF643 - DF644.
DEBHI 1D By ATC	DEBHI (FL240) - BOWEK (FL240; FL210+) - ITHIT (FL240; FL200+) - SEVVE (FL200; FL160+) - SPESA (FL160; FL130+) - CHA (FL130) - DF439 - DF441 - DF442 - DF443 - DF444.

A clearance for a STAR with level and/or speed restrictions consists of a lateral and a vertical part:
Lateral part: 'Cleared (designator) arrival.'
Vertical part: 'Descend via STAR FL (figures)'.
Adherence to waypoint restrictions is mandatory after a 'Descend via STAR FL (figures)'.
Non-adherence may lead to separation infringement.
Do not descend below the FL cleared by ATC.

- LOST COMMS
- Flights shall follow the cleared STAR laterally and comply with the following instructions:
 - ▶ If already cleared to FL130 or below continue immediately via respective STAR, otherwise enter holding at SPESA, descend to FL130 and continue on STAR thereafter without delay.
 - ▶ If cleared "Direct to (waypoint)" or "(via (waypoint))", continue as cleared and follow the subsequent part of the respective STAR.
 - ▶ After passing DF439/DF636 (RWY07), continue descend to 4000.
 - ▶ When reaching end of STAR or already beyond, turn direct to IAF DF654 (RWY 07R) and follow an adequate instrument approach procedure to land on RWY 07R.



EDDF / FRA
FRANKFURT/MAIN

JEPPESENFRANKFURT/MAIN, GERMANY
RNAV STAR

8 DEC 23 (10-2M)

D-ATIS
118.030
Apt Elev
363

Alt Set: hPa (IN on request)
Trans level: By ATC

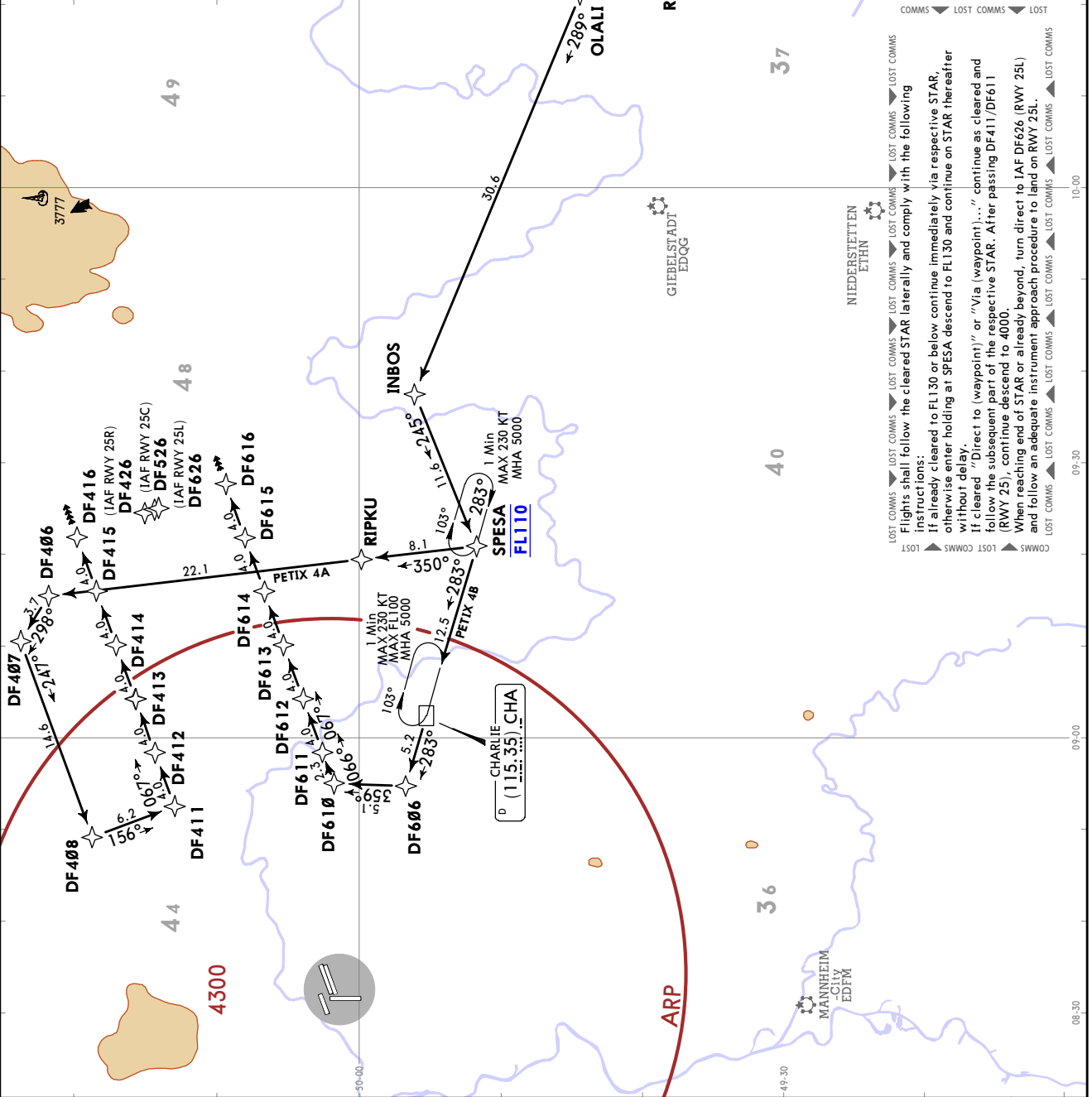
RNAV (GPS, DME/DME, DME/DME/IRU)
RNAV 1 required
RADAR required

MAINTAIN downwind track beyond end point if no succeeding instruction (vector/clearance for approach) is received.

PETIX 4A [PETI4A], PETIX 4B [PETI4B]
RNAV ARRIVALS
(RWYS 25L/C/R)
BY ATC

SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C

STAR	ROUTING
PETIX 4A	PETIX (FL110+) - ODEGU - KEPIT - SUKAD - REKDI - OLALI - INBOS - SPESA (FL110) - RIPKU - DF406 - DF407 - DF411 - DF412 - DF413 - DF414 - DF415 - DF416.
PETIX 4B	PETIX (FL110+) - ODEGU - KEPIT - SUKAD - REKDI - OLALI - INBOS - SPESA (FL110) - CHA - DF606 - DF610 - DF611 - DF612 - DF613 - DF614 - DF615 - DF616.



LOST COMMS
Flights shall follow the cleared STAR laterally and comply with the following instructions:
If already cleared to FL130 or below continue immediately via respective STAR, otherwise enter holding at SPESA descend to FL130 and continue on STAR thereafter without delay.
If cleared "Direct to (waypoint)" or "Via (waypoint)"... continue as cleared and follow the subsequent part of the respective STAR. After passing DF411/DF611 (RWY 25), continue descend to 4000.
When reaching end of STAR or already beyond, turn direct to IAF DF626 (RWY 25L) and follow an adequate instrument approach procedure to land on RWY 25L.

JEYPESEN
 8 DEC 23 (10-2N)
RNAV STAR

EDDF / FRA
 FRANKFURT / MAIN

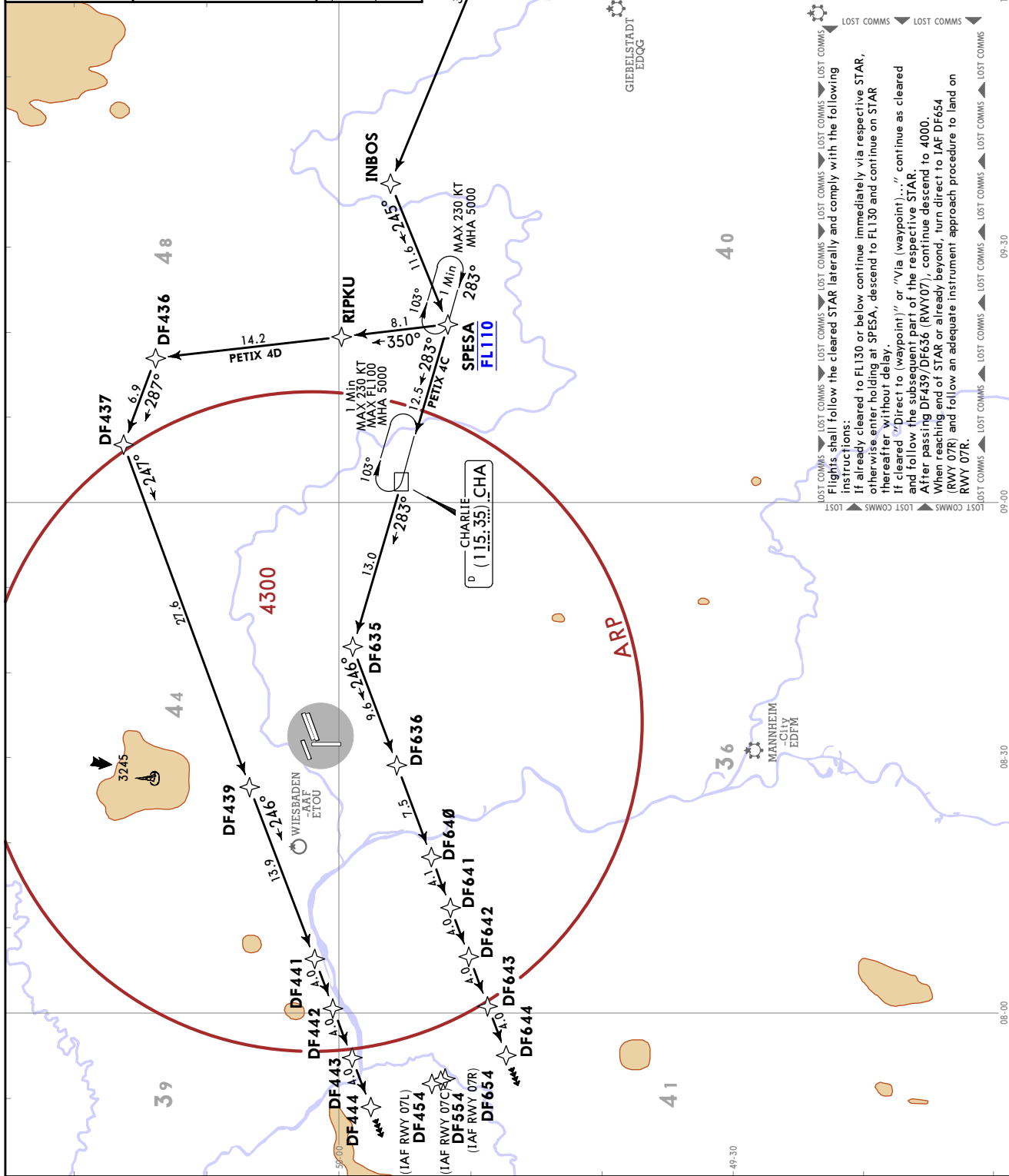
FRANKFURT / MAIN
 GERMANY
RNAV STAR

D-ATIS 118.030	Apt Elev 363
Alt Set: hPa (IN on request) Trans level: By ATC	
RNAV (GPS, DME/DME, DME/DME/IRU) RNAV 1 required RADAR required	
MAINTAIN downwind track beyond end point if no succeeding instruction (vector/clearance for approach) is received.	

PETIX 4C [PETI4C]
 PETIX 4D [PETI4D]
 RNAV ARRIVALS
 (RWYS 07L/C/R)
 BY ATC

**SPEED: MAX 250 KT BELOW FL100
 OR AS BY ATC
 NOT APPLICABLE WITHIN AIRSPACE C**

STAR	ROUTING
PETIX 4C	PETIX (FL110+) - ODEGU - KEPIT - SUKAD - REKDI - OLALI - INBOS - SPESA (FL110) - CHA - DF635 - DF636 - DF640 - DF641 - DF642 - DF643 - DF644.
PETIX 4D	PETIX (FL110+) - ODEGU - KEPIT - SUKAD - REKDI - OLALI - INBOS - SPESA (FL110) - RIPKU - DF436 - DF437 - DF439 - DF441 - DF442 - DF443 - DF444.



LOST COMMS
 Flights shall follow the cleared STAR laterally and comply with the following instructions:
 If already cleared to FL130 or below continue immediately via respective STAR, otherwise enter holding at SPESA, descend to FL130 and continue on STAR thereafter without delay.
 If cleared "Direct to (waypoint)" or "Via (waypoint)", continue as cleared and follow the subsequent part of the respective STAR.
 After passing DF439/DF636 (RWY07), continue descend to 4000.
 When reaching end of STAR or already beyond, turn direct to IAF DF654 (RWY 07R) and follow an adequate instrument approach procedure to land on RWY 07R.

JEPPESEN
27 OCT 23 (10-2P) Eff 2 Nov

FRANKFURT/MAIN, GERMANY
RNAV STAR

D-ATIS
118.030
Apt Elev
363

Alt Set: hPa (IN on request)
Trans level: By ATC

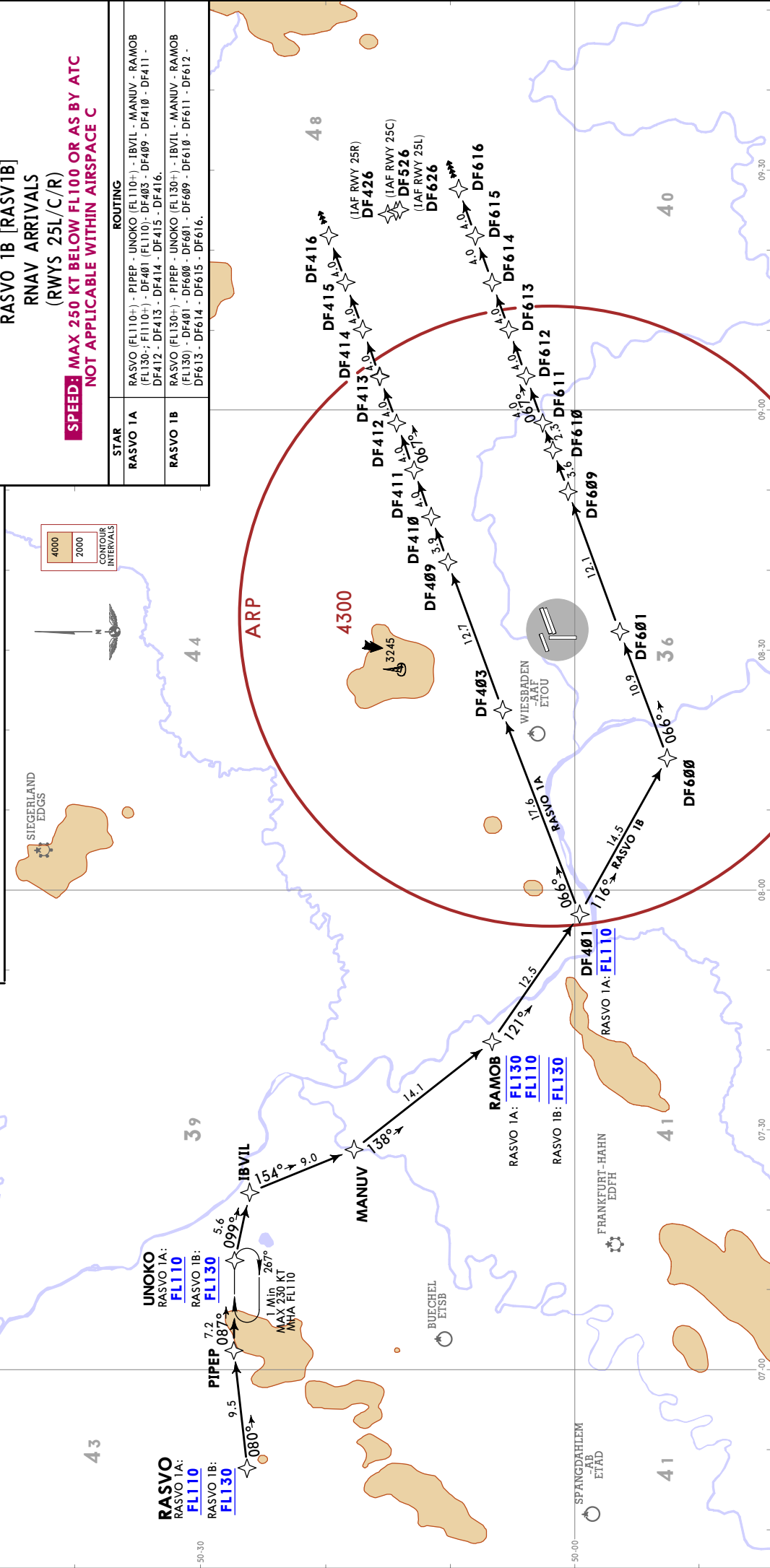
RNAV (GPS, DME/DME, DME/DME/IRU)
RNAV 1 required
RADAR required

MAINTAIN downwind track beyond end point if no succeeding instruction (vector/clearance for approach) is received.

RASVO 1A [RASV1A]
RASVO 1B [RASV1B]
RNAV ARRIVALS
(RWYS 25L/C/R)
SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC
NOT APPLICABLE WITH AIRSPACE C

STAR	ROUTING
RASVO 1A	RASVO (FL110+) - PIPEP - UNOKO (FL110+) - IBVIL - MANUV - RAMOB (FL130 - FL110+) - DF401 (FL110) - DF403 - DF409 - DF410 - DF411 - DF412 - DF413 - DF414 - DF415 - DF416.
RASVO 1B	RASVO (FL130+) - PIPEP - UNOKO (FL130+) - IBVIL - MANUV - RAMOB (FL130) - DF401 - DF403 - DF409 - DF601 - DF611 - DF612 - DF613 - DF614 - DF615 - DF616.

LOST COMMS
Flights shall follow the cleared STAR laterally and comply with the following instructions:
 ▲ If already cleared to FL130 or below continue immediately via respective STAR, otherwise enter holding at UNOKO descend to FL130 and continue on STAR thereafter without delay.
 ▲ If cleared "Direct to (waypoint)" or "Via (waypoint)"... continue as cleared and follow the subsequent part of the respective STAR. After passing DF411/DF611 (RWY 25), continue descend to 4000.
 ▲ When reaching end of STAR or already beyond, turn direct to IAF DF626 (RWY 25L) and follow an adequate instrument approach procedure to land on RWY 25L.
 LOST COMMS



EDDF/FRA
FRANKFURT/MAIN

EDDF / FRA
FRANKFURT / MAIN

JEPPESEN FRANKFURT / MAIN, GERMANY
27 OCT 23 (10-2T) Eff 2 Nov

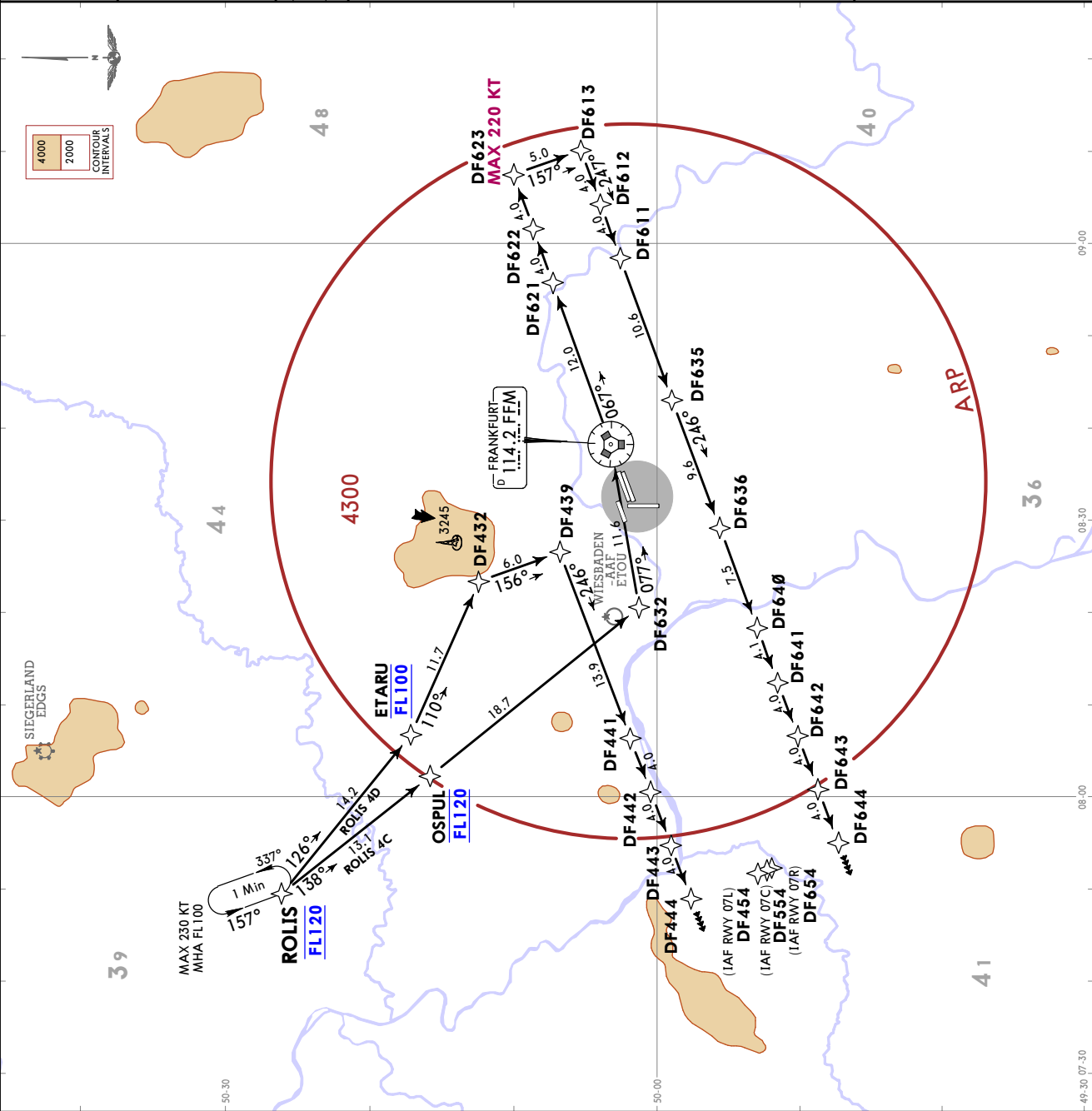
RNAV STAR

D-ATIS 118.030	Apt Elev 364	Alt Set: hPa (IN on request) Trans level: By ATIS
RNAV (GPS, DME/DME, DME/DME/IRU). RNAV 1 required. RADAR required. MAINTAIN downwind track beyond end point. If no succeeding instruction (vector/clearance for approach) is received.		

ROLIS 4C [ROLI4C]
ROLIS 4D [ROLI4D]
RNAV ARRIVALS
(RWYS 07L/C/R)

SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C

STAR	ROUTING
ROLIS 4C	ROLIS (FL120) - OSPUL (FL120) - DF632 - FFM - DF621 - DF622 - DF623 (K220-) - DF613 - DF612 - DF611 - DF635 - DF636 - DF641 - DF642 - DF643 - DF644.
ROLIS 4D	ROLIS (FL120) - ETARU (FL100) - DF432 - DF439 - DF441 - DF442 - DF443 - DF444.



LOST COMMS
Flights shall follow the cleared STAR laterally and comply with the following instructions:
If already cleared to FL130 or below continue immediately via respective STAR, otherwise enter holding at ROLIS, descend to FL130 and continue on STAR thereafter without delay.
If cleared "Direct to (waypoint)"/ or "Via (waypoint)..." continue as cleared and follow the subsequent part of the respective STAR.
After passing DF439/DF636 (RWY07), continue descend to 4000.
When reaching end of STAR or already beyond, turn direct to IAF DF654 (RWY 07R) and follow an adequate instrument approach procedure to land on RWY 07R.

EDDF/FRA
FRANKFURT/MAIN

27 OCT 23

10-2U

Eff 2 Nov

RNAV STAR

KERAX 3G [KERA3G]
SPESA 2G [SPES2G]
RNAV ARRIVALS (RWYS 25L/C)

KERAX 4R [KERA4R]
SPESA 4R [SPES4R]
RNAV ARRIVALS (RWYS 07C/R)

BY ATC
PROCEDURES SHOULD BE USED
BETWEEN 2300-0500LT BY ALL
RNAV (GPS) EQUIPPED ACFT

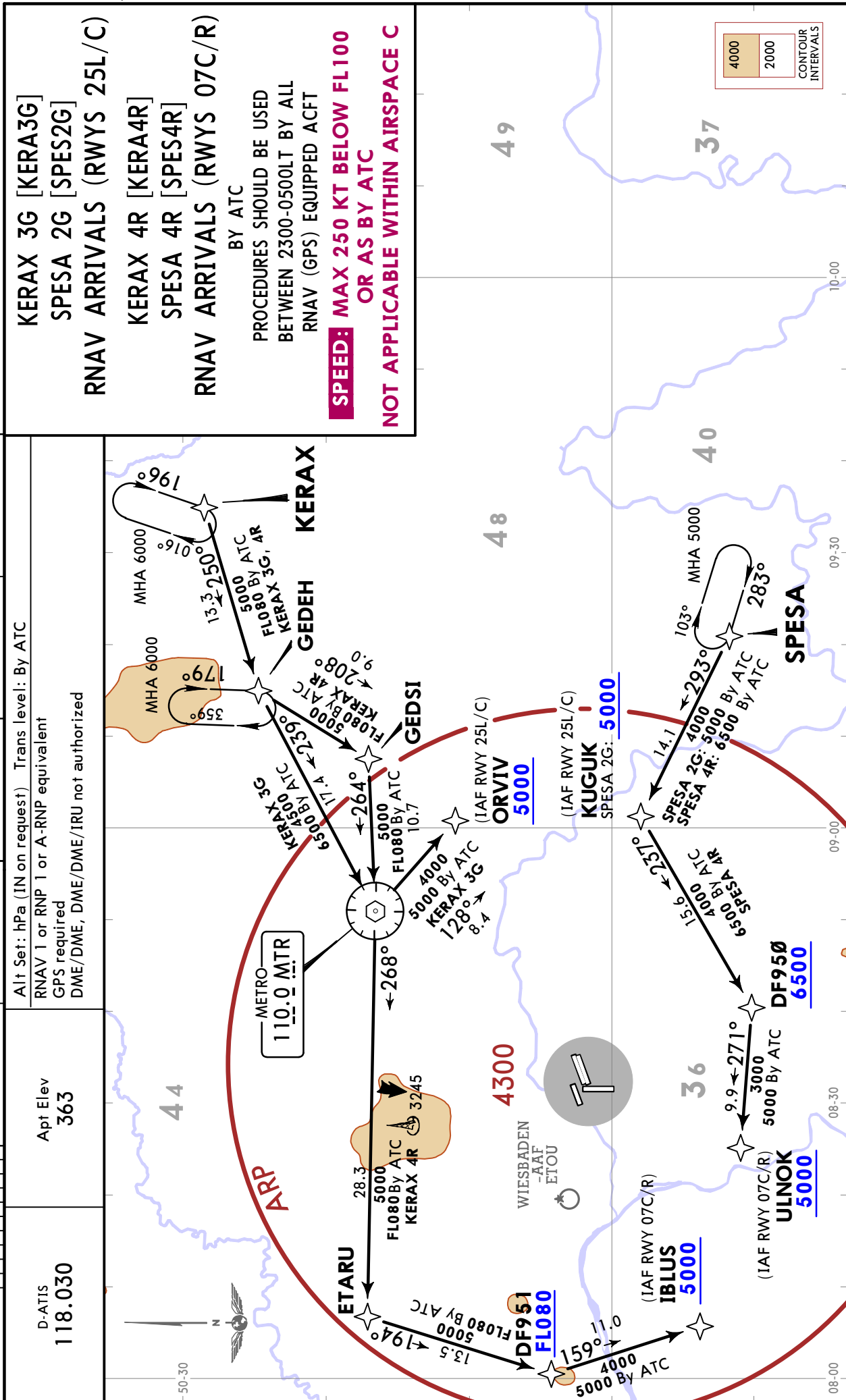
SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C

Alt Set: hPa (IN on request) Trans level: By ATC
RNAV 1 or RNP 1 or A-RNP equivalent
GPS required
DME/DME, DME/DME/IRU not authorized

Apt Elev
363

D-ATIS
118.030

50
40
30
20
10
0
10
10



EDDF/FRA
FRANKFURT/MAIN

JEPPESSEN FRANKFURT/MAIN, GERMANY
27 OCT 23 10-2V Eff 2 Nov **RNAV STAR**

ROLIS 4G [ROLI4G], UNOKO 4G [UNOK4G]
RNAV ARRIVALS (RWYS 25L/C)

ROLIS 3R [ROLI3R], UNOKO 4R [UNOK4R]
RNAV ARRIVALS (RWYS 07C/R)

BY ATC

PROCEDURES SHOULD BE USED BETWEEN 2300-0500LTL
BY ALL RNAV (GPS) EQUIPPED ACFT

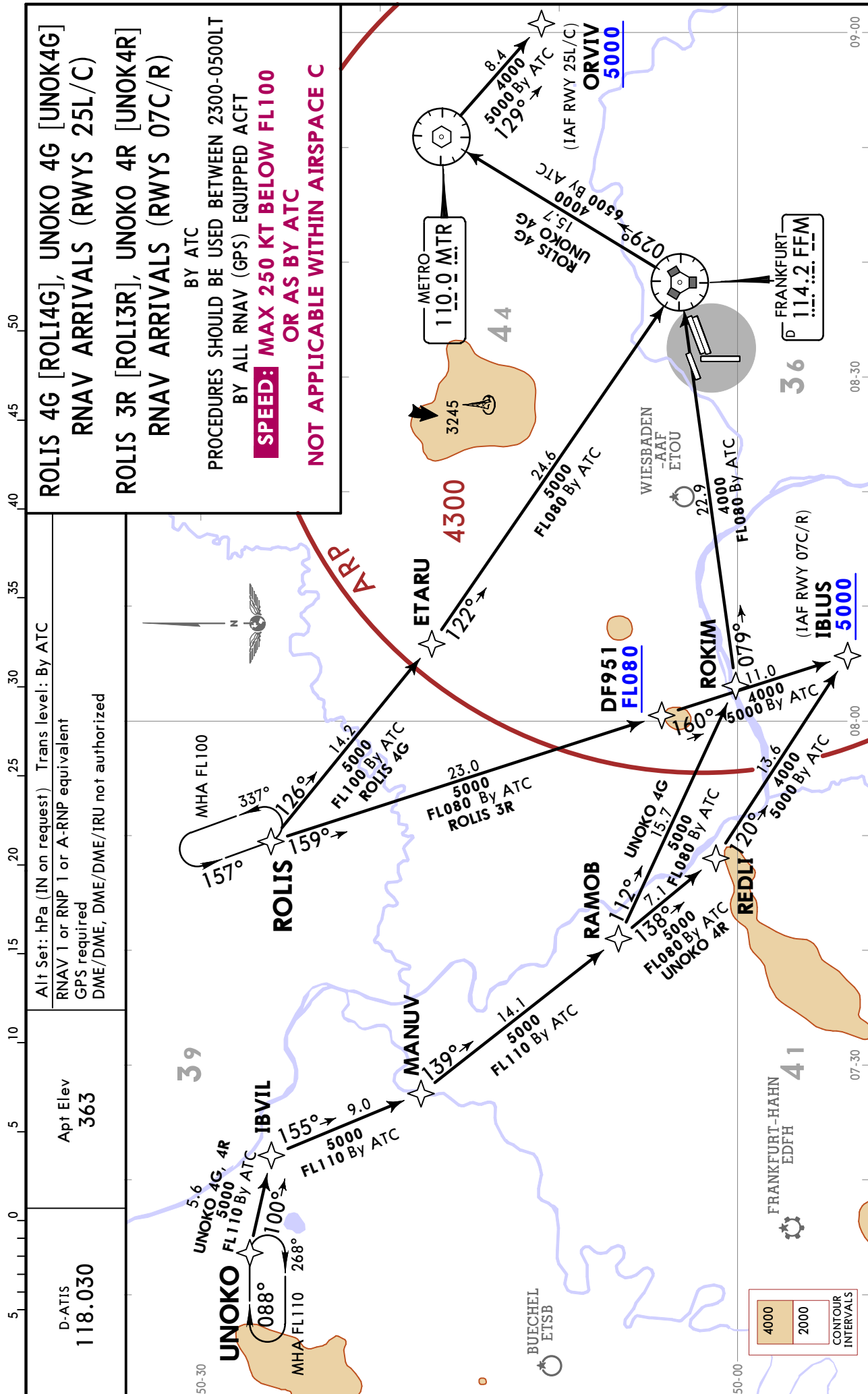
SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC

NOT APPLICABLE WITHIN AIRSPACE C

Alt Set: hPa (IN on request) Trans level: By ATC
RNAV 1 or RNP 1 or A-RNP equivalent
GPS required
DME/DME, DME/DME/IRU not authorized

Apt Elev
363

D-ATIS
118.030



EDDF/FRA
FRANKFURT/MAIN

JEPPESSEN FRANKFURT/MAIN, GERMANY
 4 AUG 23 **10-3** **Eff 10 Aug** **RNAV SID**

RNAV SID DESIGNATION	REFER TO CHART
ANEKI 1X	10-3A3
ANEKI 1Y	10-3A4
CINDY 1X	10-3A5
CINDY 1Y	10-3A6
SOBRA 2U	10-3A7
SOBRA 1X	10-3A8
SOBRA 1Y	10-3A9
ANEKI 3A	10-3B
CINDY 2A	10-3C
MARUN 3K	10-3C1
MARUN 3W	10-3C2
OBOKA 3K	10-3C3
OBOKA 3W	10-3C4
SULUS 3A	10-3C5
TOBAK 3K	10-3C6
TOBAK 3W	10-3C7
ANEKI 3D	10-3C8
ANEKI 5E	10-3C9
ANEKI 2F, 2L	10-3C10
CINDY 2D	10-3D
CINDY 3F	10-3E
CINDY 3L	10-3E1
CINDY 5S	10-3E2
MARUN 1N	10-3E3
MARUN 4R	10-3E4
MARUN 8S	10-3E5
MARUN 6T	10-3E6
OBOKA 5N	10-3E7
OBOKA 2L, 4S	10-3E8
OBOKA 2R	10-3E9
OBOKA 3T	10-3E10

FOR FURTHER RNAV SID DESIGNATION REFER TO PAGE 10-3A

EDDF/FRA
FRANKFURT/MAIN

 **JEPPESEN FRANKFURT/MAIN, GERMANY**
4 AUG 23 (10-3A) Eff 10 Aug **RNAV SID**

RNAV SID DESIGNATION	REFER TO CHART
SOBRA 7D	10-3F
SOBRA 7E	10-3G
SOBRA 8F, 7P	10-3G1
SOBRA 8N	10-3G2
SOBRA 2L	10-3G3
SULUS 3F	10-3G4
SULUS 2L	10-3G5
SULUS 4S	10-3G6
TOBAK 3N	10-3H
TOBAK 4R	10-3J
TOBAK 1S	10-3J1
TOBAK 8T	10-3K
ULKIG 2L, 3S	10-3L

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EDDF/FRA
FRANKFURT/MAIN

JEPPesen FRANKFURT/MAIN, GERMANY
4 AUG 23 (10-3A1) Eff 10 Aug
SID

SID DESIGNATION	REFER TO CHART
FRANKENSTEIN 1B	10-3L1
FRANKENSTEIN 1C, 1Q	10-3L2
KOMIB 3D	10-3L3
MARUN 9D, 5E	10-3L4
MARUN 6F, 1G	10-3L5
MARUN 5H	10-3L6
MARUN 7M	10-3L7
METRO 6C	10-3L8
OBOKA 1D, 1E	10-3M
OBOKA 3G	10-3N
OBOKA 2H	10-3N1
OBOKA 2M	10-3N2
SULUS 1D	10-3N3
TAUNUS 3Q	10-3N4
TOBAK 9D	10-3N5
TOBAK 7F, 2G	10-3N6
TOBAK 5H	10-3N7
TOBAK 7M	10-3N8

EDDF/FRA
FRANKFURT/MAIN

JEPPESEN FRANKFURT/MAIN, GERMANY
4 AUG 23 (10-3A2) Eff 10 Aug **RNAV SID (OVERLAY)**

RNAV SID DESIGNATION	REFER TO CHART
KOMIB 3D	10-3P
MARUN 9D, 5E	10-3Q
MARUN 6F, 1G	10-3Q1
MARUN 5H	10-3Q2
MARUN 7M	10-3Q3
OBOKA 1D, 1E	10-3Q4
OBOKA 3G	10-3Q5
OBOKA 2H	10-3S
OBOKA 2M	10-3T
SULUS 1D	10-3U
TOBAK 9D	10-3V
TOBAK 7F, 2G	10-3W
TOBAK 5H	10-3X
TOBAK 7M	10-3X1

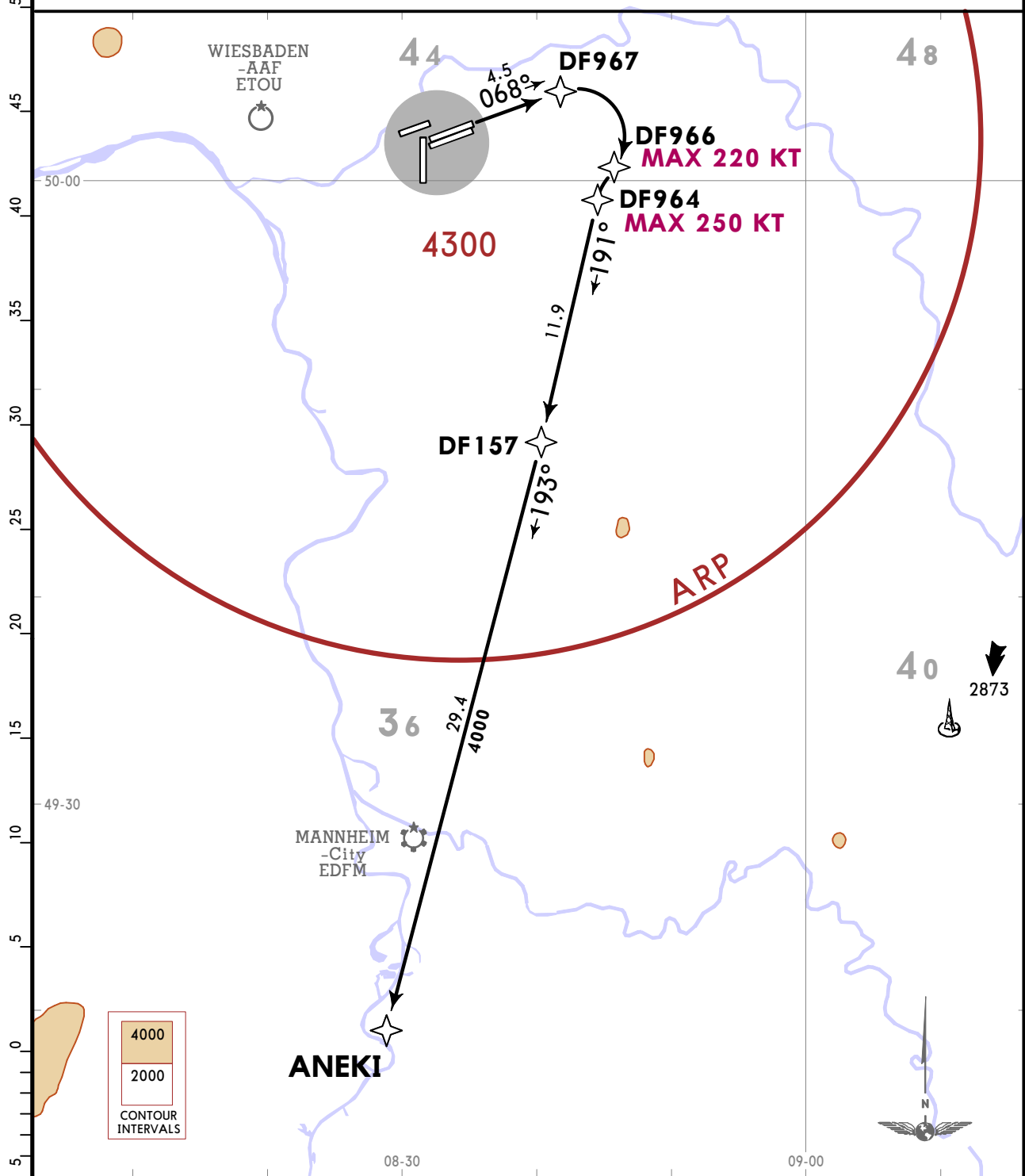
EDDF/FRA
FRANKFURT/MAIN

JEPPESEN FRANKFURT/MAIN, GERMANY
27 OCT 23 **10-3A3** **Eff 2 Nov** **RNAV SID**

*LANGEN Radar (APP) 136.130	Apt Elev 363	Trans alt: 5000
		RNP-1/A-RNP, RF leg required GPS required
1. Contact LANGEN Radar when advised by Tower. 2. WARNING: Close-in obstacles 3. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 4. For operational RWY use concept refer to 10-1P pages.		

ANEKI 1X [ANEK1X]
RNP DEPARTURE
(RWY 07C)

SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



Initial climb clearance 4000
ROUTING

On 068° track to DF967, turn RIGHT to DF966, turn LEFT to DF964, to DF157, to ANEKI.

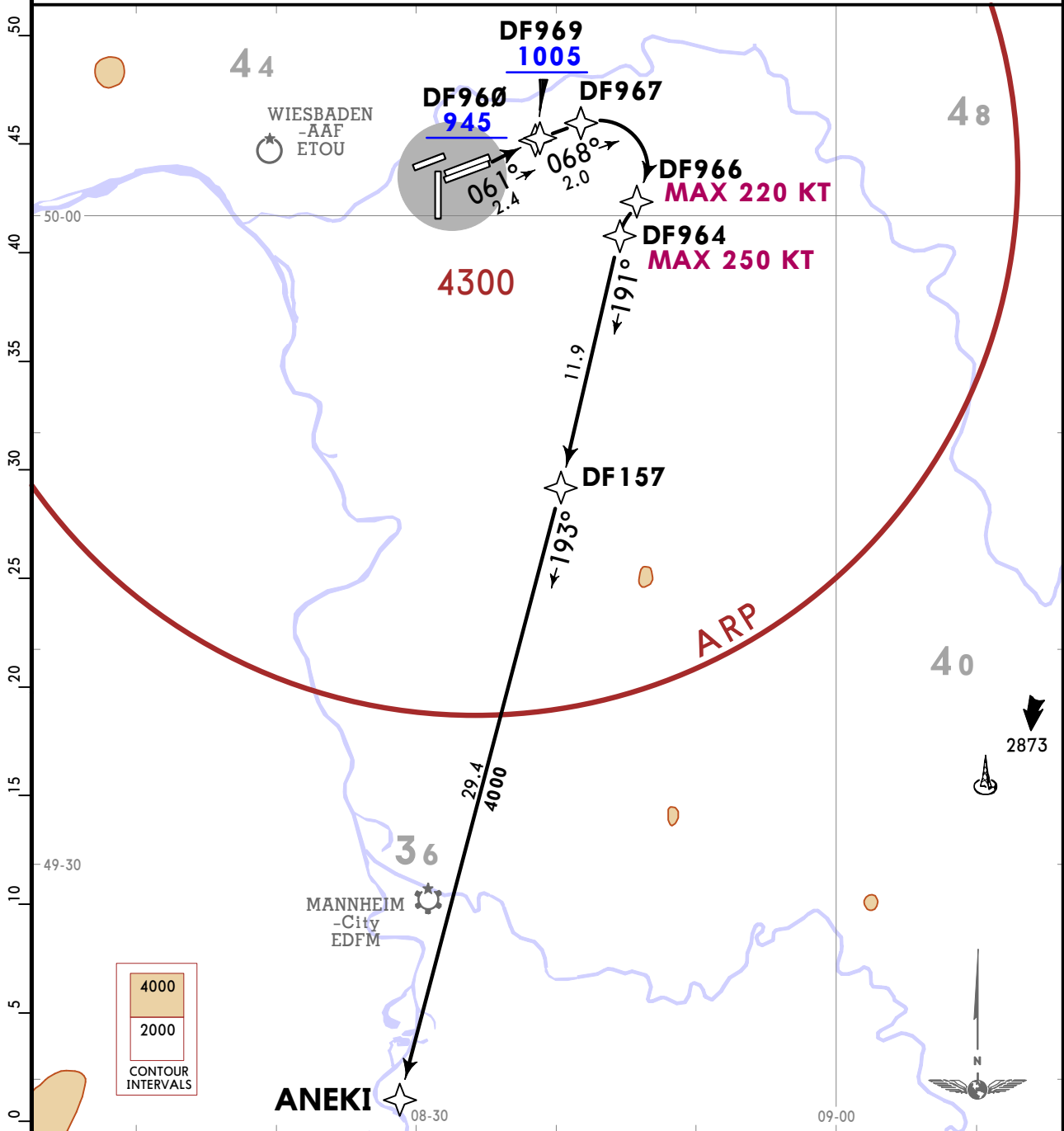
EDDF/FRA
FRANKFURT/MAIN

JEPPesen FRANKFURT/MAIN, GERMANY
27 OCT 23 **10-3A4** **Eff 2 Nov** **RNAV SID**

*LANGEN Radar (APP) 136.130	Apt Elev 363	Trans alt: 5000
		RNP-1/A-RNP, RF leg required GPS required
1. Contact LANGEN Radar when advised by Tower. 2. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 3. For operational RWY use concept refer to 10-1P pages.		

ANEKI 1Y [ANEK1Y]
RNP DEPARTURE
(RWY 07R)

SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



This SID requires a minimum climb gradient of 3.9% (240 FT/NM) until passing 1005 due to operational reasons.

Gnd speed-KT	75	100	150	200	250	300
3.9% V/V (fpm)	296	395	592	790	987	1185

Initial climb clearance 4000

ROUTING

On 061° track to DF960, turn RIGHT to DF969, to DF967, turn RIGHT to DF966, turn LEFT to DF964, to DF157, to ANEKI.

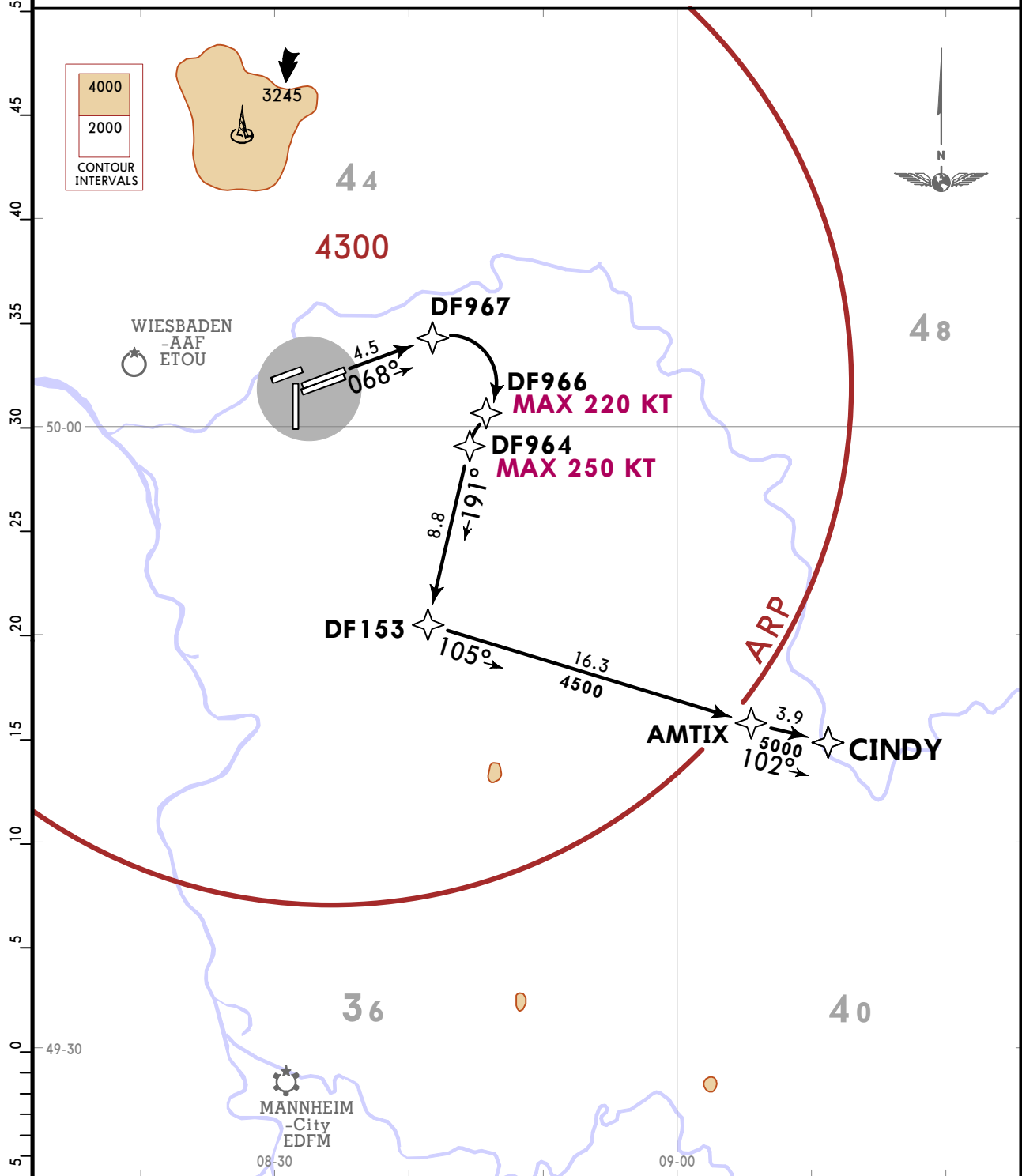
EDDF/FRA
FRANKFURT/MAIN

JEPPESSEN FRANKFURT/MAIN, GERMANY
27 OCT 23 **10-3A5** **Eff 2 Nov** **RNAV SID**

*LANGEN Radar (APP) 136.130	Apt Elev 363	Trans alt: 5000
		RNP-1/A-RNP, RF leg required GPS required
1. Contact LANGEN Radar when advised by Tower. 2. WARNING: Close-in obstacles. 3. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 4. For operational RWY use concept refer to 10-1P pages.		

CINDY 1X [CIND1X]
RNP DEPARTURE
(RWY 07C)

SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



Initial climb clearance 4000

ROUTING

On 068° track to DF967, turn RIGHT to DF966, turn LEFT to DF964, to DF153, to AMTIX, to CINDY.

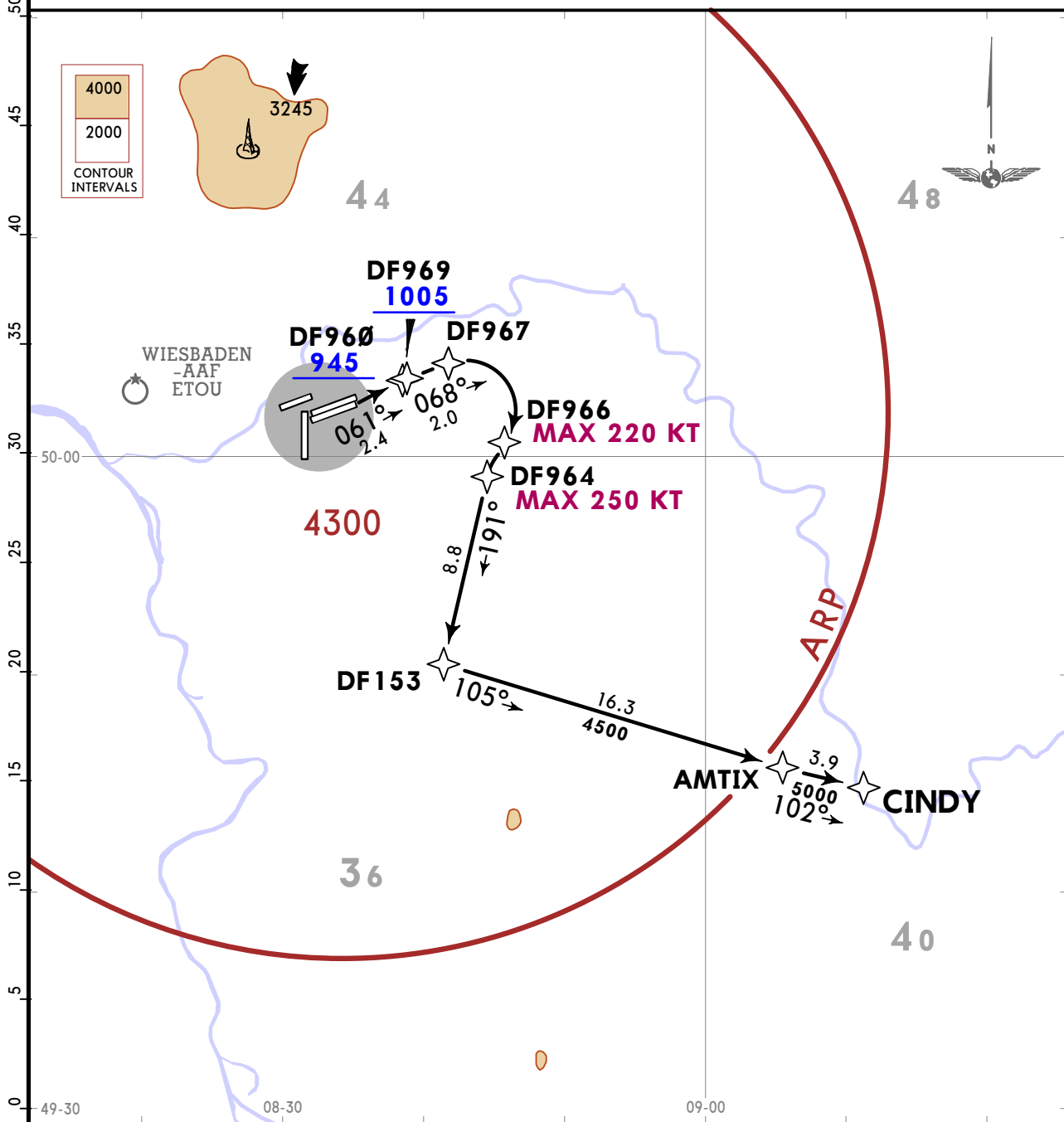
EDDF/FRA
FRANKFURT/MAIN

JEPPesen FRANKFURT/MAIN, GERMANY
27 OCT 23 **10-3A6** **Eff 2 Nov** **RNAV SID**

*LANGEN Radar (APP) 136.130	Apt Elev 363	Trans alt: 5000
		RNP-1/A-RNP, RF leg required GPS required
1. Contact LANGEN Radar when advised by Tower. 2. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 3. For operational RWY use concept refer to 10-1P pages.		

CINDY 1Y [CIND1Y]
RNP DEPARTURE
(RWY 07R)

SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



This SID requires a minimum climb gradient of 3.9% (240 FT/NM) until passing 1005 due to operational reasons.

Gnd speed-KT	75	100	150	200	250	300
3.9% V/V (fpm)	296	395	592	790	987	1185

Initial climb clearance **4000**

ROUTING

On 061° track to DF960, turn RIGHT to DF969, to DF967, turn RIGHT to DF966, turn LEFT to DF964, to DF153, to AMTIX, to CINDY.

EDDF/FRA
FRANKFURT/MAIN

JEPPESEN
3 NOV 23 **(10-3A7)**

FRANKFURT/MAIN, GERMANY
RNAV SID

*LANGEN Radar (APP) 136.130	Apt Elev 363	Trans alt: 5000
		RNP-1, RF required GPS
<ol style="list-style-type: none"> Contact LANGEN Radar when advised by Tower. WARNING: Close-in obstacles. WARNING: Wind shears and increased turbulences must be EXPECTED when strong winds. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. For operational RWY use concept refer to 10-1P pages. Do not turn before DER. If unable to cross DF201 at or above FL090 advise EDDF DELIVERY prior to start-up and EXPECT routing via SID ULKIG 2L. 		

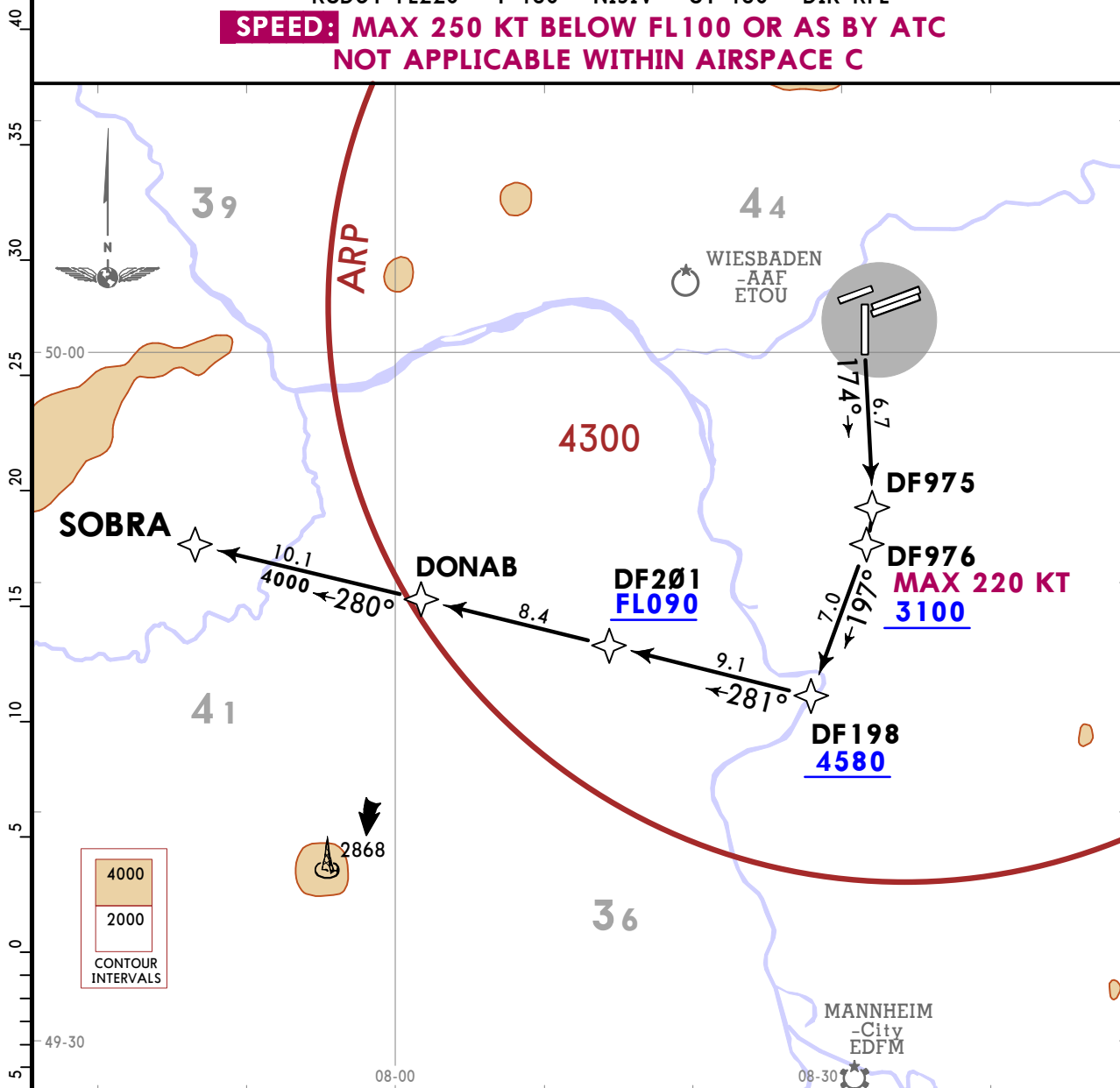
SOBRA 2U [SOBR2U]

RNP DEPARTURE

(RWY 18)

FOR FLIGHTS INTENDING TO PROCEED
AT OR ABOVE FL250 VIA AIRWAYS Y-180/Y-181
FLIGHTS HAVE TO BE ABLE TO CROSS RUDOT AT OR ABOVE FL240
IF UNABLE TO COMPLY FPL SHALL READ
RUDOT FL220 - Y-180 - NISIV - UY-180 - DIK RFL

SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



Initial climb clearance 4000

ROUTING

On 174° track to DF975, turn RIGHT to DF976, to DF198, to DF201, to DONAB, to SOBRA.

EDDF/FRA
FRANKFURT/MAIN

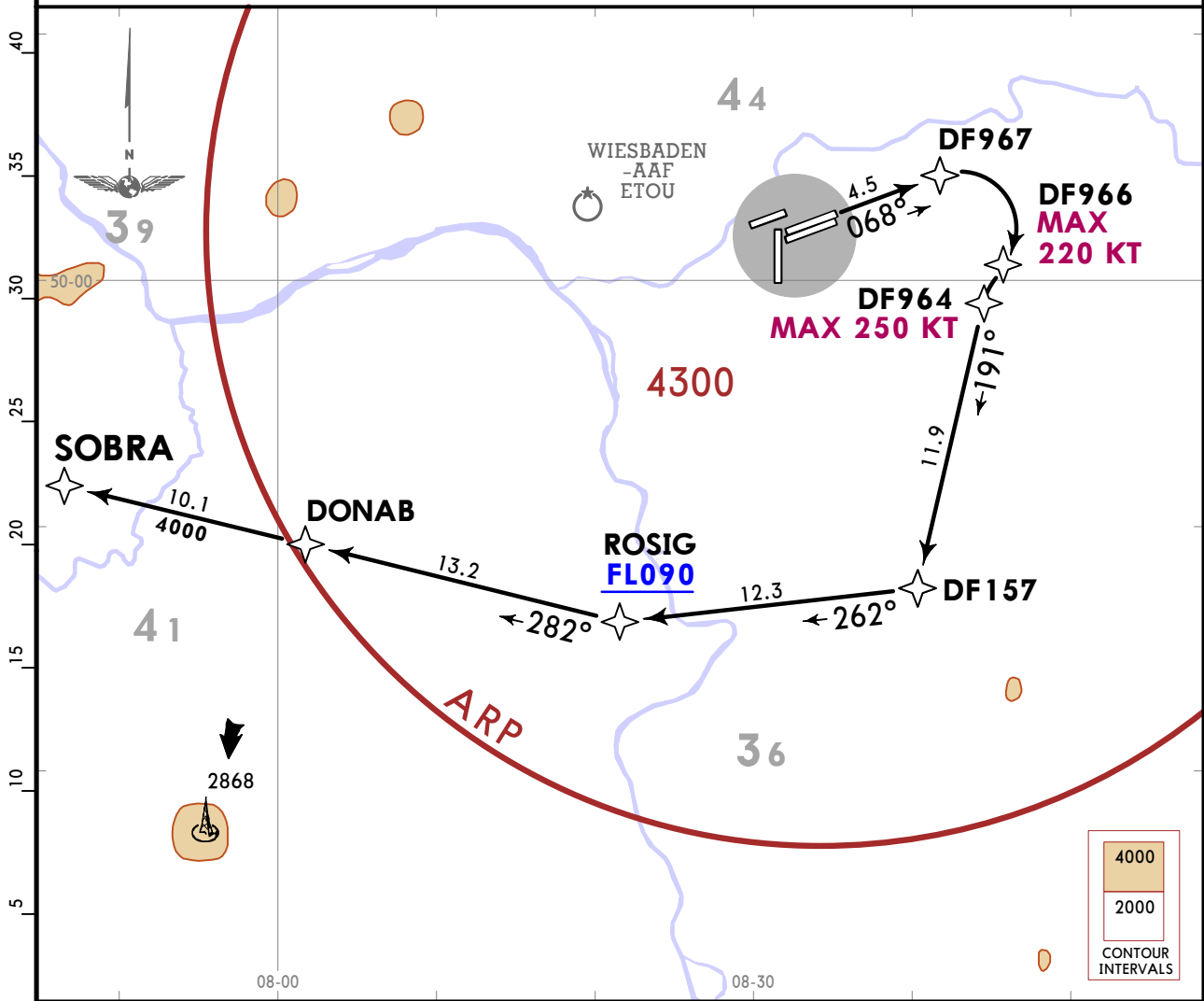
JEPPESEN
3 NOV 23 (10-3A8)

FRANKFURT/MAIN, GERMANY
RNAV SID

*LANGEN Radar (APP) 136.130	Apt Elev 363	Trans alt: 5000
		RNP-1/A-RNP, RF leg required. GPS required.
1. Contact LANGEN Radar when advised by Tower. 2. WARNING: Close-in obstacles. 3. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 4. For operational RWY use concept refer to 10-1P pages.		

**SOBRA 1X [SOBR1X]
RNP DEPARTURE
(RWY 07C)**

FOR FLIGHTS INTENDING TO PROCEED
AT OR ABOVE FL250 VIA AIRWAYS Y-180/Y-181
FLIGHTS HAVE TO BE ABLE TO CROSS RUDOT AT OR ABOVE FL240
IF UNABLE TO COMPLY FPL SHALL READ
RUDOT FL220 - Y-180 - NISIV - UY-180 - DIK RFL
**SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C**



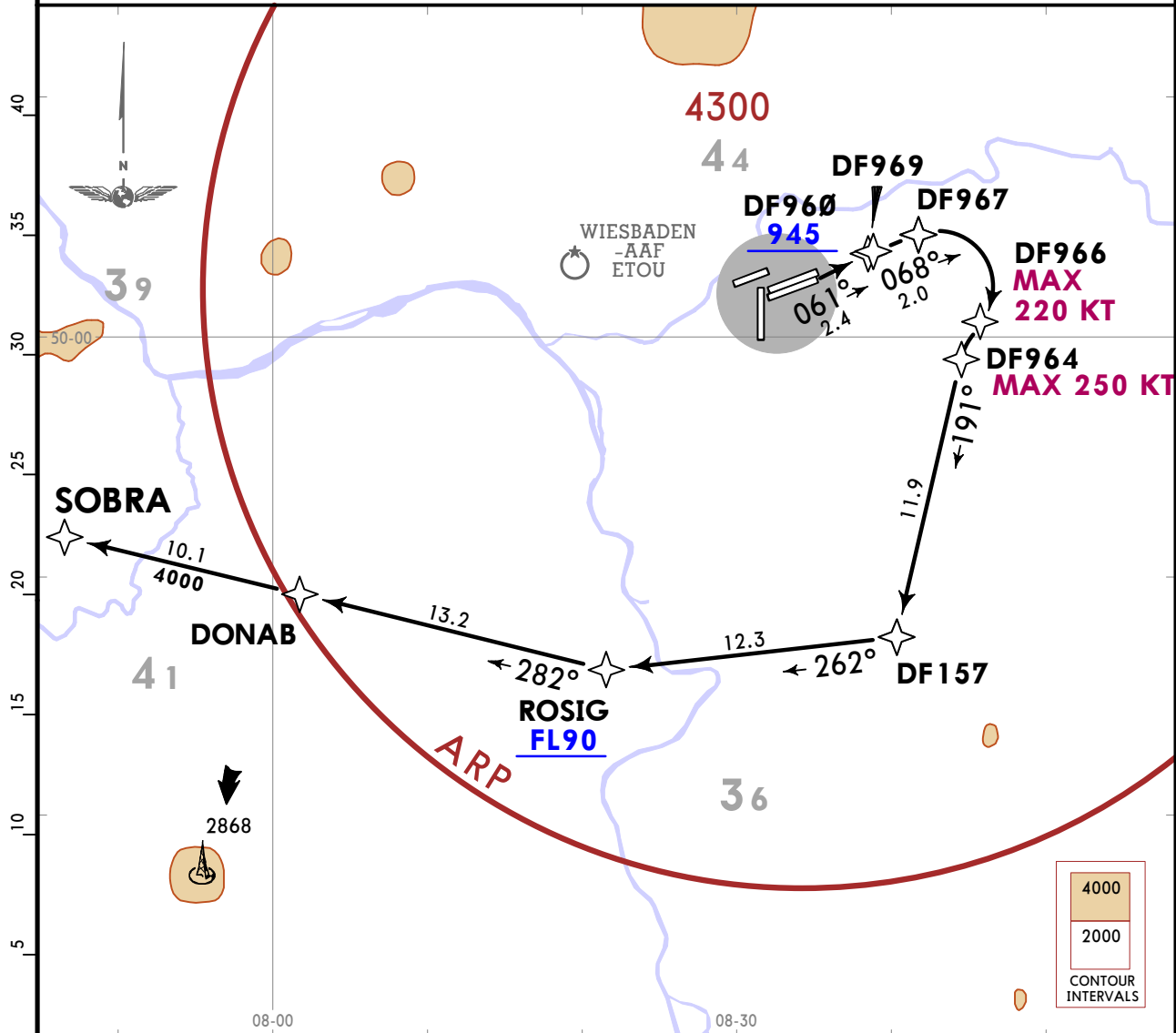
This SID requires a minimum climb gradient of 3.9% (240 FT/NM) until passing FL090, due to airspace structure.	Gnd speed-KT	75	100	150	200	250	300
	3.9% V/V (fpm)	296	395	592	790	987	1185
If unable to comply advise EDDF DELIVERY prior to start-up.							
Initial climb clearance 4000							
ROUTING							
On 068° track to DF967, turn RIGHT to DF966, turn LEFT to DF964, to DF157, to ROSIG, to DONAB, to SOBRA.							

EDDF/FRA
FRANKFURT/MAIN

JEPPESEN FRANKFURT/MAIN, GERMANY
17 MAY 19 (10-3A9) Eff 23 May RNAV SID

*LANGEN Radar 136.130	Apt Elev 364	Trans alt: 5000 1. RNP-1/A-RNP, RF leg required. 2. GPS required. 3. Contact LANGEN Radar when advised by Tower. 4. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 5. For operational RWY use concept refer to 10-1P pages.
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SOBRA 1Y [SOBR1Y]
RWY 07R RNP DEPARTURE
FOR FLIGHTS INTENDING TO PROCEED
AT OR ABOVE FL250 VIA AIRWAYS Y-180/Y-181
FLIGHTS HAVE TO BE ABLE TO CROSS RUDOT AT OR ABOVE FL240
IF UNABLE TO COMPLY FPL SHALL READ
RUDOT FL220 - Y-180 - NISIV - UY-180 - DIK RFL
SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



This SID requires a minimum climb gradient of 240 per NM (3.9%) until passing FL90, due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
240 per NM	300	400	600	800	1000	1200

If unable to comply advise EDDF DELIVERY prior to start-up.

Initial climb clearance 4000

ROUTING

On 061° track to DF960, turn RIGHT to DF969, to DF967, turn RIGHT to DF966, turn LEFT to DF964, to DF157, to ROSIG, to DONAB, to SOBRA.

EDDF/FRA
FRANKFURT/MAIN

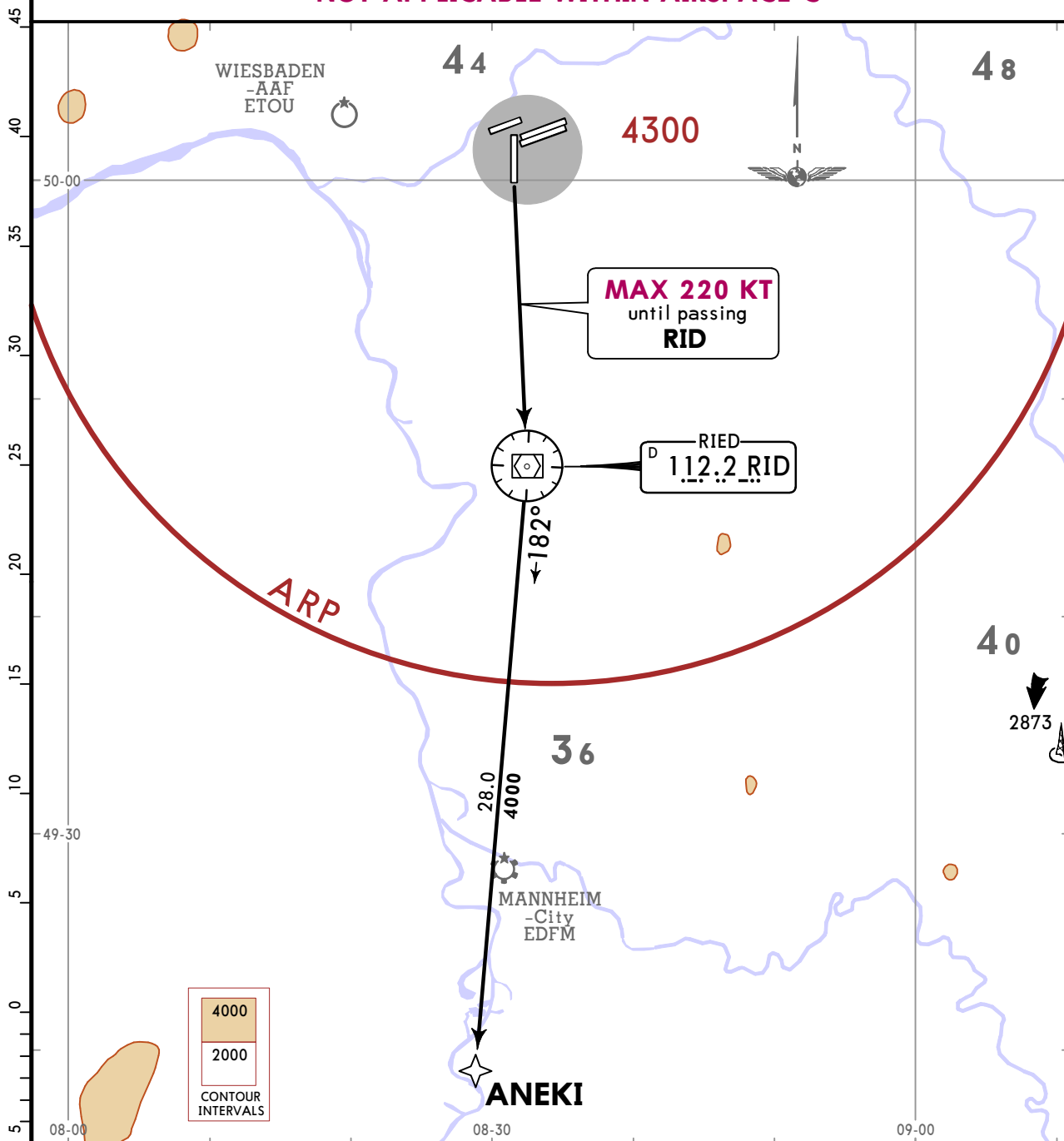
JEPPESEN FRANKFURT/MAIN, GERMANY
29 OCT 21 (10-3B) Eff 4 Nov RNAV SID

*LANGEN Radar 136.130	Apt Elev 364	Trans alt: 5000
		RNAV 1 or RNP 1 or RNP equivalent. GPS required. DME/DME, DME/DME/IRU not authorized.
1. Contact LANGEN Radar when advised by Tower. 2. WARNING: Close-in obstacles. 3. Wind shears and increased turbulences must be EXPECTED when winds strong. 4. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 5. For operational RWY use concept refer to 10-1P pages. 6. Do not turn before DER.		

ANEKI 3A [ANEK3A] RNAV DEPARTURE (RWY 18)

BY ATC

**SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C**



Initial climb clearance 4000

ROUTING

Climb on runway heading to 800, direct to RID, to ANEKI.

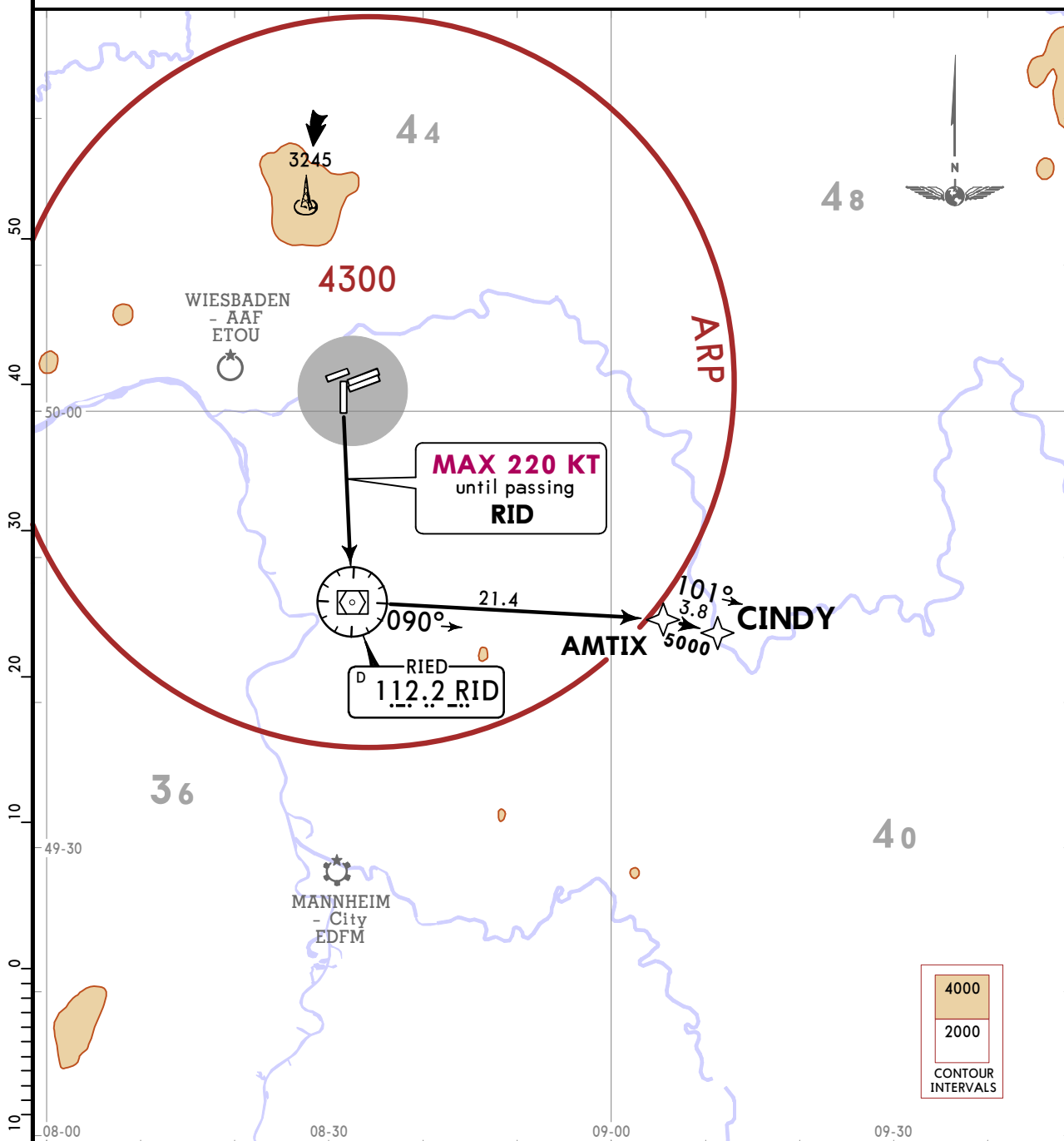
EDDF/FRA
FRANKFURT/MAIN

JEPPESEN FRANKFURT/MAIN, GERMANY
29 OCT 21 **10-3C** **Eff 4 Nov** **RNAV SID**

*LANGEN Radar 136.130	Apt Elev 364	Trans alt: 5000
		RNAV 1 or RNP 1 or RNP equivalent. GPS required. DME/DME, DME/DME/IRU not authorized.
<ol style="list-style-type: none"> Contact LANGEN Radar when advised by Tower. WARNING: Close-in obstacles. Wind shears and increased turbulences must be EXPECTED when winds strong. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. For operational RWY use concept refer to 10-1P pages. Do not turn before DER. 		

CINDY 2A [CIND2A]
RNAV DEPARTURE
(RWY 18)
BY ATC

SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



Initial climb clearance 4000

ROUTING

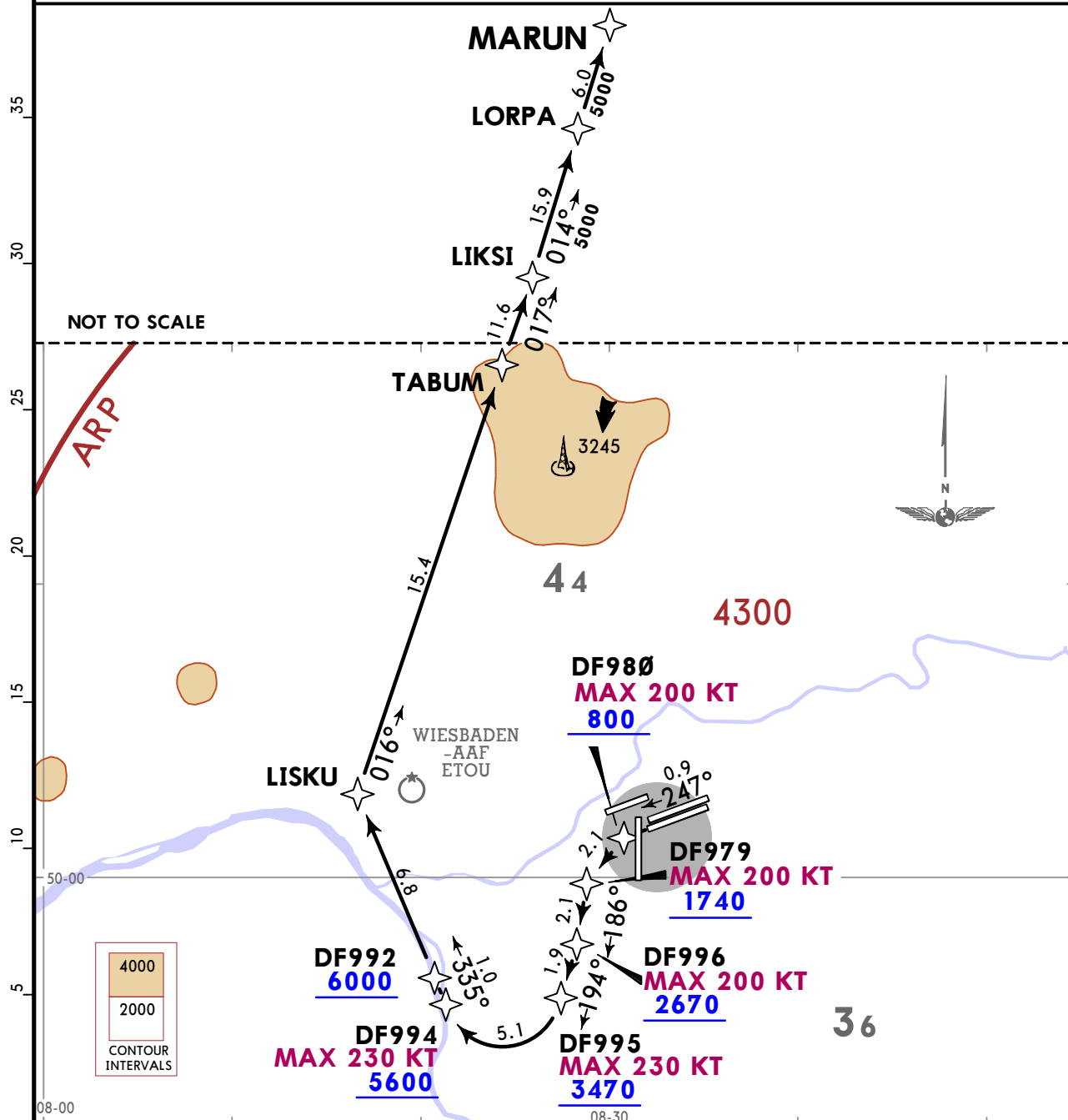
Climb on runway heading to 800, direct to RID, to AMTIX, to CINDY.

EDDF/FRA
FRANKFURT/MAIN

JEPPesen FRANKFURT/MAIN, GERMANY
9 JUL 21 (10-3C1) Eff 15 Jul RNAV SID

*LANGEN Radar 120.155	Apt Elev 364	Trans alt: 5000 1. RNP 1/A-RNP required. 2. RF required. 3. GPS required. 4. Contact LANGEN Radar when advised by Tower. 5. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 6. For operational RWY use concept refer to 10-1P pages.
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MARUN 3K [MARU3K]
RWY 25L RNP DEPARTURE
SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



This SID requires minimum climb gradients of 520 per NM (8.5%) up to 800, due to operational requirements, then 445 per NM (7.3%) up to 2670, due to operational requirements, then 415 per NM (6.8%) up to 6000, due to operational requirements.

Gnd speed-KT	75	100	150	200	250	300
415 per NM	519	692	1038	1383	1729	2075
445 per NM	556	742	1113	1483	1854	2225
520 per NM	650	867	1300	1733	2167	2600

Initial climb clearance **FL70**

ROUTING

DF980 (K200-; 800+) - DF979 (K200-; 1740+) - DF996 (K200-; 2670+) - DF995 (K230-; 3470+) - DF994 (K230-; 5600+) - DF992 (6000+) - LISKU - TABUM - LIKSI - LORPA - MARUN.

EDDF/FRA
FRANKFURT/MAIN

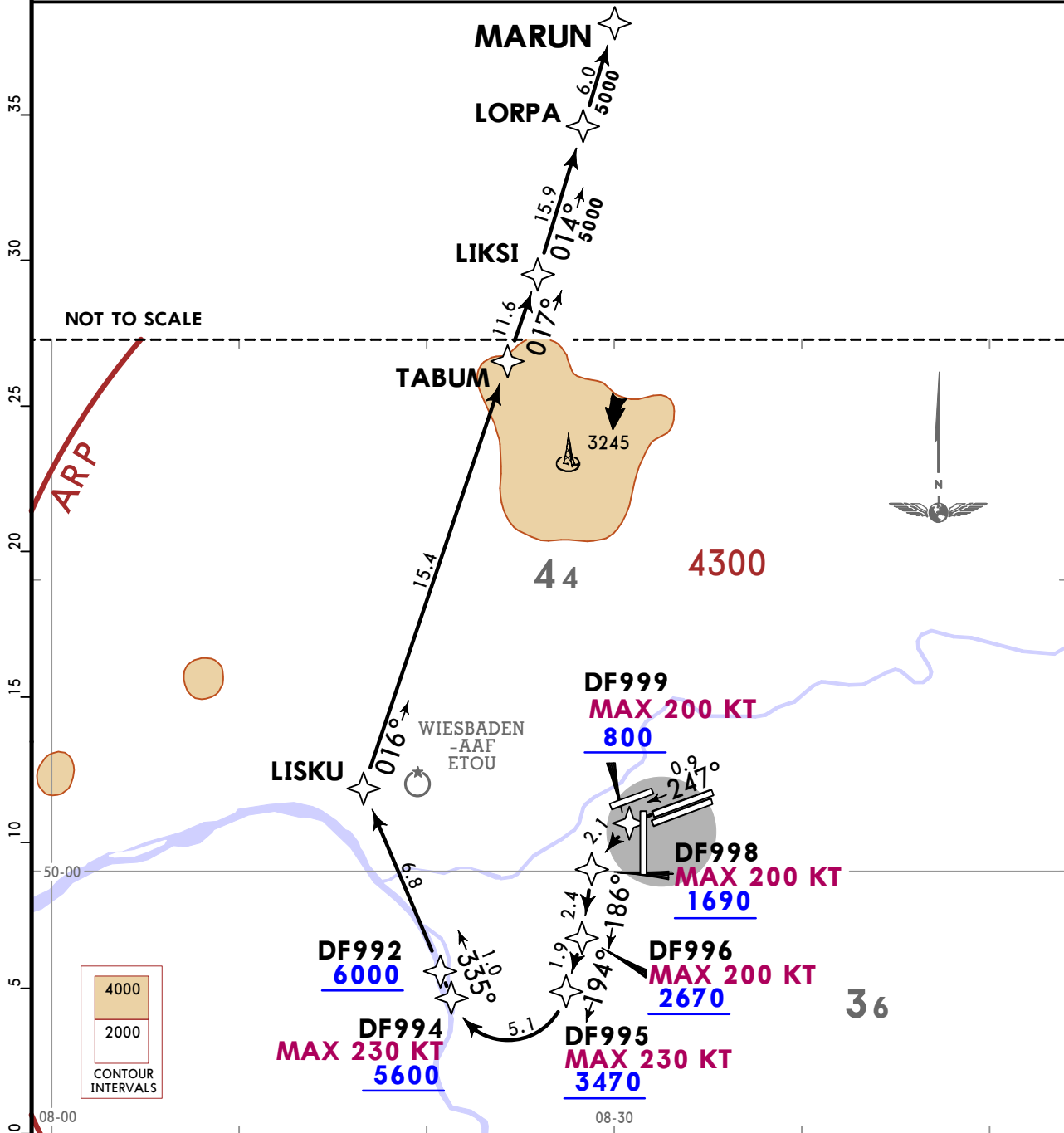
JEPPESSEN FRANKFURT/MAIN, GERMANY
9 JUL 21 **10-3C2** **Eff 15 Jul** **RNAV SID**

*LANGEN
Radar
120.155

Apt Elev
364

Trans alt: 5000
1. RNP 1/A-RNP required. 2. RF required. 3. GPS required.
4. Contact LANGEN Radar when advised by Tower.
5. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY.
6. For operational RWY use concept refer to 10-1P pages.

MARUN 3W [MARU3W]
RWY 25C RNP DEPARTURE
SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



This SID requires minimum climb gradients of
520 per NM (8.5%) up to 800, due to operational requirements, then
415 per NM (6.8%) up to 6000, due to operational requirements.

Gnd speed-KT	75	100	150	200	250	300
415 per NM	519	692	1038	1383	1729	2075
520 per NM	650	867	1300	1733	2167	2600

Initial climb clearance FL70

ROUTING

DF999 (K200-; 800+) - DF998 (K200-; 1690+) - DF996 (K200-; 2670+) - DF995 (K230-; 3470+) -
DF994 (K230-; 5600+) - DF992 (6000+) - LISKU - TABUM - LIKSI - LORPA - MARUN.

FRANKFURT/MAIN, GERMANY
RNAV SID

EDDF/FRA
FRANKFURT/MAIN
 9 JUL 21
JEPPESSEN
10-3C3
EFF 15 JUL

*LANGEN Radar 120.155	Apt Elev 364	Trans alt: 5000 1. RNP 1/A-RNP required. 2. RF required. 3. GPS required. 4. Contact LANGEN Radar when advised by Tower. 5. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY . 6. For operational RWY use concept refer to 10-IP pages.
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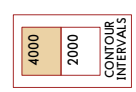
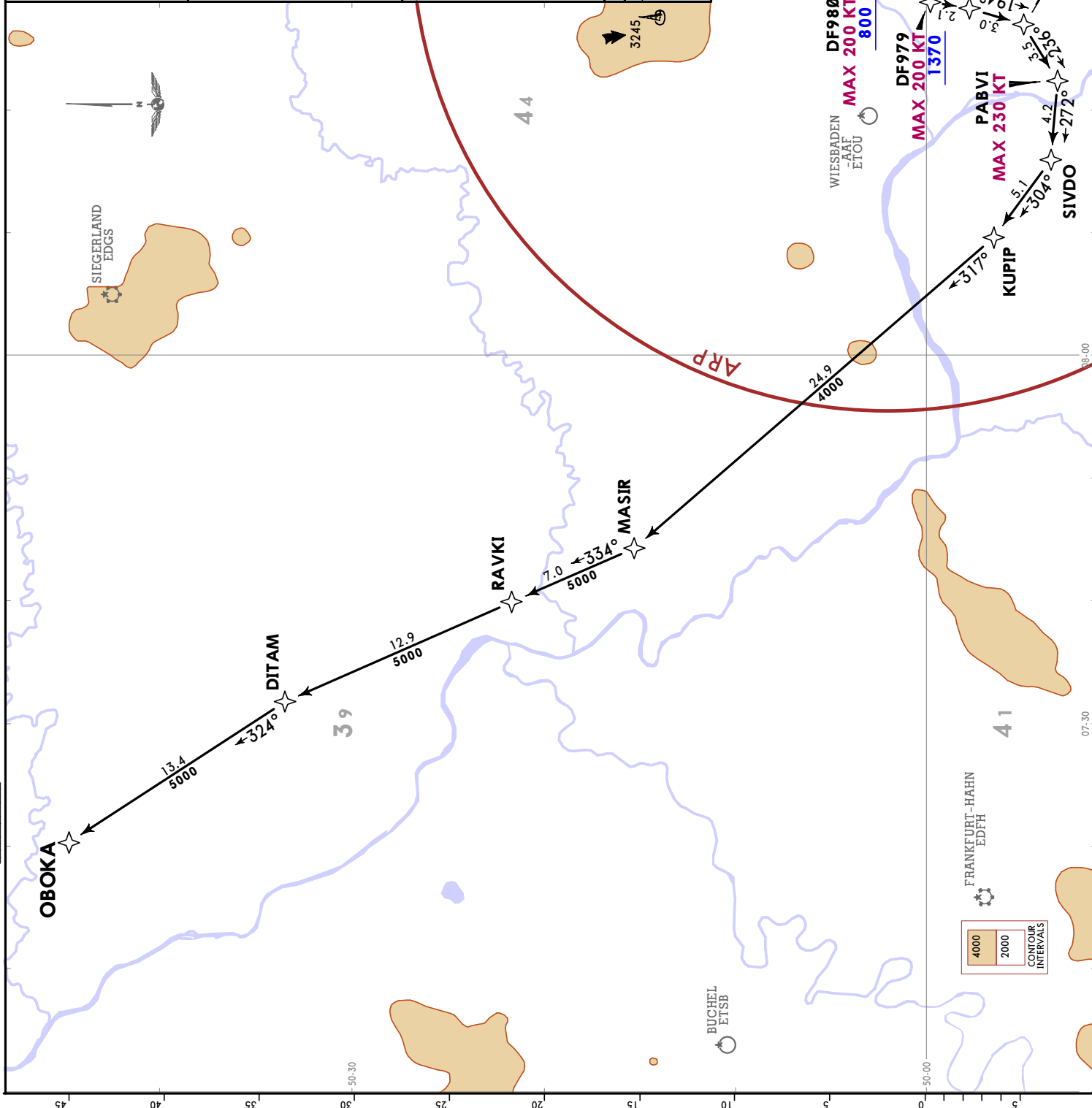
OBOKA 3K [OBOK3K]
RWY 25L RNP DEPARTURE
 FLIGHTS HAVE TO BE ABLE TO CROSS OBOKA AT OR ABOVE FL170 EXCEPT FLIGHTS TO EDDK IF UNABLE TO COMPLY
ADVISE EDDF DELIVERY PRIOR TO START-UP
SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C

This SID requires minimum climb gradients of 520 per NM (8.5%) up to 800, due to operational requirements, then 270 per NM (4.4%) up to 1930, due to airspace structure, then 250 per NM (4.1%) up to 2500, due to airspace structure.

Grd speed-KT	75	100	150	200	250	300
250 per NM	313	417	625	833	1042	1250
270 per NM	338	450	675	900	1125	1350
520 per NM	650	867	1300	1733	2167	2600

Initial climb clearance FL70

ROUTING
 DF980 (K200+; 800+) - DF979 (K200+; 1370+) - DF996 (K200+; 1930+) - DF172 (K230+; 2670+) - PABVI (K230-) - SIVDO - KUIPIP - MASIR - RAVKI - DITAM - OBOKA.



JEPPESEN FRANKFURT/MAIN, GERMANY
EDDF/FRA FRANKFURT/MAIN
 9 JUL 21 (10-3C4) **Eff 15 JUL** **RNAV SID**

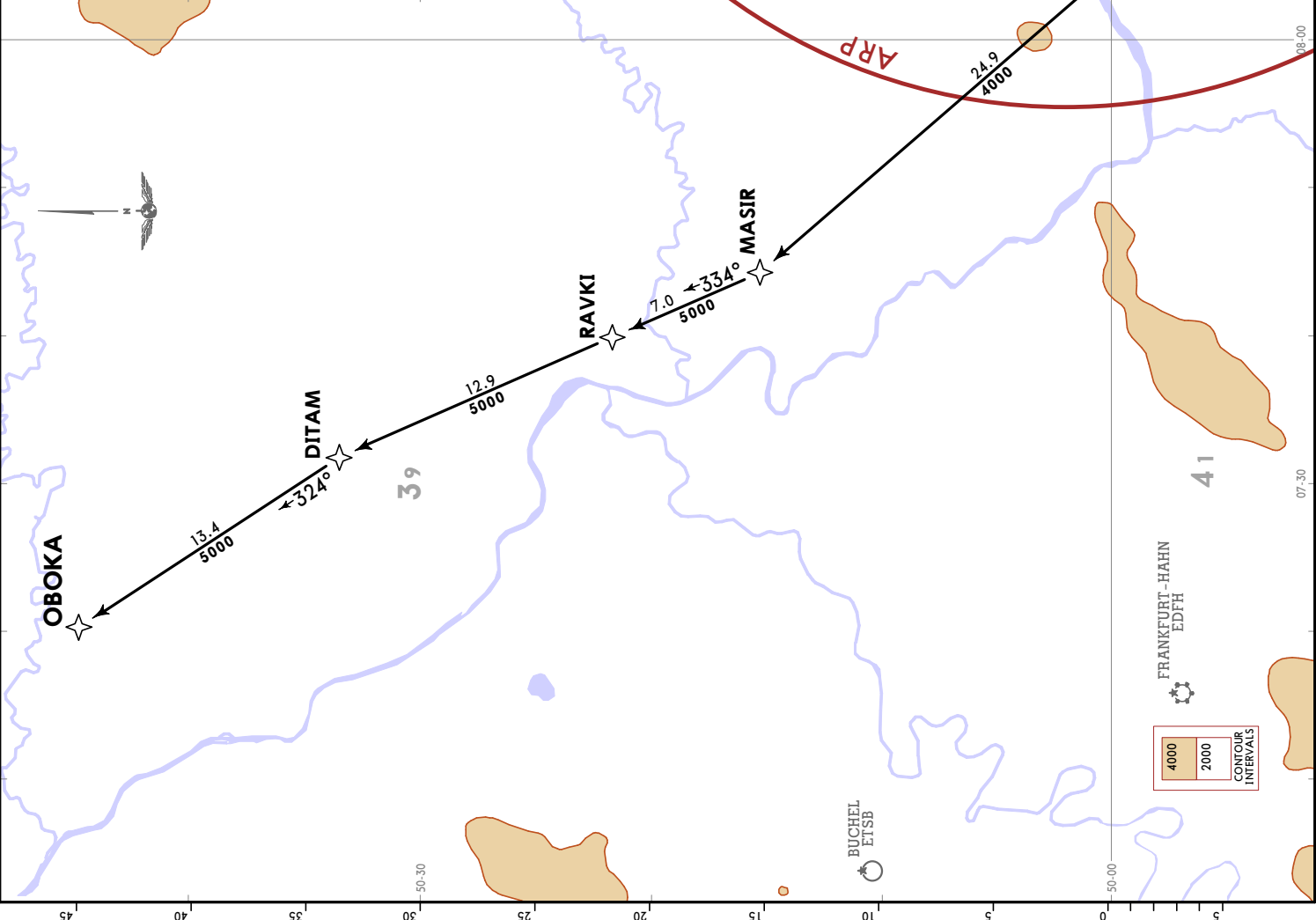
Trans alt: 5000
 1. RNP 1/A-RNP required. 2. RF required.
 3. GPS required.
 4. Contact LANGEN Radar when advised by Tower.
 5. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY.
 6. For operational RWY use concept refer to 10-1P pages.

OBOKA 3W [OBOK3W]
RWY 25C RNP DEPARTURE
 FLIGHTS HAVE TO BE ABLE TO CROSS OBOKA AT OR ABOVE FL170 EXCEPT FLIGHTS TO EDDM
 IF UNABLE TO COMPLY ADVISE EDDF DELIVERY PRIOR TO START-UP
SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C

This SID requires minimum climb gradients of 520 per NM (8.5%) up to 800, due to operational requirements, then 250 per NM (4.1%) up to 2500, due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
250 per NM	313	417	625	833	1042	1250
520 per NM	650	867	1300	1733	2167	2600

ROUTING
 Initial climb clearance **FL70**
 DF999 (K200-; 800+)- DF998 (K200-; 1340+)- DF996 (K200-; 1930+)- DF172 (K230-; 2670+)-
 PABVI (K230-)- SIVDO - KUPIP - MASIR - RAVKI - DITAM - OBOKA.



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 CHANGES: RNAV SID renumbered & revised.

EDDF / FRA
FRANKFURT / MAIN

JEPPESSEN FRANKFURT / MAIN, GERMANY
7 JUL 23 (10-3C5) Eff 13 Jul **RNAV SID**

**SULUS 3A [SULU3A]
RNAV DEPARTURE
(RWY 18)**

BY ATC

**SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC**
NOT APPLICABLE WITHIN AIRSPACE C

Trans alt: 5000
RNAV 1 or RNP 1 or RNP equivalent.
GPS required.
DME/DME, DME/DME/IRU not authorized.

1. Contact LANGEN Radar when advised by Tower.

2. WARNING: Close-in obstacles.

3. Wind shears and increased turbulences must be EXPECTED when winds strong.

4. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY.

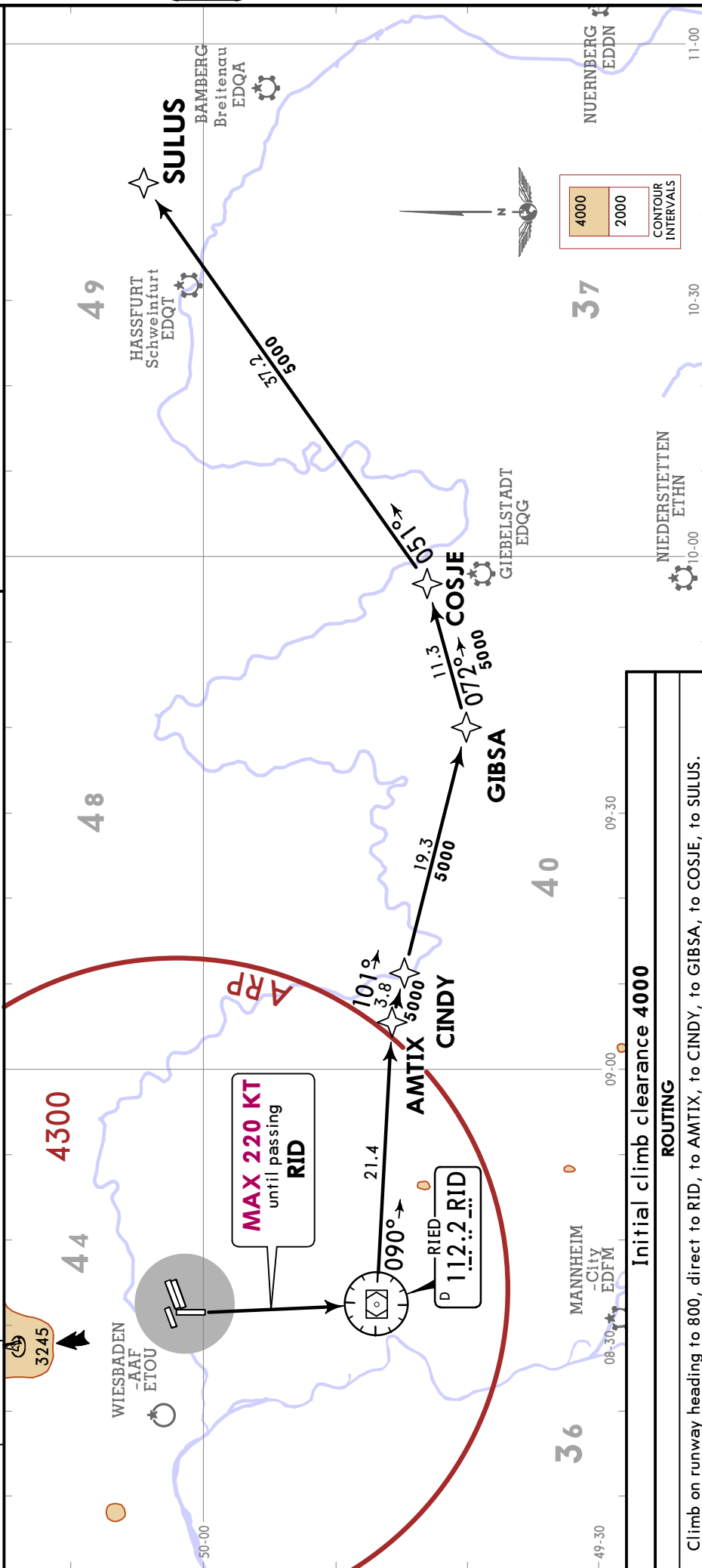
5. For operational RWY use concept refer to 10-1P pages.

6. Do not turn before DER.

Apt Elev
363

*LANGEN
Radar
136.130

10 0 10 20 30 40 50



Initial climb clearance 4000

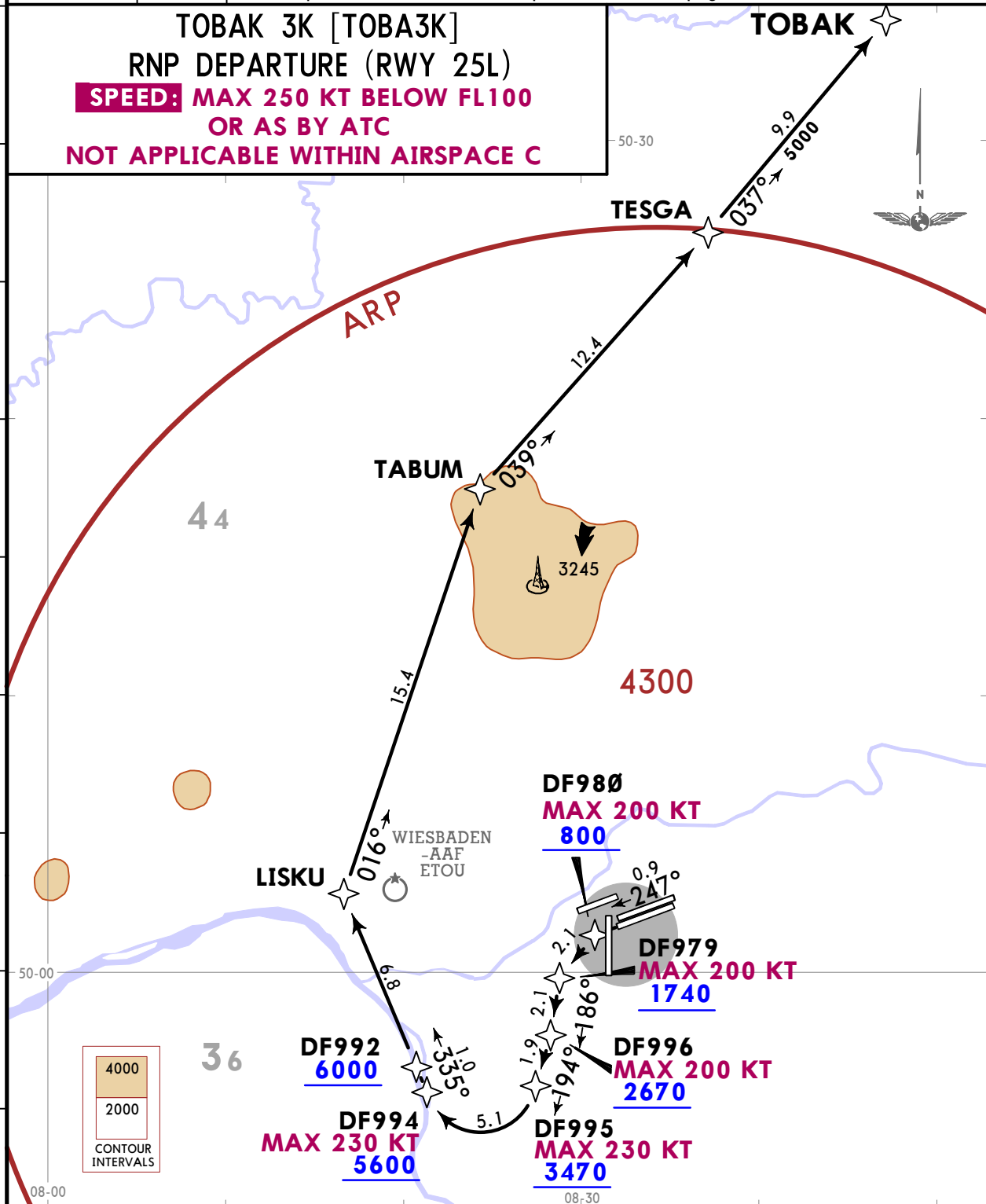
ROUTING

Climb on runway heading to 800, direct to RID, to AMTIX, to CINDY, to GIBSA, to COSJE, to SULLUS.

EDDF/FRA
FRANKFURT/MAIN

JEPPESSEN FRANKFURT/MAIN, GERMANY
7 JUL 23 **10-3C6** **Eff 13 Jul** **RNAV SID**

*LANGEN Radar 120.155	Apt Elev 363	Trans alt: 5000
		RNP 1/A-RNP required RF required GPS required
1. Contact LANGEN Radar when advised by Tower. 2. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 3. For operational RWY use concept refer to 10-1P pages.		



This SID requires minimum climb gradients of
 520 per NM (8.5%) up to 800, due to operational requirements, then
 445 per NM (7.3%) up to 2670, due to operational requirements, then
 415 per NM (6.8%) up to 6000, due to operational requirements.

Gnd speed-KT	75	100	150	200	250	300
415 per NM	519	692	1038	1383	1729	2075
445 per NM	556	742	1113	1483	1854	2225
520 per NM	650	867	1300	1733	2167	2600

Initial climb clearance FL070
ROUTING
 DF980 (K200-; 800+) - DF979 (K200-; 1740+) - DF996 (K200-; 2670+) - DF995 (K230-; 3470+) -
 DF994 (K230-; 5600+) - DF992 (6000+) - LISKU - TABUM - TESGA - TOBAK.

EDDF/FRA
FRANKFURT/MAIN

7 JUL 23

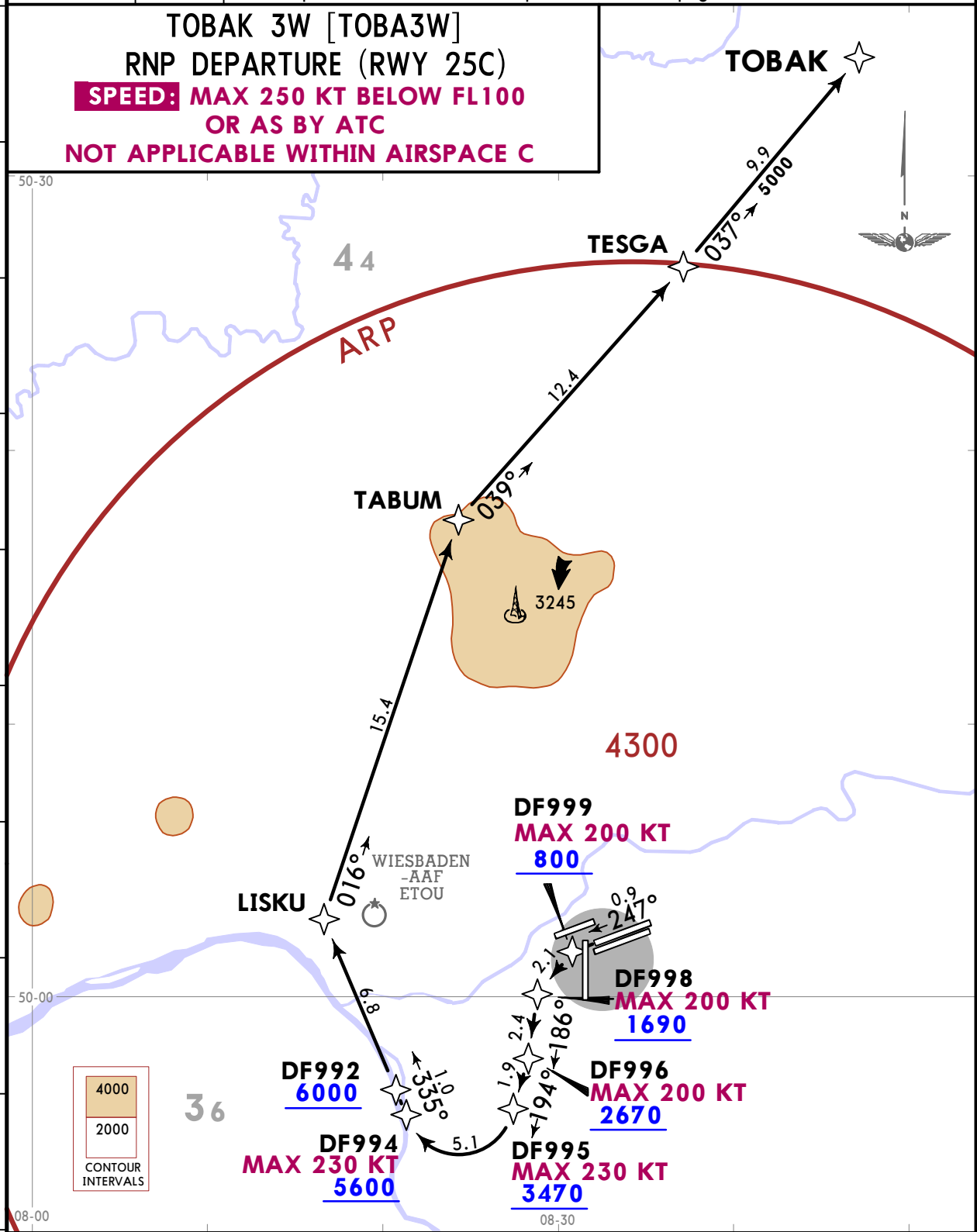
10-3C7

Eff 13 Jul

RNAV SID

JEPPESSEN FRANKFURT/MAIN, GERMANY

*LANGEN Radar 120.155	Apt Elev 363	Trans alt: 5000
		RNP 1/A-RNP required RF required GPS required
1. Contact LANGEN Radar when advised by Tower. 2. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 3. For operational RWY use concept refer to 10-1P pages.		



This SID requires minimum climb gradients of
 of
 520 per NM (8.5%) up to 800, due to operational requirements, then
 415 per NM (6.8%) up to 6000, due to operational requirements.

Gnd speed-KT	75	100	150	200	250	300
415 per NM	519	692	1038	1383	1729	2075
520 per NM	650	867	1300	1733	2167	2600

Initial climb clearance FL070

ROUTING

DF999 (K200-; 800+) - DF998 (K200-; 1690+) - DF996 (K200-; 2670+) - DF995 (K230-; 3470+) - DF994 (K230-; 5600+) - DF992 (6000+) - LISKU - TABUM - TESGA - TOBAK.

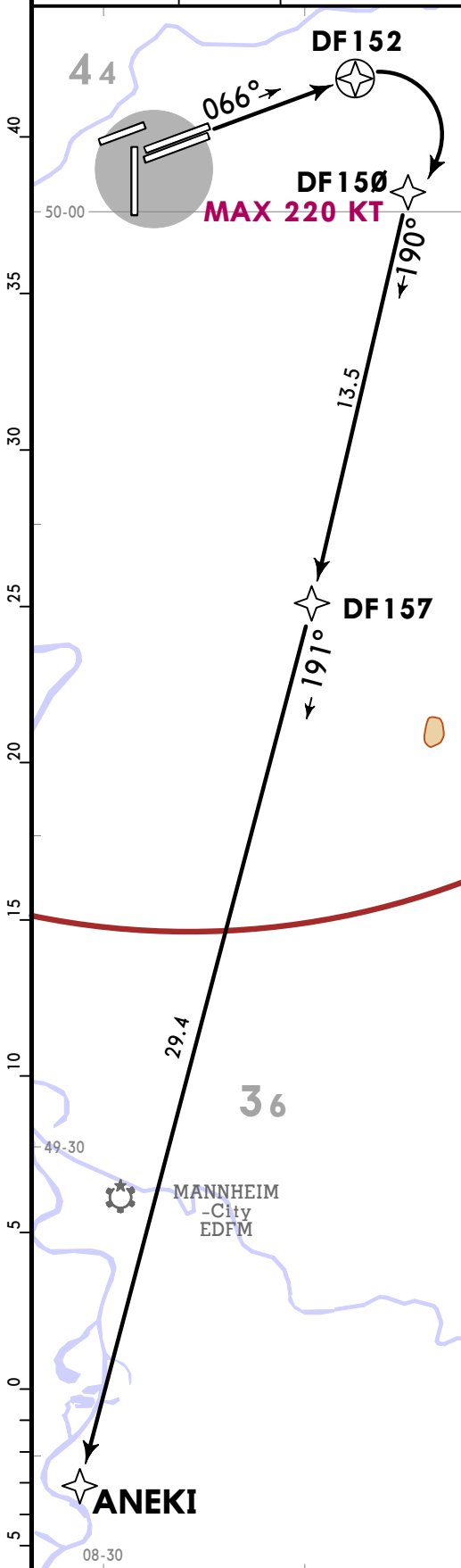
EDDF/FRA
FRANKFURT/MAIN

JEPPESEN FRANKFURT/MAIN, GERMANY
7 JUL 23 (10-3C8) Eff 13 Jul

RNAV SID

*LANGEN Radar 136.130	Apt Elev 363	Trans alt: 5000
		RNAV 1 required GPS, DME/DME/IRU DME/DME without IRU not authorized
1. Contact LANGEN Radar when advised by Tower. 2. RADAR required. 3. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 4. For operational RWY use concept refer to 10-1P pages. 5. WARNING: Close-in obstacles.		

ANEKI 3D [ANEK3D]
RNAV DEPARTURE (RWYS 07C/R)
SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



Initial climb clearance **4000**

ROUTING

(820+) - DF152 - DF150 (K220-) - DF157 - ANEKI.

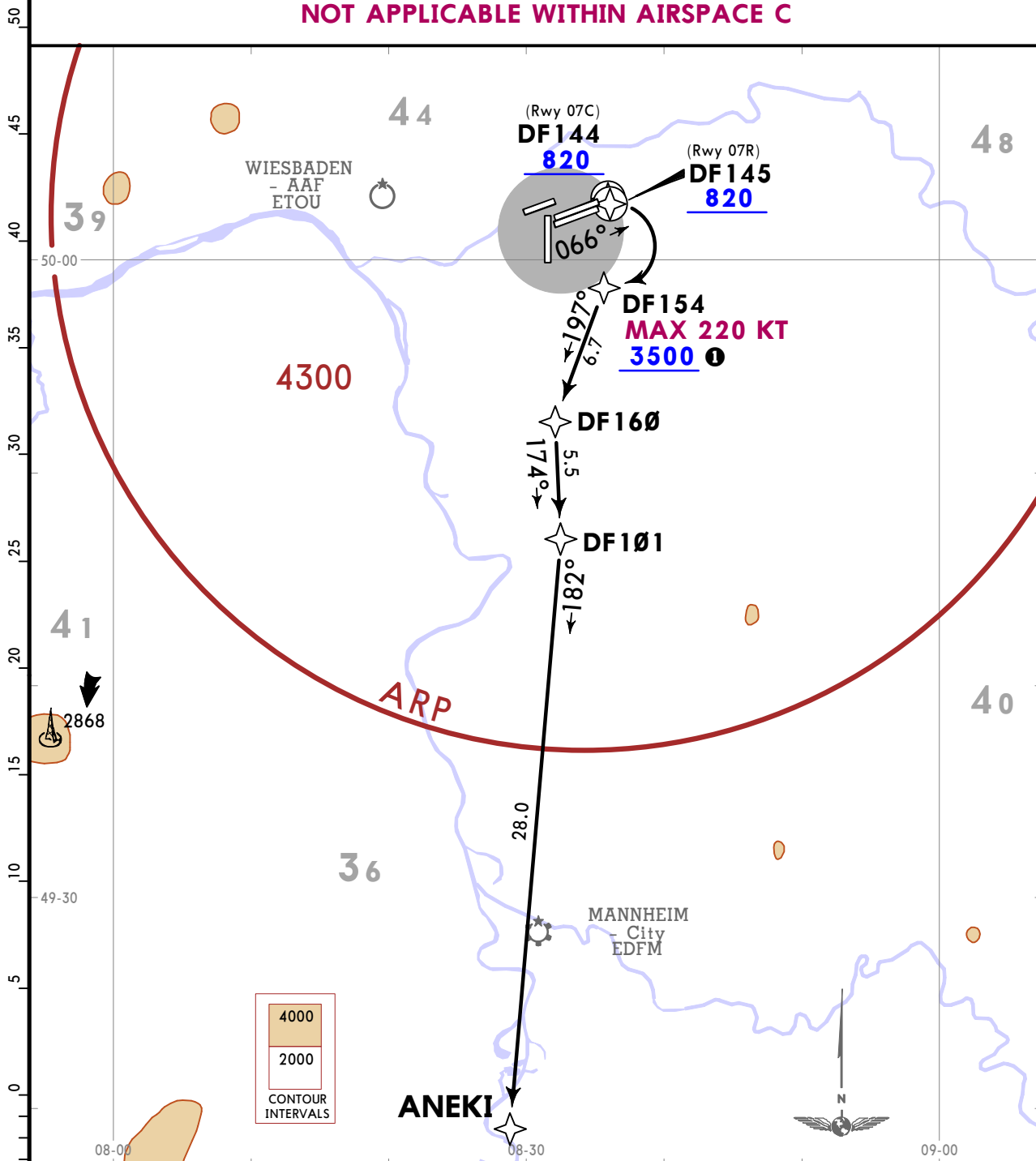
EDDF/FRA
FRANKFURT/MAIN

JEPPESSEN FRANKFURT/MAIN, GERMANY
4 AUG 23 **10-3C9** **Eff 10 Aug** **RNAV SID**

*LANGEN Radar 136.130	Apt Elev 363	Trans alt: 5000
		RNAV 1 required GPS, DME/DME/IRU DME/DME without IRU not authorized
1. Contact LANGEN Radar when advised by Tower. 2. RADAR required. 3. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 4. For operational RWY use concept refer to 10-1P pages. 5. WARNING: Close-in obstacles.		

ANEKI 5E [ANEK5E]
RNAV DEPARTURE
(RWYS 07C/R)

SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C

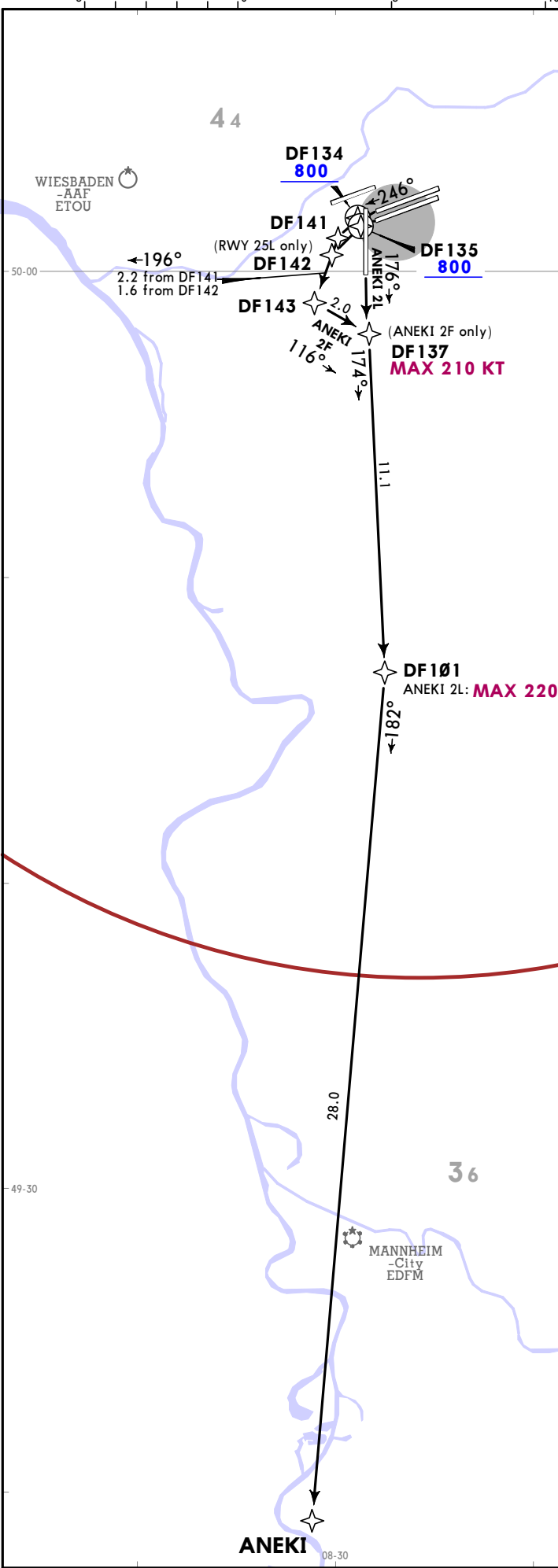


Initial climb clearance 4000	
RWY	ROUTING
07C	DF144 (820+) - DF154 (K220-; 3500+ ①) - DF160 - DF101 - ANEKI.
07R	DF145 (820+) - DF154 (K220-; 3500+ ①) - DF160 - DF101 - ANEKI.

① If unable to comply, advise EDDF DELIVERY prior to start-up.

CHANGES: Chart completely revised.

EDDF / FRA
FRANKFURT / MAIN
JEPPESSEN
10-3C10 4 AUG 23
Eff 10 Aug



*LANGEN Radar 136.130	Apt Elev 363	Trans alt: 5000 RNAV 1 required GPS, DME/DME/IRU DME/DME without IRU not authorized
<ol style="list-style-type: none"> Contact LANGEN Radar when advised by Tower. RADAR required. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. RWY 18: WARNING: Close-in obstacles. RWY 18: WARNING: Wind shears and increased turbulences must be expected when strong winds. For operational RWY use concept refer to 10-1P pages. 		

ANEKI 2F [ANEK2F]
ANEKI 2L [ANEK2L]
RNAV DEPARTURES
(RWYS 18, 25L/C)

SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C

ANEKI 2F: Initial climb clearance 5000
ANEKI 2L: Initial climb clearance 4000

SID	RWY	ROUTING
ANEKI 2F	25L	DF135 (800+) - DF142 - DF143 - DF137 (K210-) - DF101 - ANEKI.
	25C	DF134 (800+) - DF141 - DF143 - DF137 (K210-) - DF101 - ANEKI.
ANEKI 2L	18	(800+) - DF101 (K220-) - ANEKI.

ANEKI 2F [ANEK2F]
ANEKI 2L [ANEK2L]
RNAV DEPARTURES
(RWYS 18, 25L/C)

FRANKFURT / MAIN, GERMANY
RNAV SID

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EDDF/FRA
FRANKFURT/MAIN

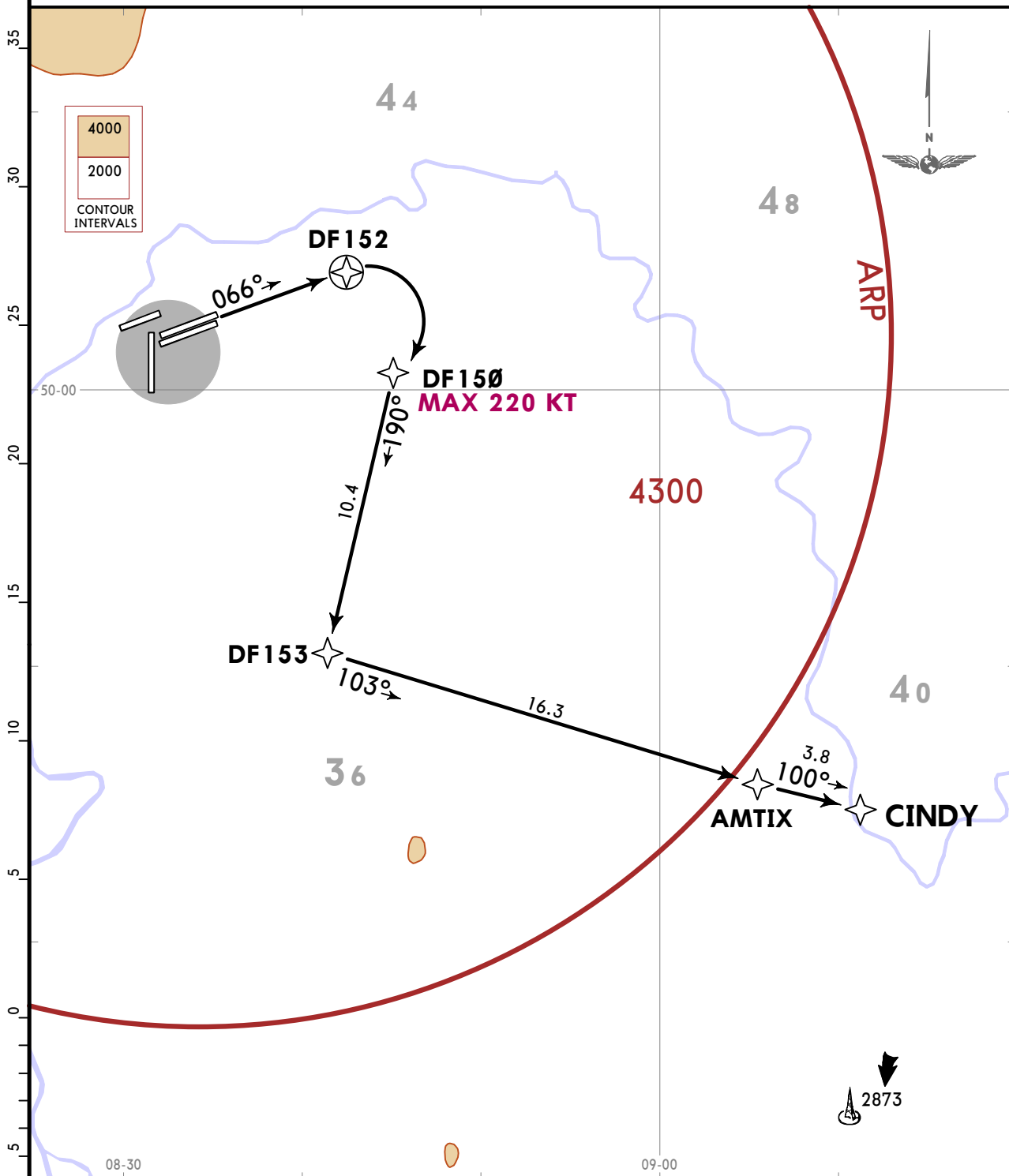
JEPPESEN FRANKFURT/MAIN, GERMANY
4 AUG 23 (10-3D) Eff 10 Aug

RNAV SID

*LANGEN Radar 136.130	Apt Elev 363	Trans alt: 5000
		RNAV 1 required GPS, DME/DME/IRU DME/DME without IRU not authorized
1. Contact LANGEN Radar when advised by Tower. 2. RADAR required. 3. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 4. For operational RWY use concept refer to 10-1P pages. 5. WARNING: Close-in obstacles.		

CINDY 2D [CIND2D]
RNAV DEPARTURE
(RWYS 07C/R)

**SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C**



4000
2000
CONTOUR INTERVALS

Initial climb clearance 4000

ROUTING

(820+) - DF152 - DF150 (K220-) - DF153 - AMTIX - CINDY.

EDDF/FRA
FRANKFURT/MAIN

4 AUG 23

10-3E

Eff 10 Aug

RNAV SID

*LANGEN Radar 136.130		Apt Elev 363	Trans alt: 5000
RNAV 1 required GPS, DME/DME/IRU DME/DME without IRU not authorized			
1. Contact LANGEN Radar when advised by Tower. 2. RADAR required.			
3. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY.			
4. For operational RWY use concept refer to 10-1P pages.			

CINDY 3F [CIND3F]
RNAV DEPARTURE
(RWYS 25L/C)

SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C

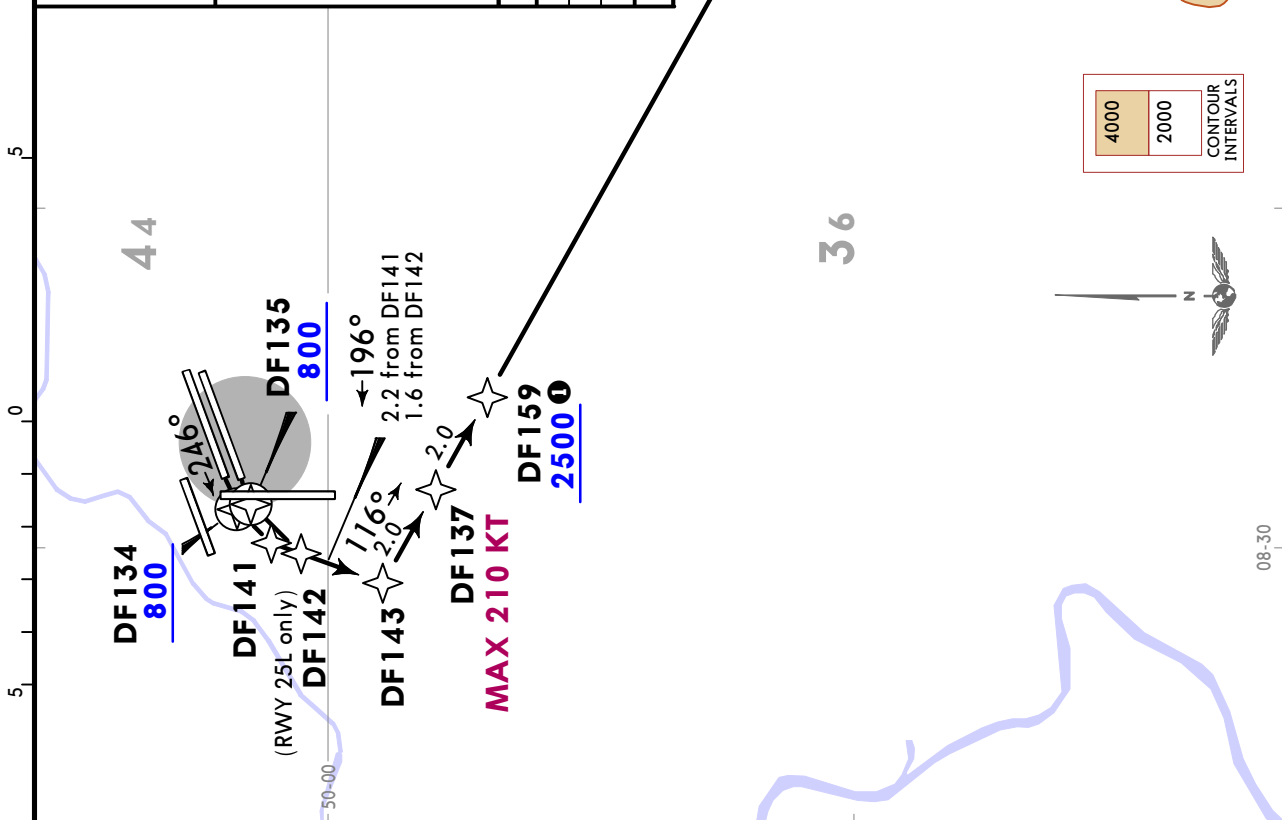
Initial climb clearance **5000**

ROUTING

25L DF135 (800+) - DF142 - DF143 - DF137 (K210-) - DF159 (2500+) - AMTIX - CINDY.

25C DF134 (800+) - DF141 - DF143 - DF137 (K210-) - DF159 (2500+) - AMTIX - CINDY.

① If unable to comply, advise EDDF DELIVERY prior to start-up.



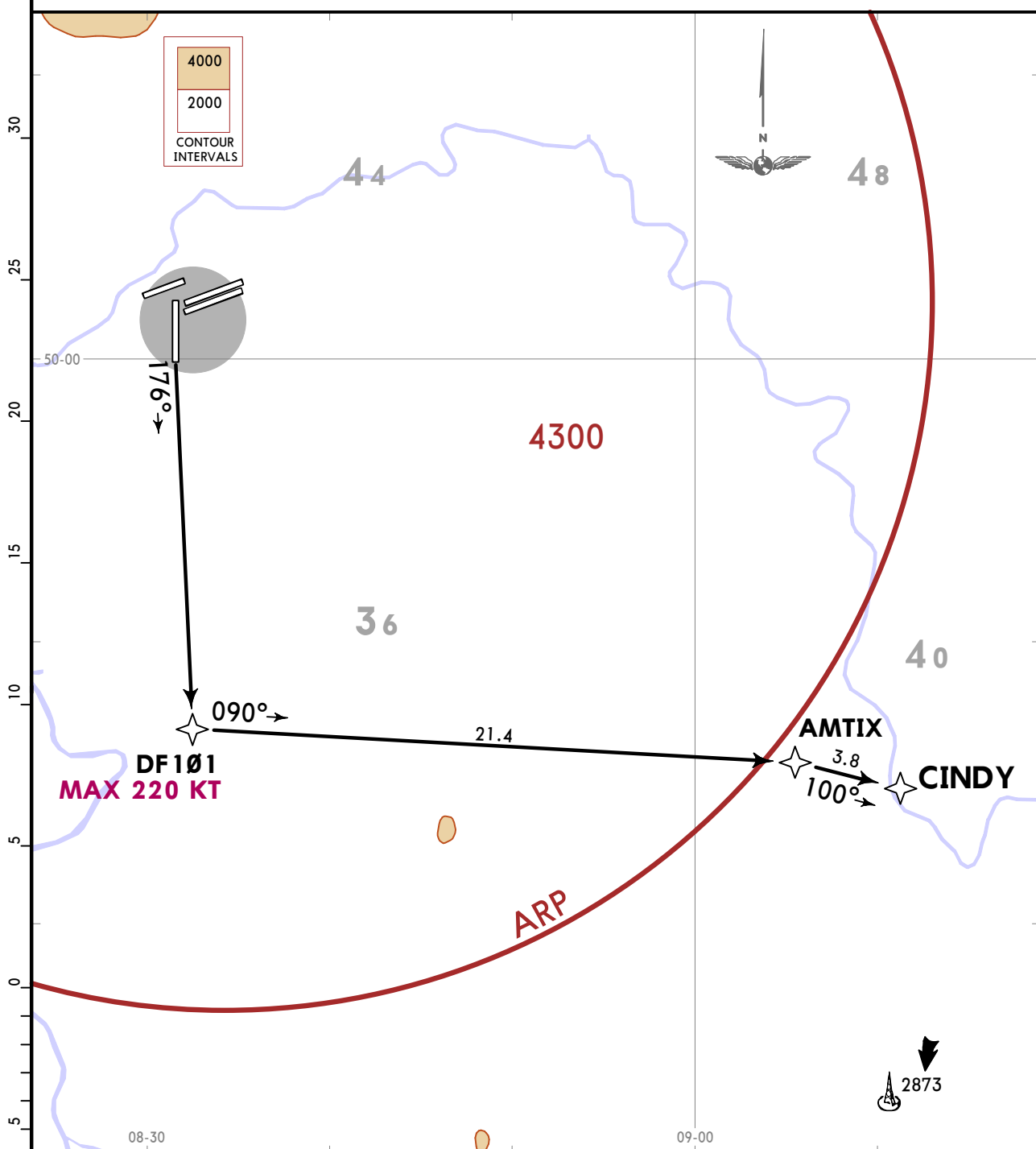
EDDF/FRA
FRANKFURT/MAIN

JEPESEN FRANKFURT/MAIN, GERMANY
22 SEP 23 (10-3E1) **RNAV SID**

*LANGEN Radar (APP) 136.130	Apt Elev 363	Trans alt: 5000
		RNAV 1 required GPS, DME/DME/IRU DME/DME without IRU not authorized
1. Contact LANGEN Radar when advised by Tower. 2. RADAR required. 3. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 4. WARNING: Close-in obstacles. 5. WARNING: Wind shears and increased turbulences must be expected when strong winds. 6. For operational RWY use concept refer to 10-1P pages.		

**CINDY 3L [CIND3L]
RNAV DEPARTURE
(RWY 18)**

**SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C**



Initial climb clearance	4000
ROUTING	
(800+) - DF101 (K220-) - AMTIX - CINDY.	

EDDF/FRA
FRANKFURT/MAIN

JEPPESEN FRANKFURT/MAIN, GERMANY
22 SEP 23 **10-3E2**

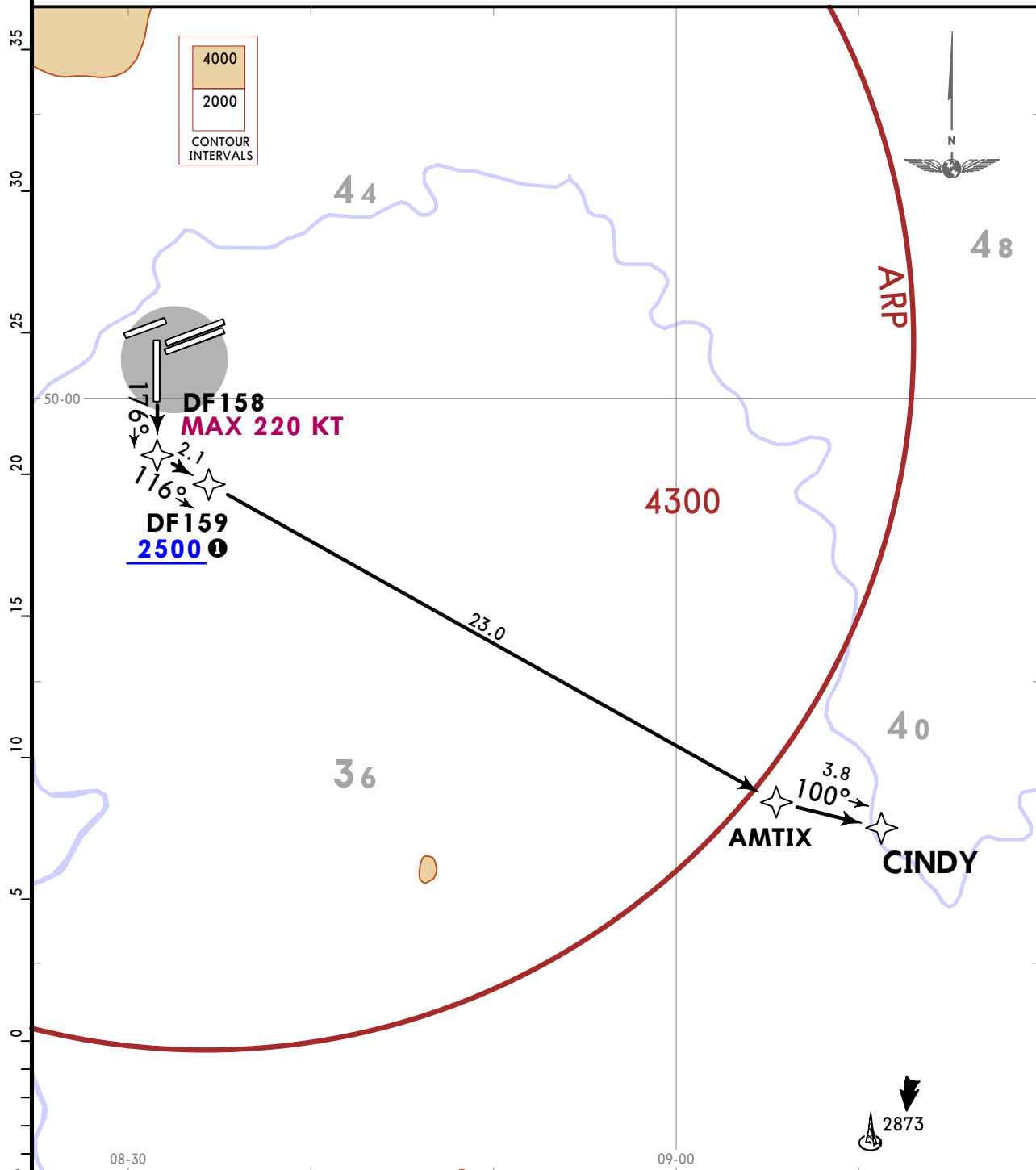
RNAV SID

*LANGEN
Radar (APP)
136.130

Apt Elev
363

Trans alt: 5000
RNAV 1 required GPS, DME/DME/IRU DME/DME without IRU not authorized
1. Contact LANGEN Radar when advised by Tower. 2. RADAR required.
3. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 4. For operational RWY use concept refer to 10-1P pages. 5. WARNING: Close-in obstacles. 6. WARNING: Wind shears and increased turbulences must be expected when strong winds. 7. Do not turn before DER.

CINDY 5S [CIND5S]
RNAV DEPARTURE (RWY 18)
SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



Initial climb clearance **4000**

ROUTING

(800+) - DF158 (K220-) - DF159 (2500+ ①) - AMTIX - CINDY.

① If unable to comply, advise EDDF DELIVERY prior to start-up and EXPECT routing via SID CINDY 3L.

EDDF/FRA
FRANKFURT/MAIN

4 AUG 23

10-3E3

Eff 10 Aug

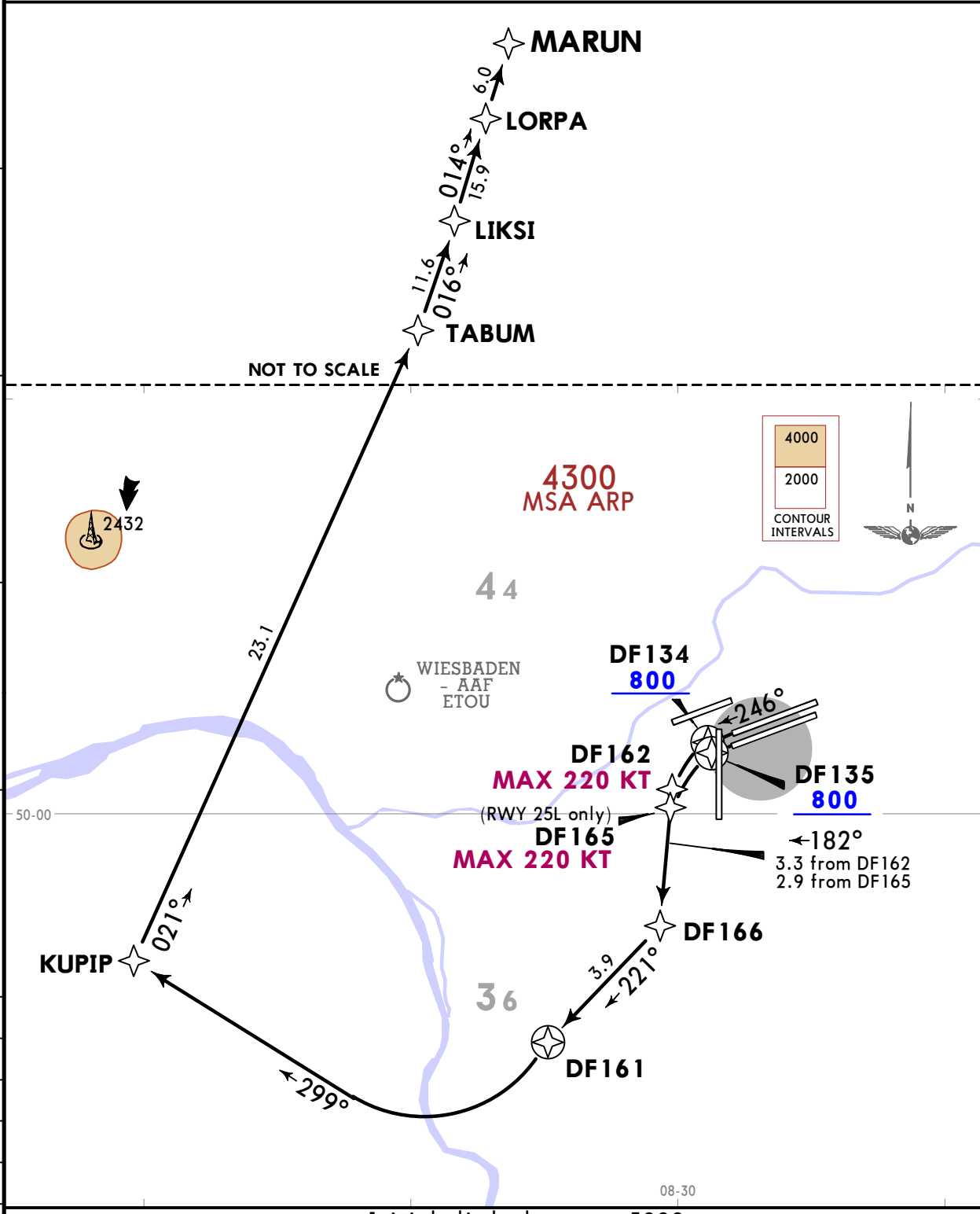
JEPPESSEN FRANKFURT/MAIN, GERMANY

RNAV SID

*LANGEN Radar 120.155	Apt Elev 363	Trans alt: 5000
		RNAV 1 required GPS, DME/DME/IRU DME/DME without IRU not authorized
1. Contact LANGEN Radar when advised by Tower. 2. RADAR required.		
3. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY.		
4. For operational RWY use concept refer to 10-1P pages.		

MARUN 1N [MARU1N]
RNAV DEPARTURE (RWYS 25L/C)
SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C

25
20
15
10
5
0
5



RWY	ROUTING
25L	DF135 (800+) - DF165 (K220-) - DF166 - DF161 - KUPIP - TABUM - LIKSI - LORPA - MARUN.
25C	DF134 (800+) - DF162 (K220-) - DF166 - DF161 - KUPIP - TABUM - LIKSI - LORPA - MARUN.

CHANGES: Chart reindexed; initial climb revised.

CHANGES: Chart reindexed.

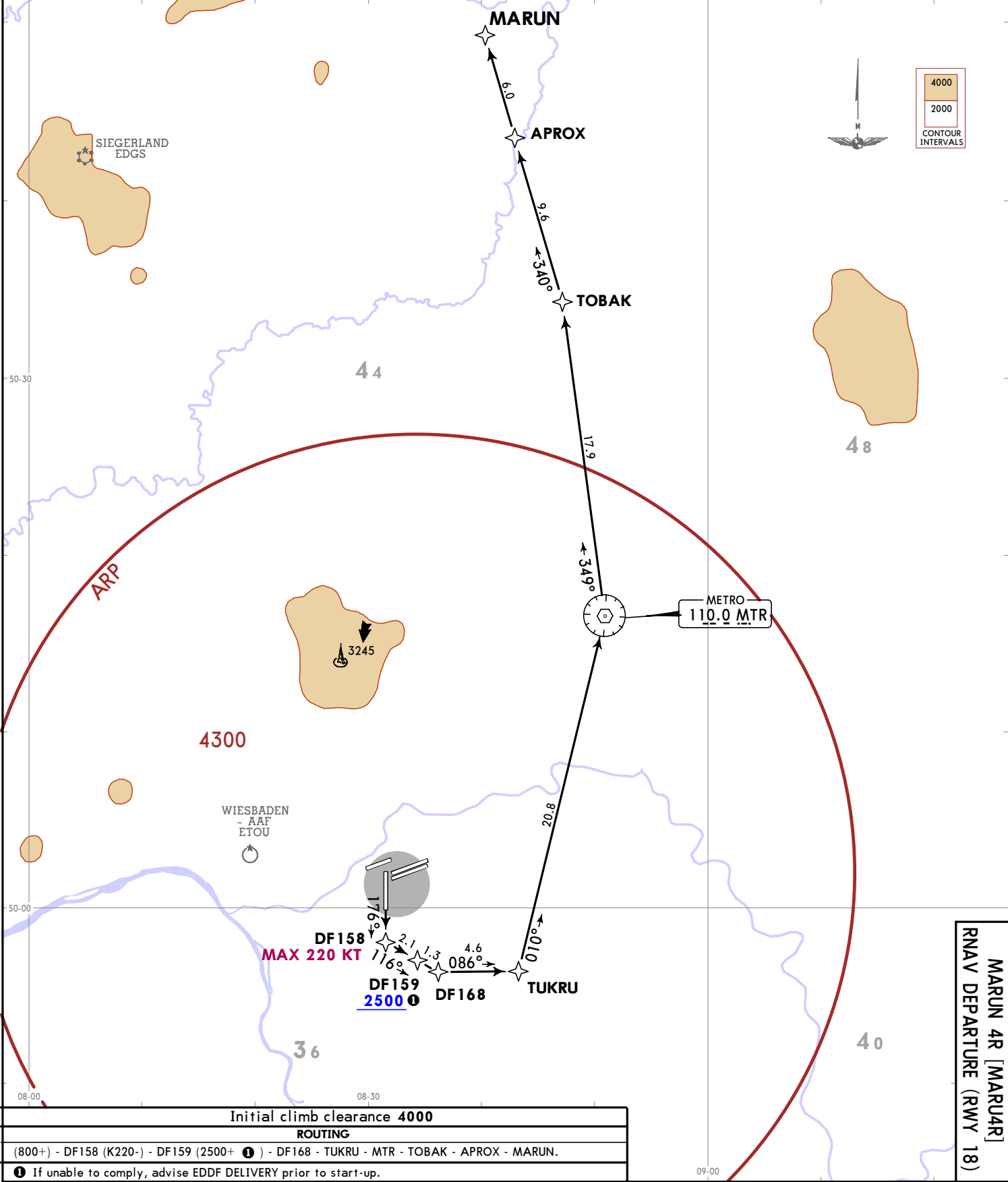
EDDF/FRA
FRANKFURT/MAIN
JEPPESSEN
4 AUG 23 (10-3E4)
EFF 10 Aug

Trans alt: 5000
RNAV 1 required GPS, DME/DME/IRU DME/DME without IRU not authorized

*LANGEN Radar
Apt Elev 363
120.155

- Contact LANGEN Radar when advised by Tower.
- RADAR required.
- SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY.
- For operational RWY use concept refer to 10-1P pages.
- WARNING: Close-in obstacles.
- WARNING: Wind shears and increased turbulences must be expected when strong winds.
- Do not turn before DER.

MARUN 4R [MARU4R]
RNAV DEPARTURE (RWY 18)
BY ATC
SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



FRANKFURT/MAIN, GERMANY
RNAV SID
MARUN 4R [MARU4R]
RNAV DEPARTURE (RWY 18)

Initial climb clearance 4000
ROUTING
(800+) - DF158 (K220-) - DF159 (2500+ **①**) - DF168 - TUKRU - MTR - TOBAK - APROX - MARUN.
① If unable to comply, advise EDDF DELIVERY prior to start-up.

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CHANGES: Chart reindexed.

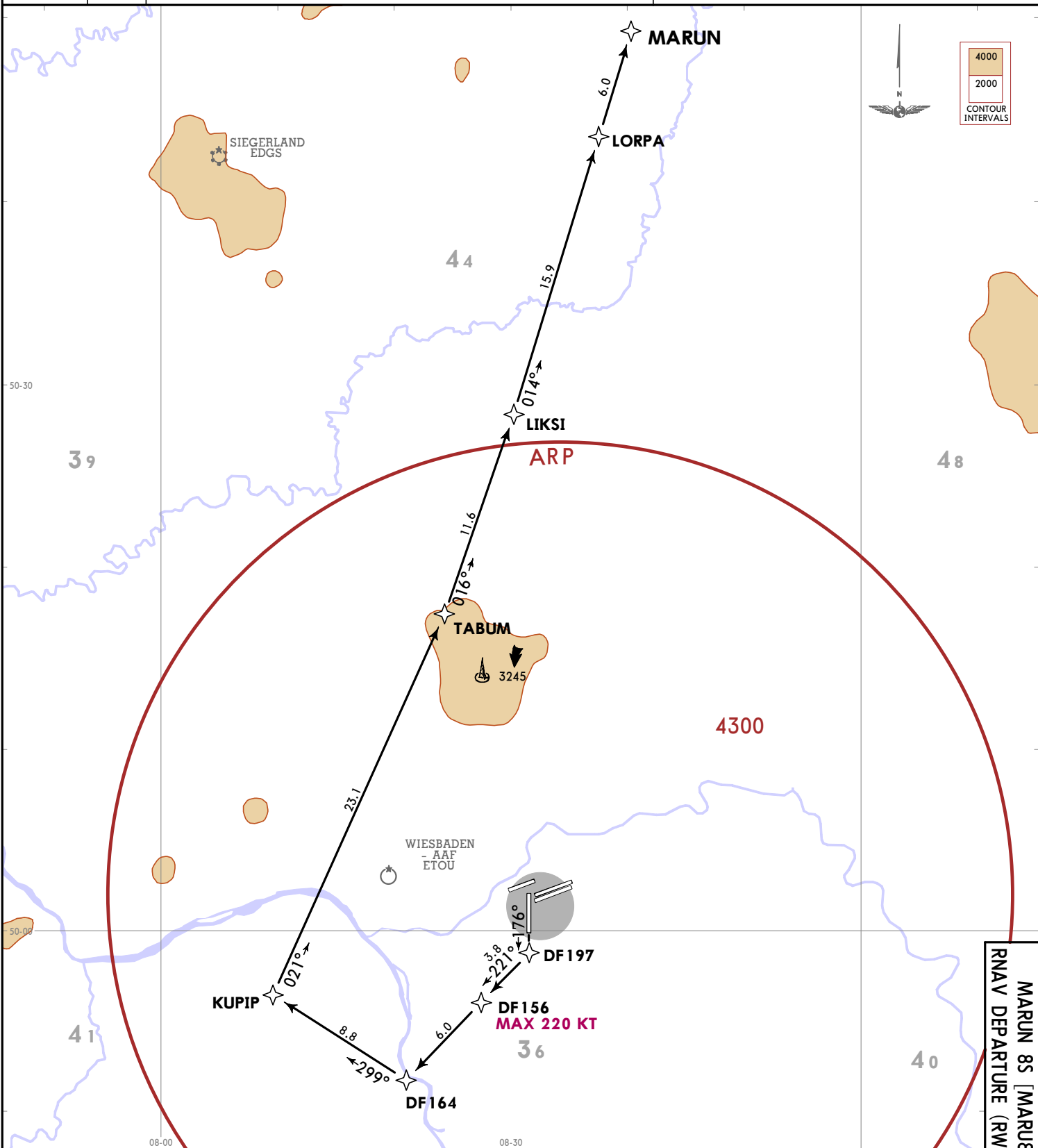
EDDF/FRA
FRANKFURT/MAIN
JEPPesen
10-3E5
4 AUG 23
Eff 10 Aug

Trans alt: 5000
RNAV 1 required GPS, DME/DME/IRU DME/DME without IRU not authorized

*LANGEN Radar
Apt Elev 363
120.155

- Contact LANGEN Radar when advised by Tower.
- RADAR required.
- SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY.
- For operational RWY use concept refer to 10-1P pages.
- WARNING: Close-in obstacles.
- WARNING: Wind shears and increased turbulences must be expected when strong winds.
- Do not turn before DER.

MARUN 8S [MARU8S]
RNAV DEPARTURE (RWY 18)
WILL ONLY BE ASSIGNED WHEN
LANDING DIRECTION IS RWY 25
SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



Initial climb clearance 4000
ROUTING
(800+) - DF197 - DF156 (K220-) - DF164 - KUIPIP - TABUM - LIKSI - LORPA - MARUN.

MARUN 8S [MARU8S]
RNAV DEPARTURE (RWY 18)
RNAV SID

FRANKFURT/MAIN, GERMANY

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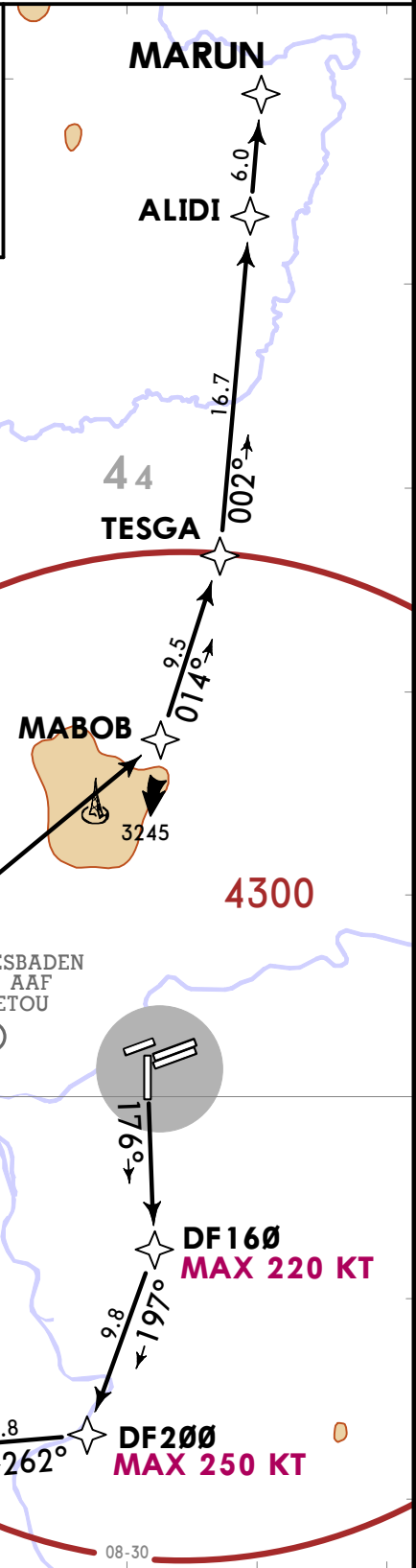
EDDF/FRA FRANKFURT/MAIN

JEPPESSEN FRANKFURT/MAIN, GERMANY
4 AUG 23 **10-3E6** **Eff 10 Aug** **RNAV SID**

*LANGEN Radar 136.130	Trans alt: 5000 RNAV 1 required GPS, DME/DME/IRU DME/DME without IRU not authorized
Apt Elev 363	1. Contact LANGEN Radar when advised by Tower. 2. RADAR required. 3. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 4. For operational RWY use concept refer to 10-1P pages. 5. WARNING: Close-in obstacles. 6. WARNING: Wind shears and increased turbulences must be expected when strong winds. 7. Do not turn before DER.

**MARUN 6T [MARU6T]
RNAV DEPARTURE
(RWY 18)**

**SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C**



Initial climb clearance 4000

ROUTING
(800+) - DF160 (K220-) - DF200 (K250-) - PIPIX (K250-) - VETUX (FL090+ (1)) - RUDUS - MABOB - TESGA - ALIDI - MARUN.

(1) If unable to comply, advise EDDF DELIVERY prior to start-up.

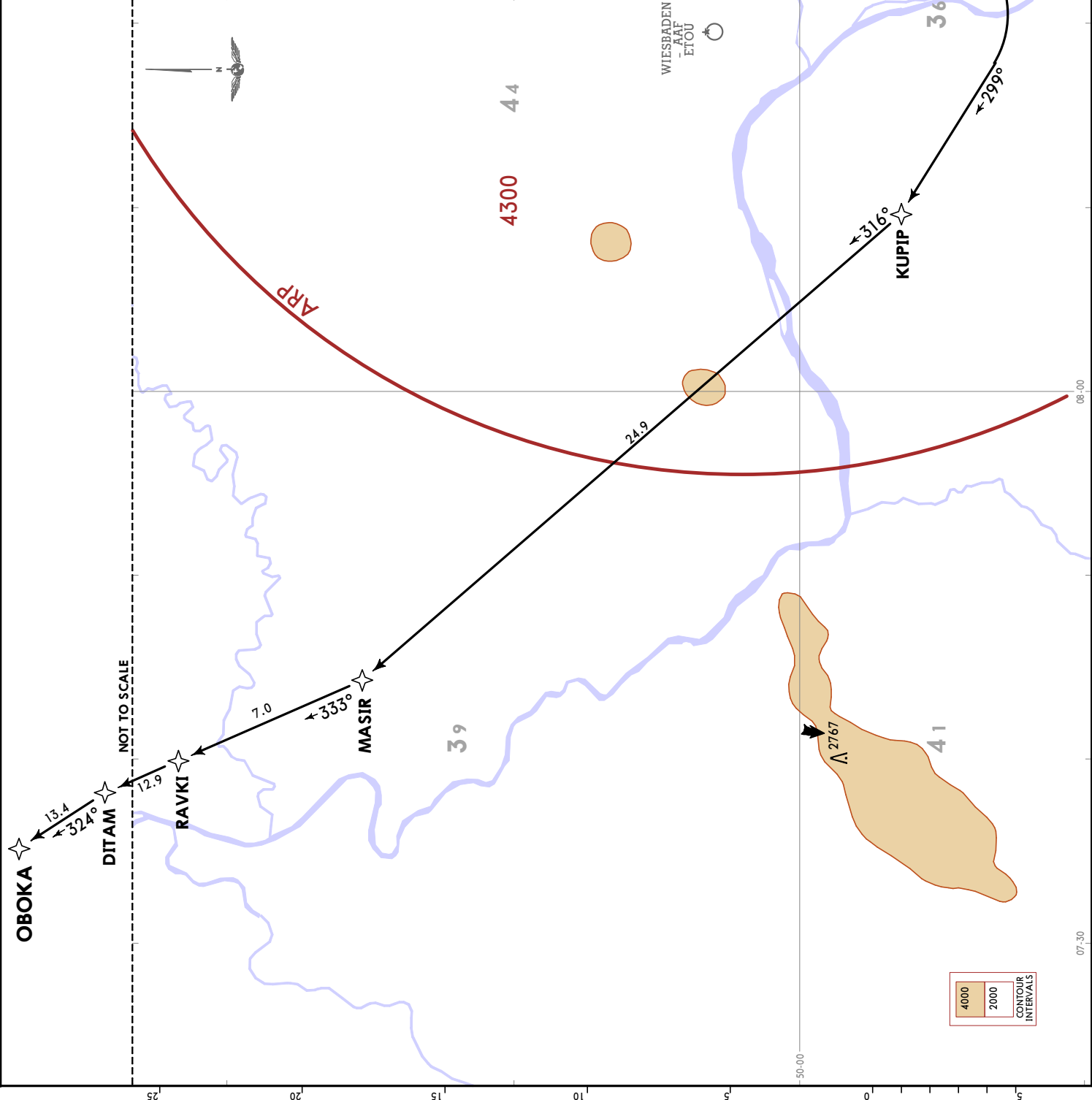
FRANKFURT/MAIN, GERMANY

RNAV SID

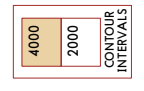
Apt Elev	363	*LANGEN Radar	120.155
Trans alt:	5000		
RNAV 1 required	GPS, DME/DME/IRU		
DME/DME without IRU	not authorized		
1. Contact LANGEN Radar when advised by Tower.			
2. RADAR required.			
3. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY.			
4. For operational RWY use concept refer to 10-1P pages.			

OBOKA 5N [OBOK5N]
RNAV DEPARTURE (RWYS 25L/C)
 FLIGHTS HAVE TO BE ABLE TO CROSS OBOKA AT OR ABOVE FL170 EXCEPT FLIGHTS TO EDDK IF UNABLE TO COMPLY
ADVISE EDDF DELIVERY PRIOR TO START-UP
SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C

Initial climb clearance		5000
ROUTING		
RWY 25L	DF135 (800+) - DF165 (K220-) - DF166 - DF161 - KUPIP - MASIR - RAVKI - DITAM - OBOKA.	
25C	DF134 (800+) - DF162 (K220-) - DF166 - DF161 - KUPIP - MASIR - RAVKI - DITAM - OBOKA.	



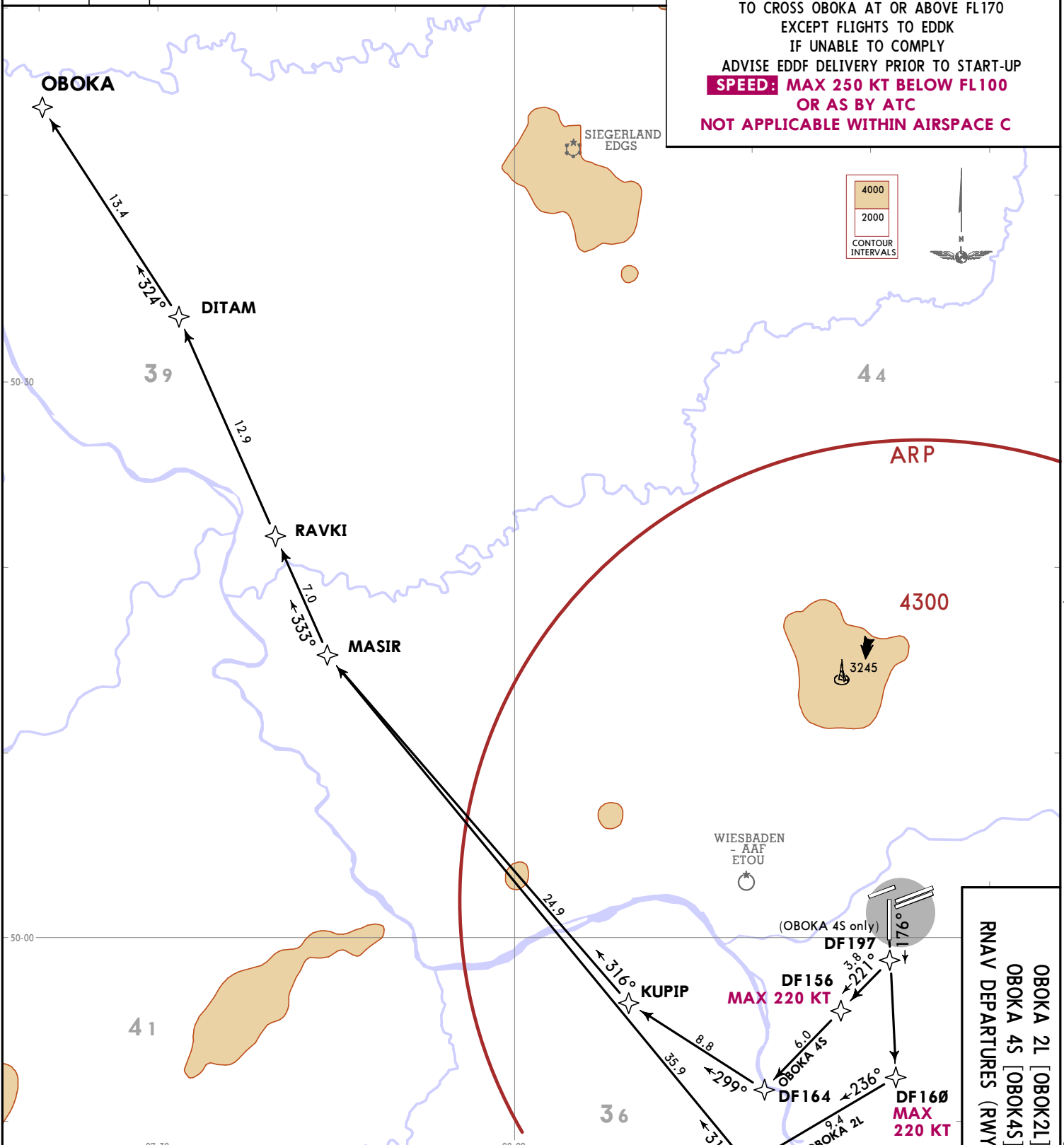
EDDF/FRA
FRANKFURT/MAIN
10-3E7
4 AUG 23
Eff 10 Aug



CHANGES: Chart reindexed.

*LANGEN Radar 120.155	Apt Elev 363	Trans alt: 5000
		RNAV 1 required GPS, DME/DME/IRU DME/DME without IRU not authorized
1. Contact LANGEN Radar when advised by Tower. 2. RADAR required. 3. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 4. For operational RWY use concept refer to 10-1P pages. 5. WARNING: Close-in obstacles. 6. WARNING: Wind shears and increased turbulences must be expected when strong winds. 7. Do not turn before DER.		

OBOKA 2L [OBOK2L]
OBOKA 4S [OBOK4S]
RNAV DEPARTURES
(RWY 18)
 WILL ONLY BE ASSIGNED WHEN
 LANDING DIRECTION IS RWY 25
 FLIGHTS HAVE TO BE ABLE
 TO CROSS OBOKA AT OR ABOVE FL170
 EXCEPT FLIGHTS TO EDDK
 IF UNABLE TO COMPLY
 ADVISE EDDF DELIVERY PRIOR TO START-UP
SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



Initial climb clearance 4000	
SID	ROUTING
OBOKA 2L	(800+) - DF160 (K220-) - XAMUB - MASIR - RAVKI - DITAM - OBOKA.
OBOKA 4S	(800+) - DF197 - DF156 (K220-) - DF164 - KUPIP - MASIR - RAVKI - DITAM - OBOKA.

OBOKA 2L [OBOK2L]
OBOKA 4S [OBOK4S]
RNAV DEPARTURES (RWY 18)

EDDF/FRA
 FRANKFURT/MAIN
 4 Aug 23 (10-3E8)
 JEPPESEN
 EFF 10 Aug
 FRANKFURT/MAIN, GERMANY
 RNAV SID

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FRANKFURT/MAIN, GERMANY
RNAV SID

JEPPesen
 EDDF/FRA
 FRANKFURT/MAIN 4 AUG 23 (10-3E9) Eff 10 Aug

OBOKA 2R [OBOK2R]
RNAV DEPARTURE
 (RWY 18)
 BY ATC

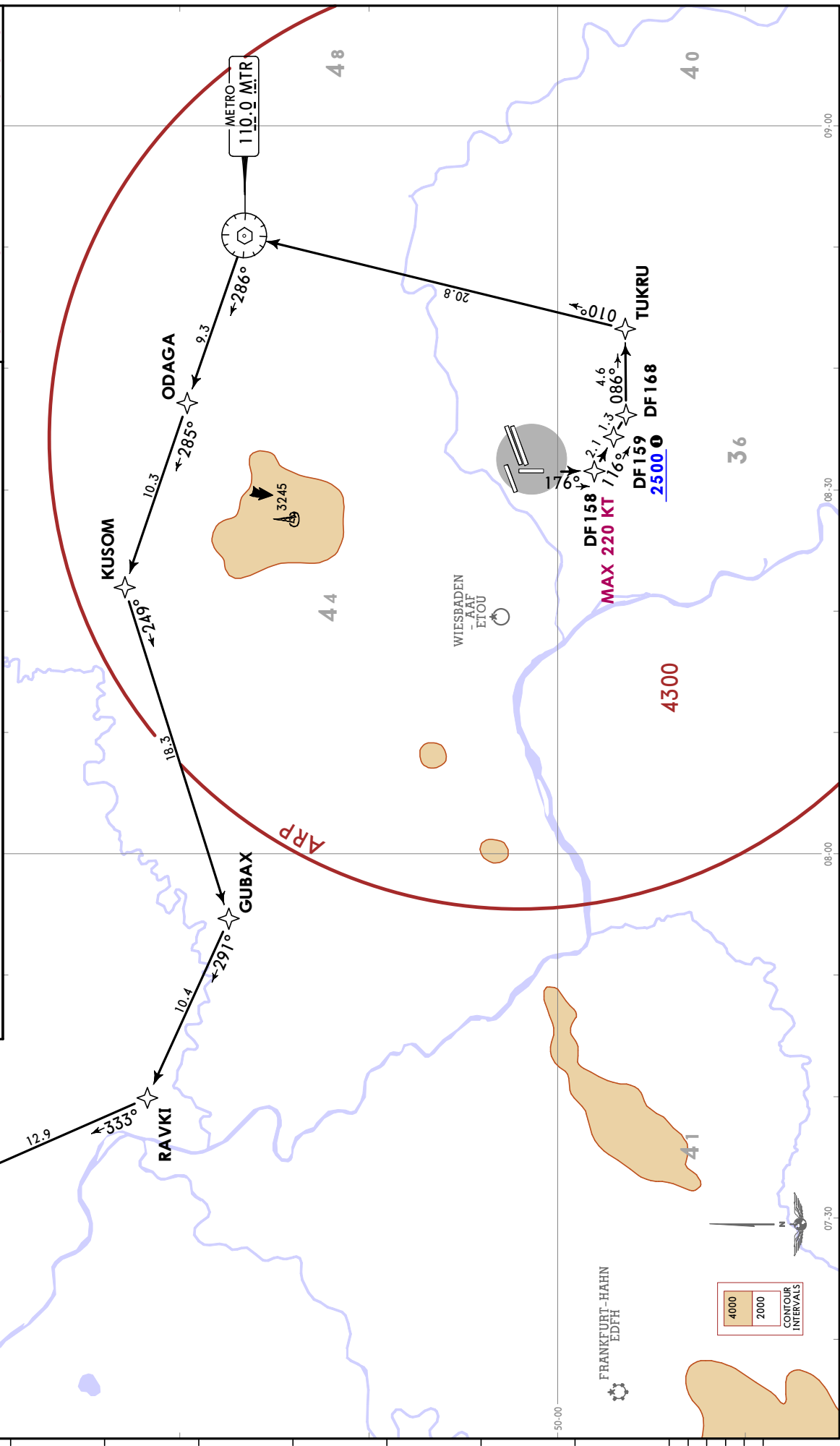
FLIGHTS HAVE TO BE ABLE TO CROSS OBOKA AT OR ABOVE FL170 EXCEPT FLIGHTS TO EDDK IF UNABLE TO COMPLY

ADVISE EDDF DELIVERY PRIOR TO START-UP

SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC

NOT APPLICABLE WITHIN AIRSPACE C

Trans alt: 5000	RNAV 1 required	GPS, DME/DME/IRU, DME/DME without IRU not authorized
Apt Elev 363	*LANGEN Radar 120.155	1. Contact LANGEN Radar when advised by tower. 2. RADAR required. 3. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 4. For operational RWY use concept refer to 10-1P pages. 5. WARNING: Close-in obstacles. 6. WARNING: Wind shears and increased turbulences must be expected when strong winds. 7. Do not turn before DER.
Initial climb clearance 4000		
ROUTING		
(800+) - DF158 (K220-) - DF159 (2500+) - DF168 - TUKRU - MTR - ODAGA - KUSOM - GUBAX - RAVKI - DITAM - OBOKA.		
If unable to comply, advise EDDF DELIVERY prior to start-up.		



Trans alt: 5000	
RNAV 1 required - GPS, DME/DME/IRU - DME/DME without IRU not authorized	
1. Contact LANGEN Radar when advised by Tower. 2. RADAR required.	
3. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY.	
4. For operational RWY use concept refer to 10-1P pages.	
5. WARNING: Close-in obstacles.	
6. WARNING: Wind shears and increased turbulences must be expected when strong winds.	
7. Do not turn before DER.	
#LANGEN Radar	136.130
Apt Elev	363

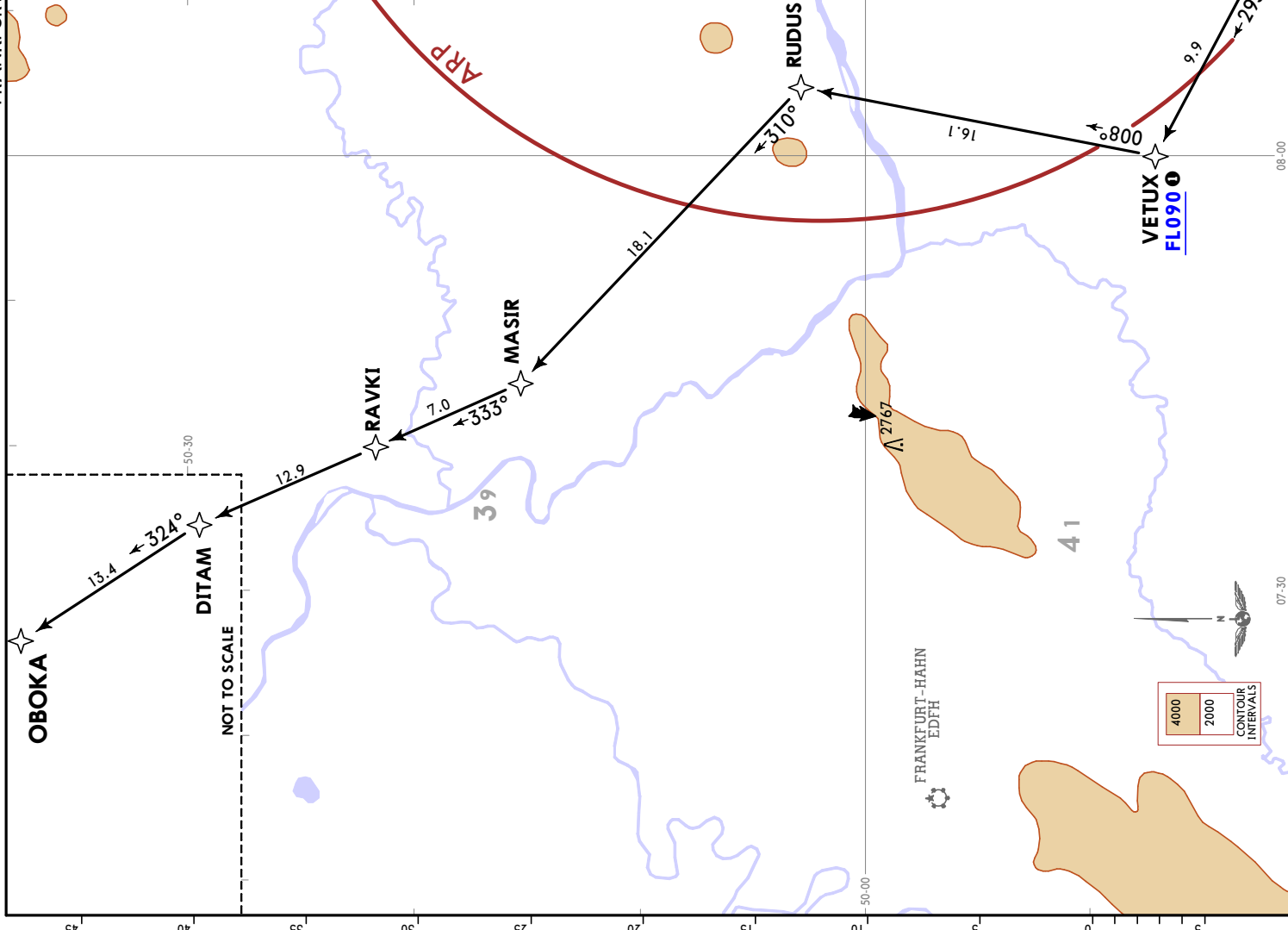
OBOKA 3T [OBOK3T]
RNAV DEPARTURE
(RWY 18)

FLIGHTS HAVE TO BE ABLE TO CROSS OBOKA AT OR ABOVE FL170 EXCEPT FLIGHTS TO EDDK IF UNABLE TO COMPLY
ADVISE EDDF DELIVERY PRIOR TO START-UP
SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C
Initial climb clearance 4000

ROUTING

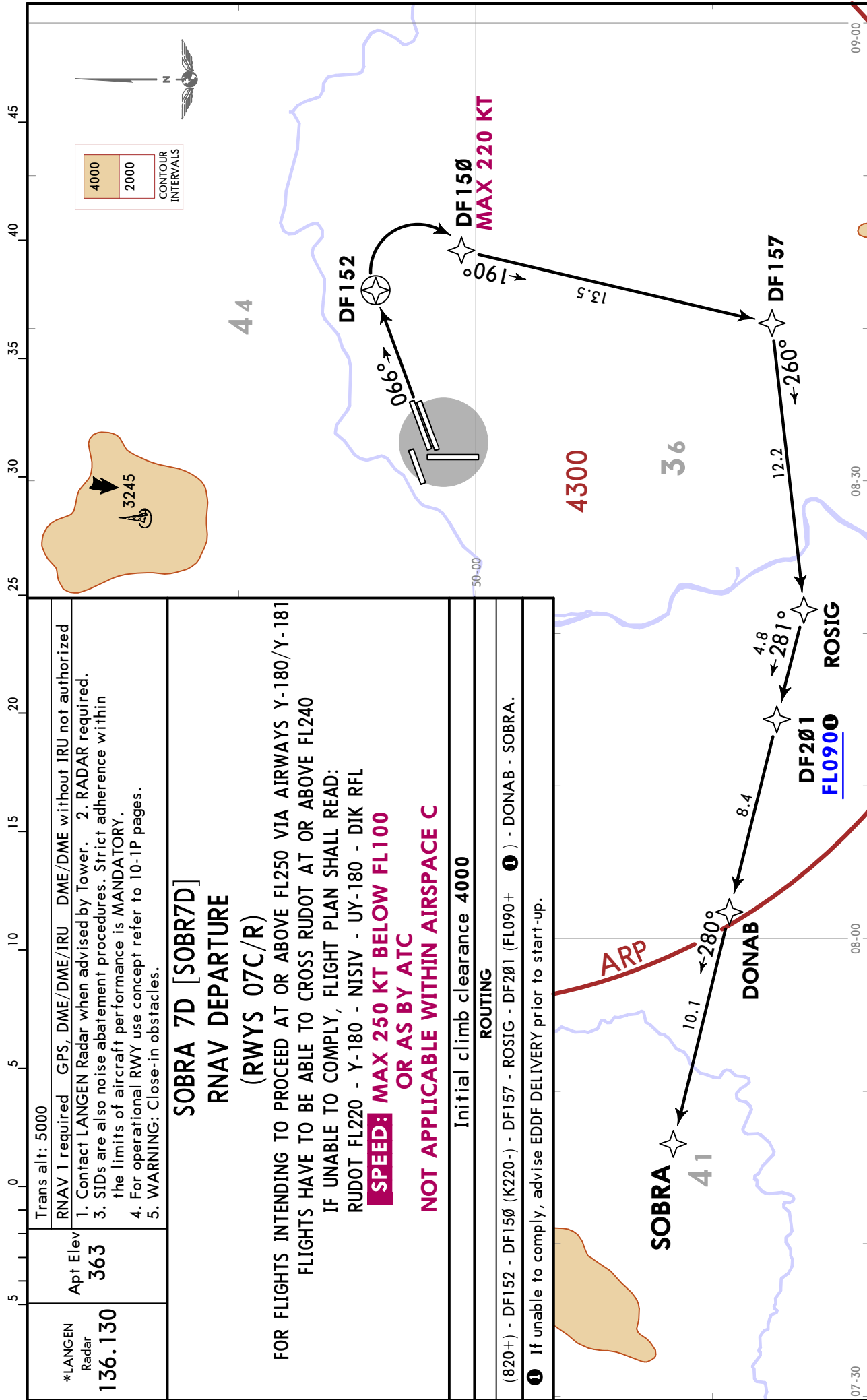
(800+) - DF160 (K220+) - DF200 (K250+) - PIPIX (K250+) - VETUX (FL090+) - RUDUS - MASIR - RAVKI - DITAM - OBOKA.

☛ If unable to comply, advise EDDF DELIVERY prior to start-up.



EDDF/FRA
FRANKFURT/MAIN

JEPPESSEN FRANKFURT/MAIN, GERMANY
4 AUG 23 10-3F Eff 10 Aug RNAV SID



Trans alt: 5000
 RNAV 1 required GPS, DME/DME/IRU DME/DME without IRU not authorized
 1. Contact LANGEN Radar when advised by Tower. 2. RADAR required.
 3. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY.
 4. For operational RWY use concept refer to 10-1P pages.
 5. WARNING: Close-in obstacles.

SOBRA 7D [SOBR7D]
RNAV DEPARTURE
(RWYS 07C/R)

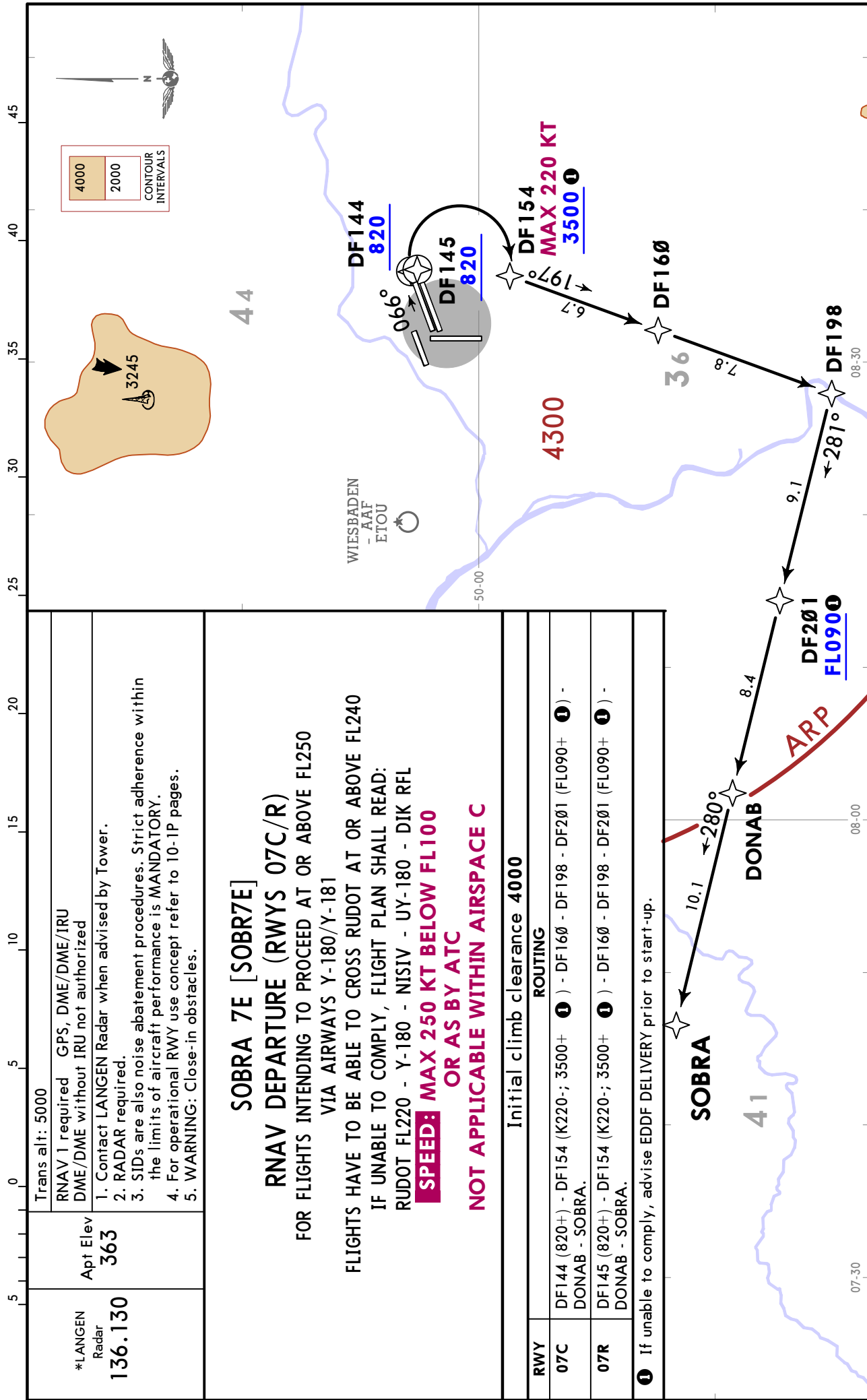
FOR FLIGHTS INTENDING TO PROCEED AT OR ABOVE FL250 VIA AIRWAYS Y-180/Y-181
 FLIGHTS HAVE TO BE ABLE TO CROSS RUDOT AT OR ABOVE FL240
 IF UNABLE TO COMPLY, FLIGHT PLAN SHALL READ:
 RUDOT FL220 - Y-180 - NISIV - UY-180 - DIK RFL
SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C

Initial climb clearance 4000
ROUTING
 (820+) - DF152 - DF150 (K220-) - DF157 - ROSIG - DF201 (FL090+) (1) - DONAB - SOBRA.
 1 If unable to comply, advise EDDF DELIVERY prior to start-up.

EDDF/FRA
FRANKFURT/MAIN

JEPPESSEN FRANKFURT/MAIN, GERMANY
4 AUG 23 (10-3G) Eff 10 Aug

RNAV SID



EDDF/FRA FRANKFURT/MAIN

Initial climb clearance 5000		
SID	RWY	ROUTING
SOBRA 8F	25L	DF135 (800+) - DF142 - DF163 (K220-) - DF201 - DONAB - SOBRA.
	25C	DF134 (800+) - DF141 - DF163 (K220-) - DF201 - DONAB - SOBRA.
SOBRA 7P	25L	DF135 (800+) - DF138 (K220-) - DONAB - SOBRA.
	25C	DF134 (800+) - DF138 (K220-) - DONAB - SOBRA.

Trans alt: 5000

RNAV 1 required GPS, DME/DME/IRU
DME/DME without IRU not authorized

- Contact LANGEN Radar when advised by Tower.
- RADAR required.
- SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY.
- For operational RWY use concept refer to 10-1P pages.

Apt Elev **363**

*LANGEN Radar **136.130**

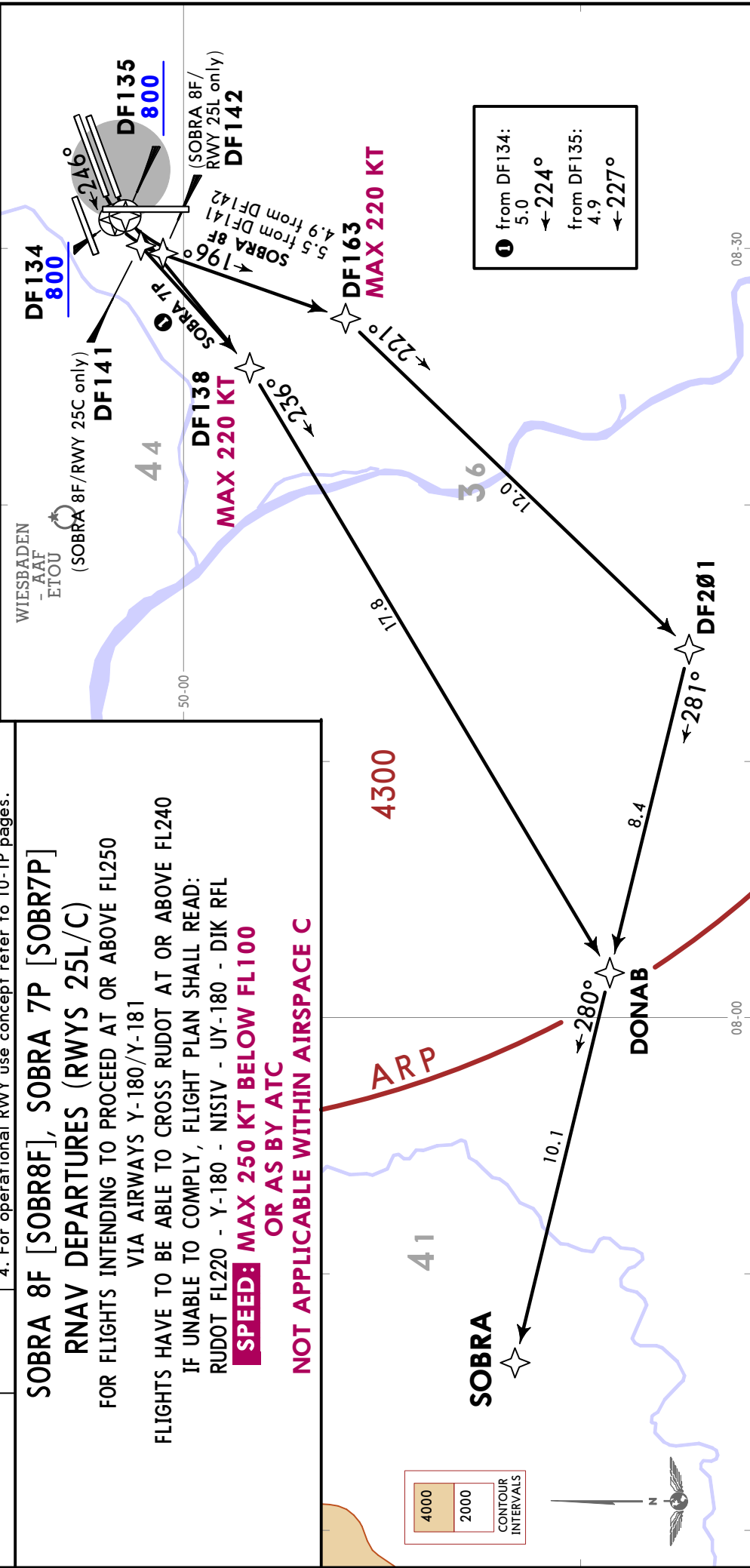
**SOBRA 8F [SOBR8F], SOBRA 7P [SOBR7P]
RNAV DEPARTURES (RWYS 25L/C)**

FOR FLIGHTS INTENDING TO PROCEED AT OR ABOVE FL250
VIA AIRWAYS Y-180/Y-181

FLIGHTS HAVE TO BE ABLE TO CROSS RUDOT AT OR ABOVE FL240
IF UNABLE TO COMPLY, FLIGHT PLAN SHALL READ:
RUDOT FL220 - Y-180 - NISIV - UY-180 - DIK RFL

**SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC**

NOT APPLICABLE WITHIN AIRSPACE C

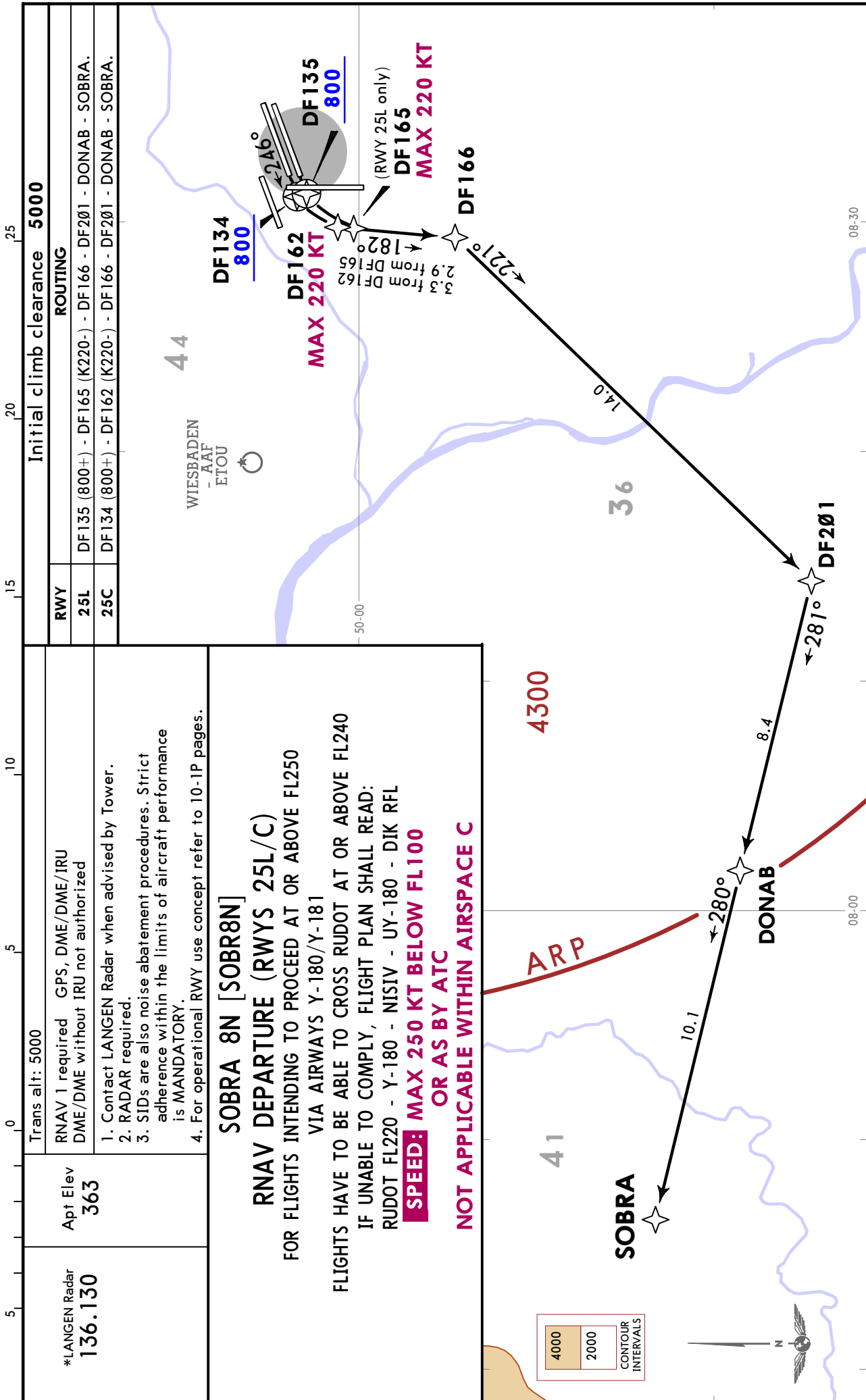


CHANGES: Chart reindexed, initial climb revised.

EDDF/FRA
FRANKFURT/MAIN

JEPPESSEN FRANKFURT/MAIN, GERMANY
4 AUG 23 (10-3G2) Eff 10 Aug

RNAV SID



EDDF/FRA
FRANKFURT/MAIN

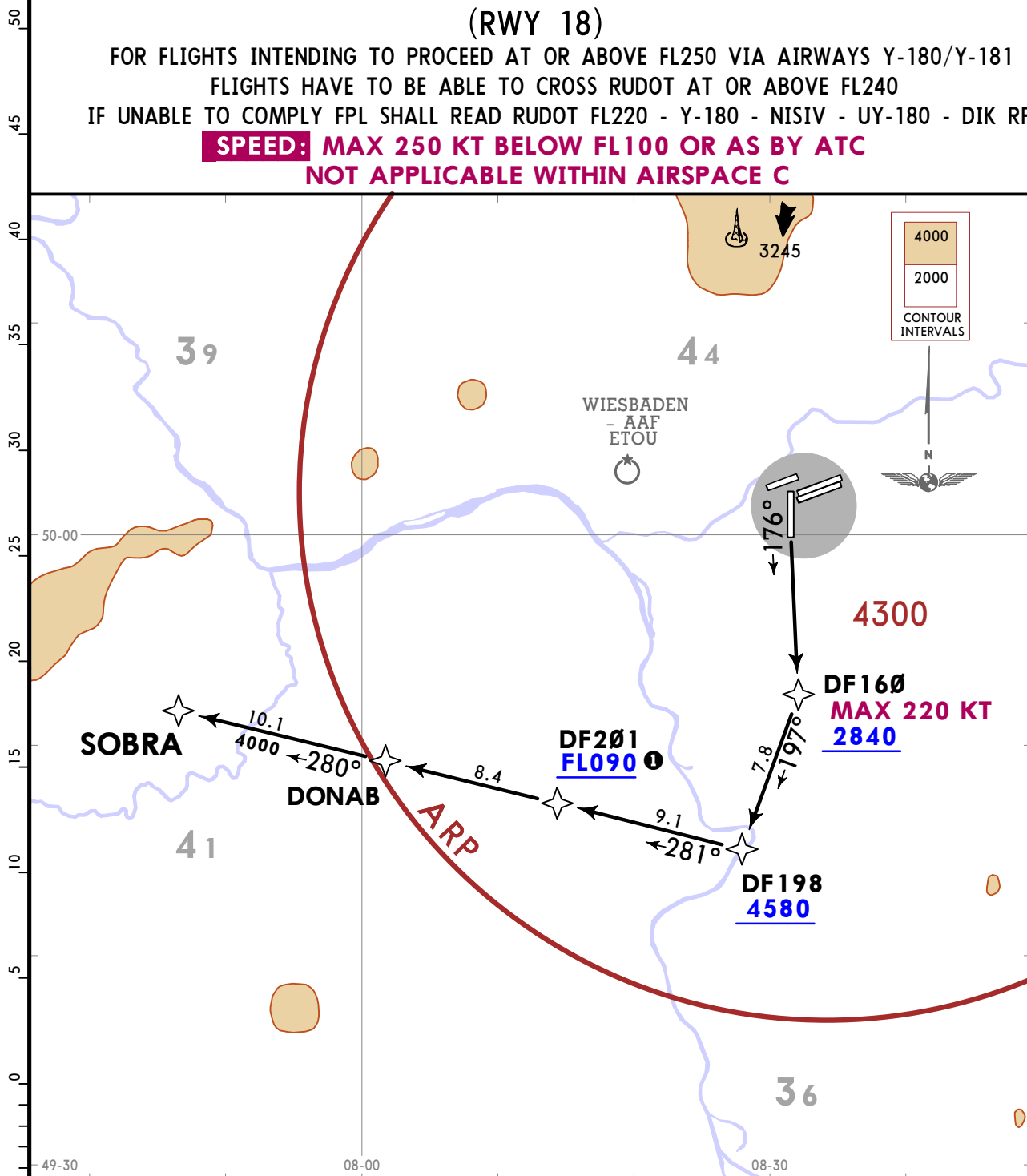
JEPPESEN FRANKFURT/MAIN, GERMANY
4 AUG 23 (10-3G3) Eff 10 Aug

RNAV SID

*LANGEN Radar 136.130	Apt Elev 363	Trans alt: 5000
		RNAV 1 required GPS, DME/DME/IRU DME/DME without IRU not authorized
<ol style="list-style-type: none"> Contact LANGEN Radar when advised by Tower. RADAR required. WARNING: Close-in obstacles. WARNING: Wind shears and increased turbulences must be EXPECTED when strong winds. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. Do not turn before DER. 		

SOBRA 2L [SOBR2L]
RNAV DEPARTURE
(RWY 18)

FOR FLIGHTS INTENDING TO PROCEED AT OR ABOVE FL250 VIA AIRWAYS Y-180/Y-181
FLIGHTS HAVE TO BE ABLE TO CROSS RUDOT AT OR ABOVE FL240
IF UNABLE TO COMPLY FPL SHALL READ RUDOT FL220 - Y-180 - NISIV - UY-180 - DIK RFL
SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



Initial climb clearance 4000

ROUTING

(800+) - DF160 (K220-; 2840+) - DF198 (4580+) - DF201 (FL090+ ①) - DONAB - SOBRA.

① If unable to comply, advise EDDF DELIVERY prior to start-up and EXPECT routing via SID ULKIG 2L.

FRANKFURT/MAIN, GERMANY
RNAV SID

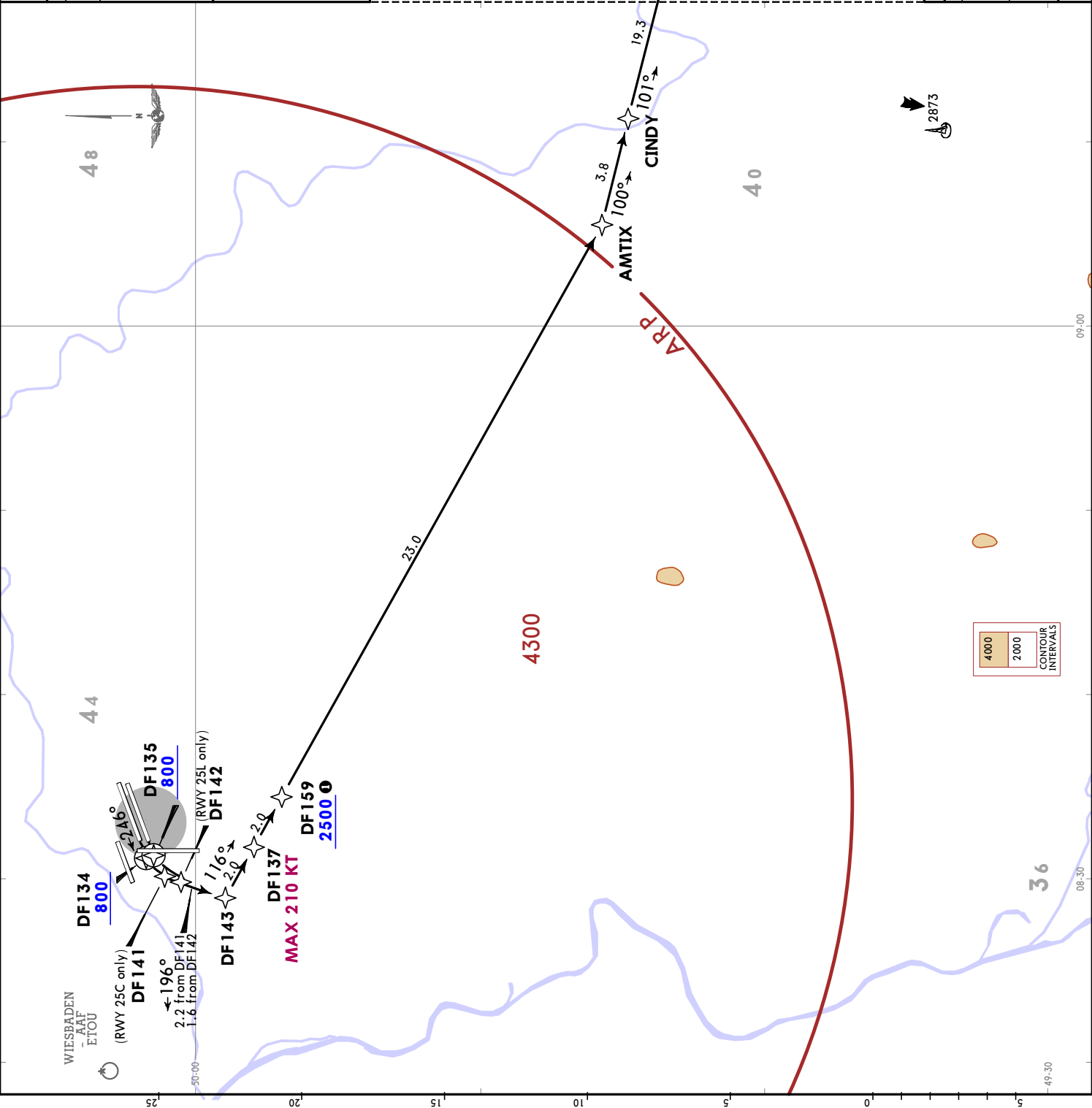
*LANGEN Radar
 136.130
 Apt Elev
 363

Trans alt: 5000

RNAV 1 required
 GPS, DME/DME/IRU
 DME/DME without IRU not authorized

1. Contact LANGEN Radar when advised by Tower.
 2. RADAR required.
 3. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY.
 4. For operational RWY use concept refer to 10-1P pages.

SULUS 3F [SULU3F]
RNAV DEPARTURE
(RWYS 25L/C)
SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



Initial climb clearance		5000
RWY	ROUTING	
25L	DF135 (800+) - DF142 - DF143 - DF137 (K210-) - DF159 (2500+) - AMTIX - CINDY - GIBSA - COSJE - SULUS.	
25C	DF134 (800+) - DF141 - DF143 - DF137 (K210-) - DF159 (2500+) - AMTIX - CINDY - GIBSA - COSJE - SULUS.	

1 If unable to comply, advise EDDF DELIVERY before start-up.

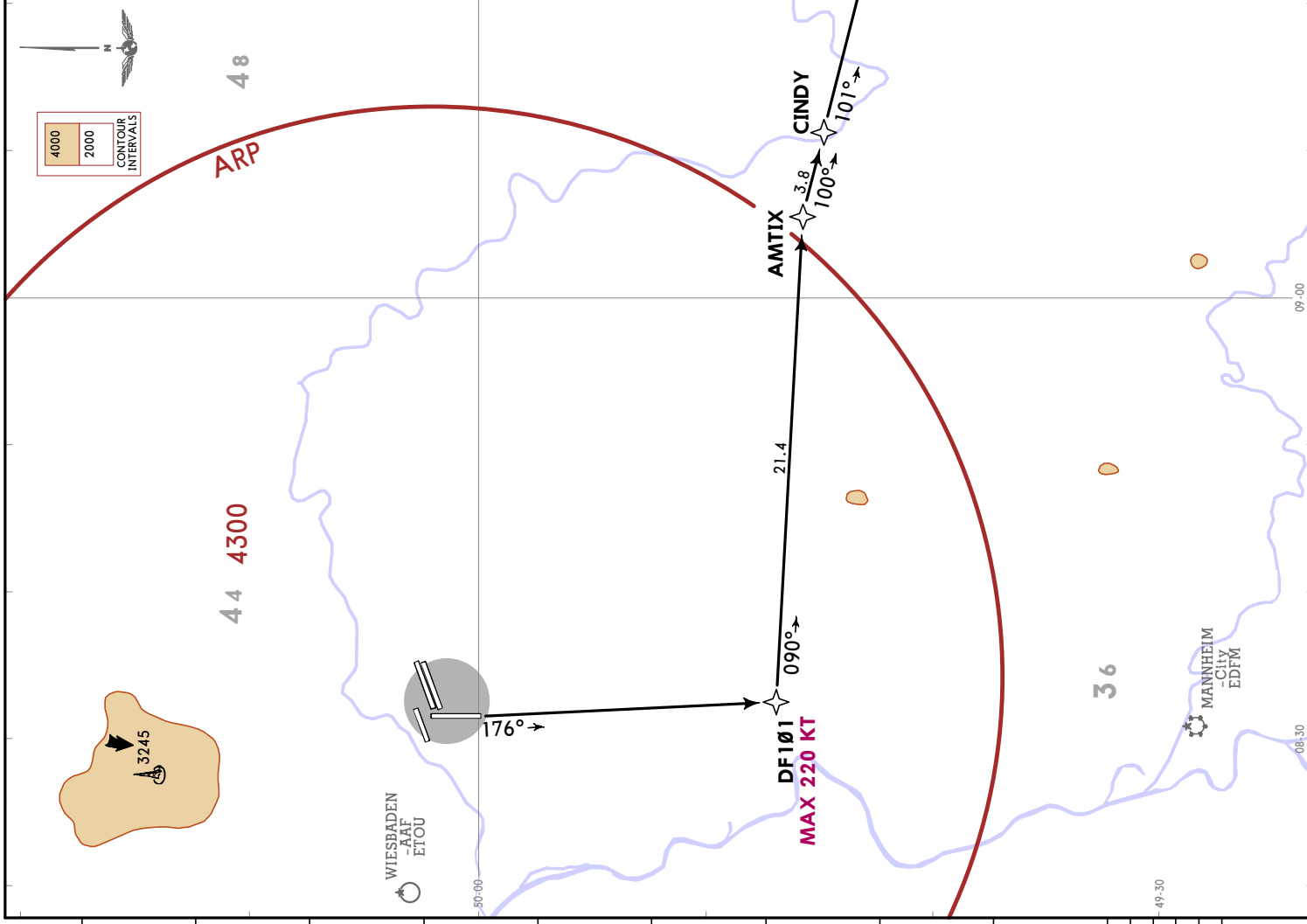
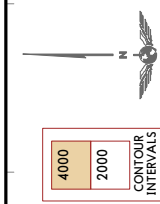
FRANKFURT/MAIN, GERMANY
RNAV SID

EDDF/FRA
 FRANKFURT/MAIN
 10-3G5
 3 NOV 23

*LANGEN Radar (APP) 136.130		Apt Elev 363	Trans alt: 5000 RNAV 1 required GPS, DME/DME/IRU DME/DME without IRU not authorized
1. Contact LANGEN Radar when advised by Tower. 2. RADAR required. 3. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 4. For operational RWY use concept refer to 10-IP pages. 5. WARNING: Close-in obstacles. 6. WARNING: Wind shears and increased turbulences must be expected when strong winds.			

SULUS 2L [SULU2L]
RNAV DEPARTURE
 (RWY 18)
SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C

Initial climb clearance **4000**
ROUTING
 (800+) - DF101 (K220) - AMTIX - CINDY - GIBSA - COSJE - SULUS.



JEPPESSEN
3 NOV 23 (10-3G6)
EDDF/FRA
FRANKFURT/MAIN

FRANKFURT/MAIN, GERMANY
RNAV SID

*LANGEN Radar (APP)
136.130
Apt Elev **363**
Trans alt: 5000

RNAV 1 required
GPS, DME/DME/IRU
DME/DME without IRU not authorized

1. Contact LANGEN Radar when advised by Tower.
2. RADAR required
3. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is **MANDATORY**
4. For operational RWY use concept refer to 10-1P pages.
5. **WARNING:** Close-in obstacles.
6. **WARNING:** Wind shears and turbulences must be expected when strong winds.
7. Do not turn before DER.

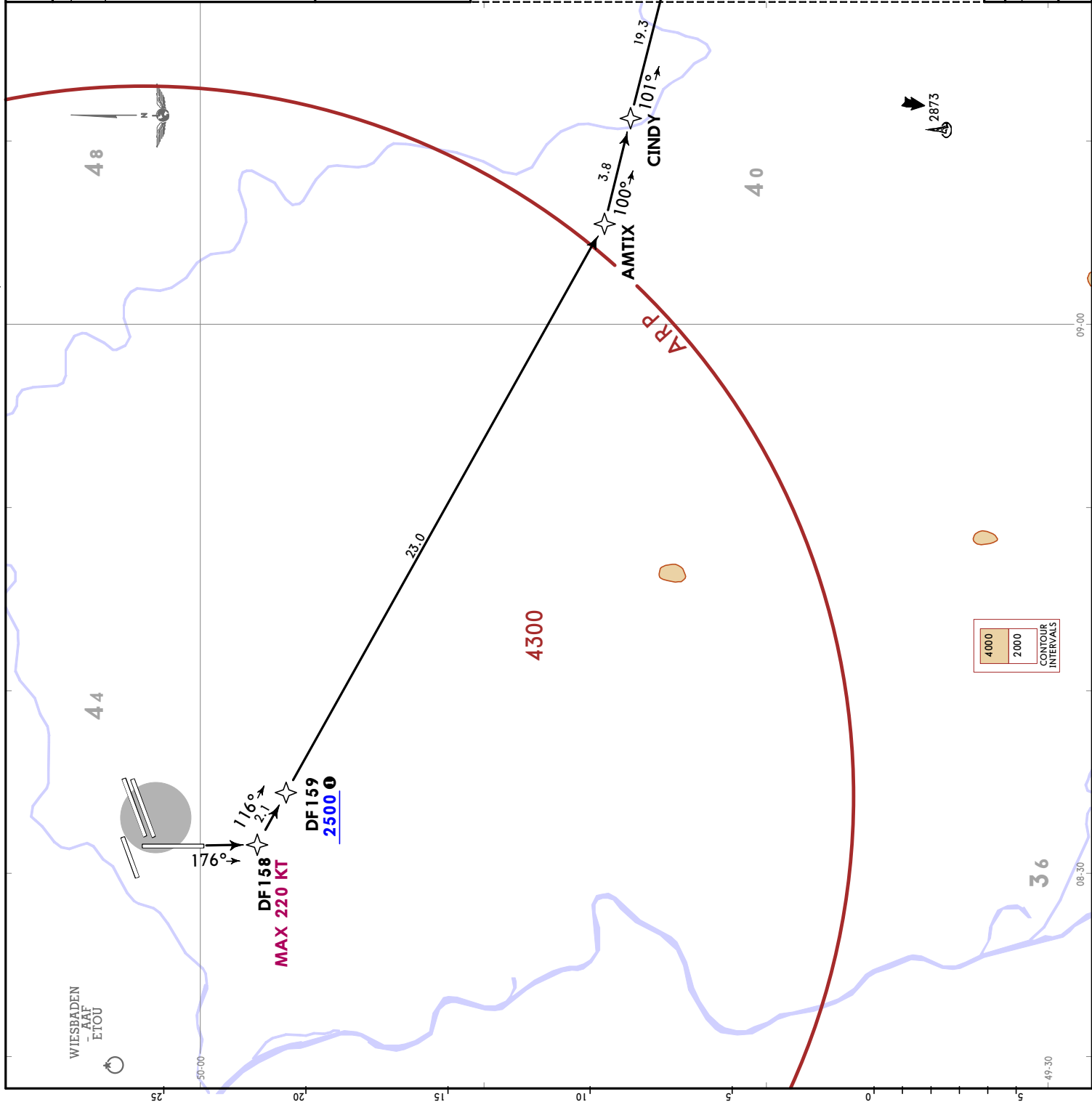
SULUS 4S [SULU4S]
RNAV DEPARTURE
(RWY 18)

SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C

SULUS ✧
37.2
✧
COSJE ✧
051°
11.3
✧
GIBSA ✧
071°
19.3
✧
CINDY ✧
101°
3.8
✧
AMTIX ✧
100°
23.0
✧
DF159 ✧
2500 0
176°
✧
DF158 ✧
MAX 220 KT
176°
✧
2.1
✧
116°

NOT TO SCALE

Initial climb clearance **4000**
ROUTING
(800+) - DF158 (K220-) - DF159 (2500+ 0) - AMTIX - CINDY - GIBSA - COSJE - SULUS.
0 If unable to comply, advise EDDF DELIVERY before start-up and EXPECT routing via SID SULUS 2L.



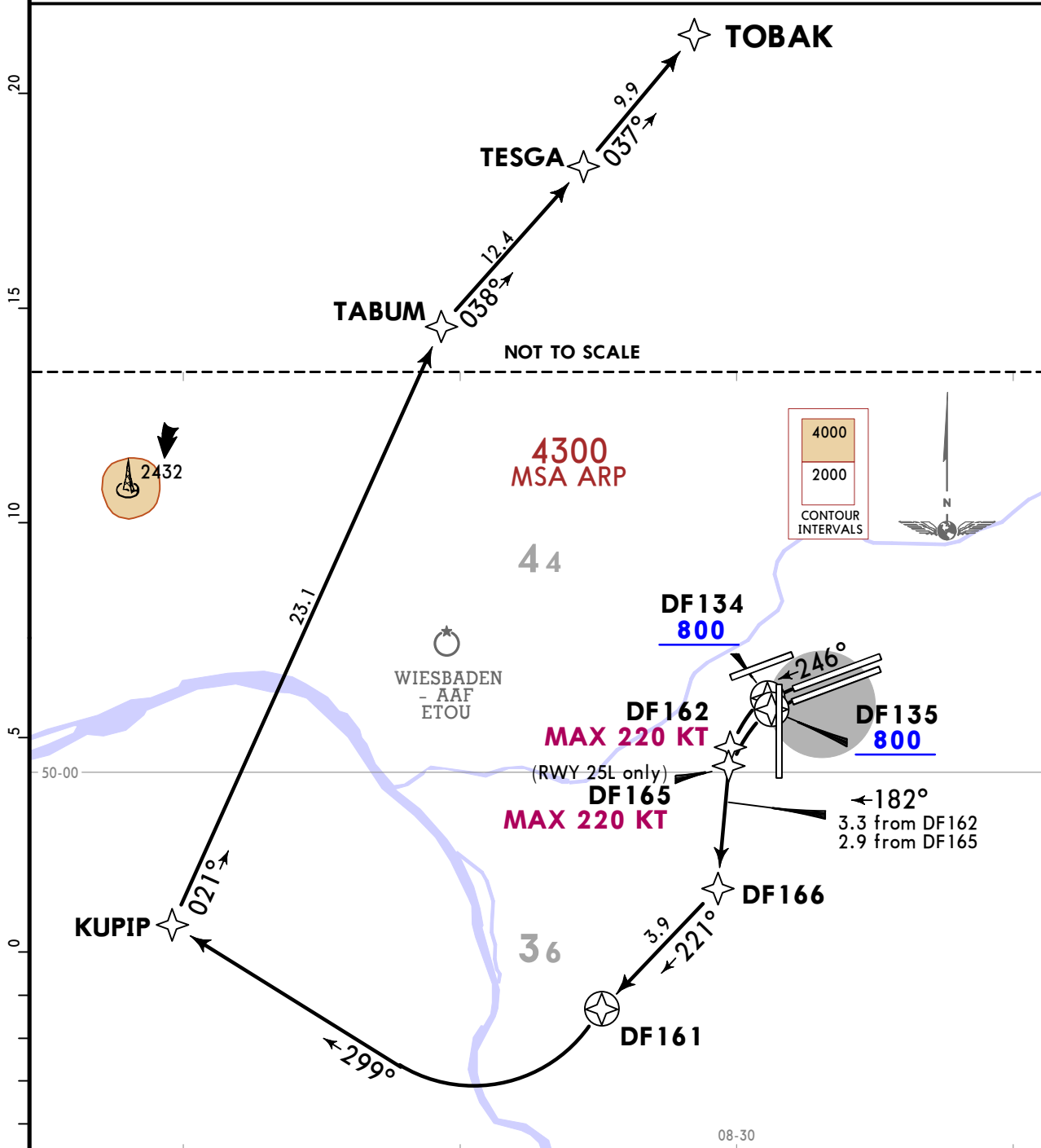
EDDF/FRA
FRANKFURT/MAIN

JEPPESEN FRANKFURT/MAIN, GERMANY
4 AUG 23 **10-3H** Eff 10 Aug

RNAV SID

*LANGEN Radar 120.155	Apt Elev 363	Trans alt: 5000
		RNAV 1 required GPS, DME/DME/IRU DME/DME without IRU not authorized
1. Contact LANGEN Radar when advised by Tower. 2. RADAR required. 3. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 4. For operational RWY use concept refer to 10-1P pages.		

TOBAK 3N [TOBA3N]
RNAV DEPARTURE (RWYS 25L/C)
 NOT FOR FLIGHTS CONTINUING VIA AIRWAY Z-10
SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



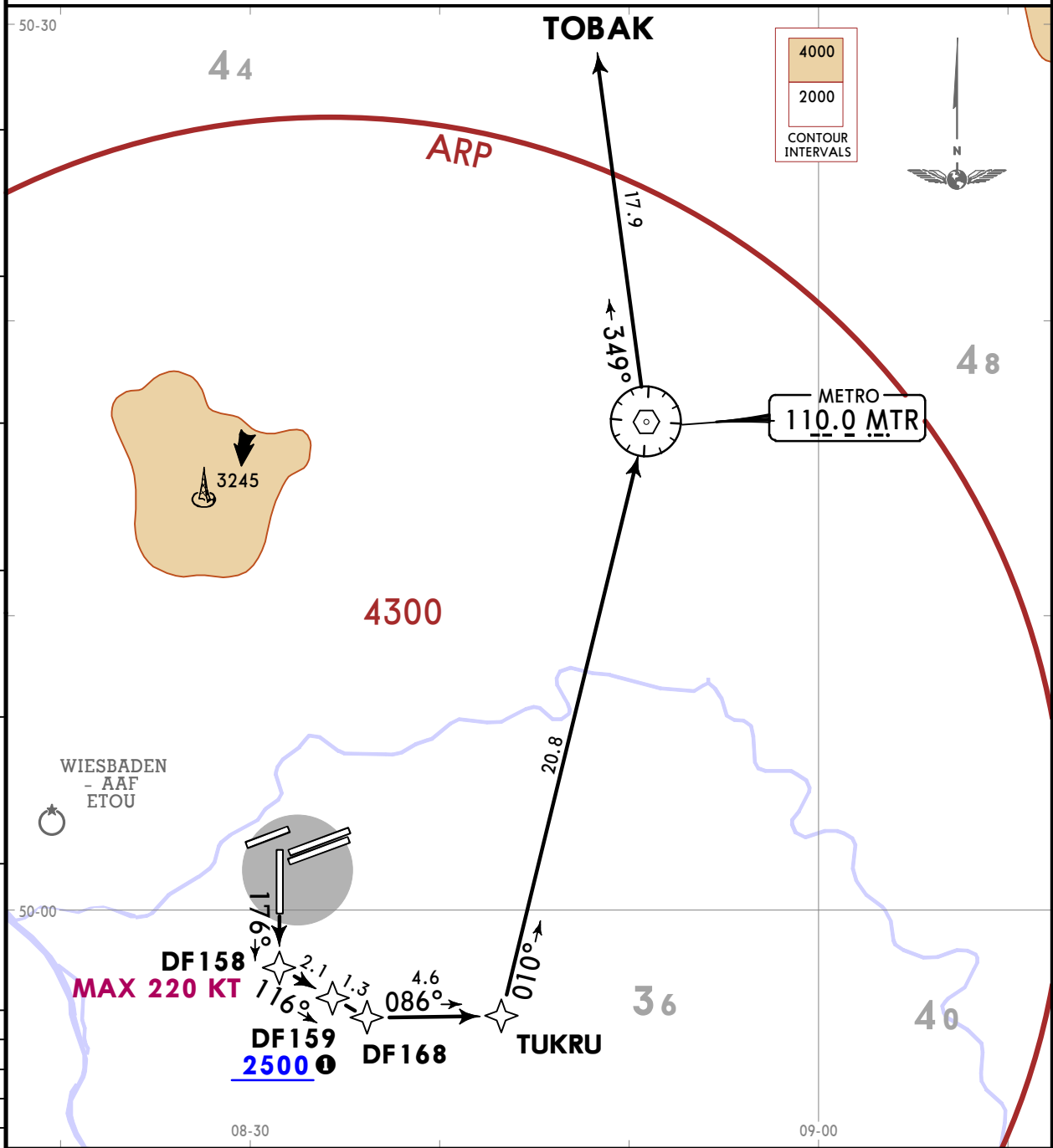
Initial climb clearance 5000	
RWY	ROUTING
25L	DF135 (800+) - DF165 (K220-) - DF166 - DF161 - KUPIP - TABUM - TESGA - TOBAK.
25C	DF134 (800+) - DF162 (K220-) - DF166 - DF161 - KUPIP - TABUM - TESGA - TOBAK.

EDDF/FRA
FRANKFURT/MAIN

JEPPESEN FRANKFURT/MAIN, GERMANY
4 AUG 23 **10-3J** Eff 10 Aug **RNAV SID**

*LANGEN Radar 120.155	Apt Elev 363	Trans alt: 5000
		RNAV 1 required GPS, DME/DME/IRU DME/DME without IRU not authorized
1. Contact LANGEN Radar when advised by Tower. 2. RADAR required. 3. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 4. For operational RWY use concept refer to 10-1P pages. 5. WARNING: Close-in obstacles. 6. WARNING: Wind shears and increased turbulences must be expected when strong winds. 7. Do not turn before DER.		

TOBAK 4R [TOBA4R]
RNAV DEPARTURE (RWY 18)
 BY ATC
 NOT FOR FLIGHTS CONTINUING VIA AIRWAY Z-10
SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



Initial climb clearance 4000

ROUTING

(800+) - DF158 (K220-) - DF159 (2500+ ①) - DF168 - TUKRU - MTR - TOBAK.

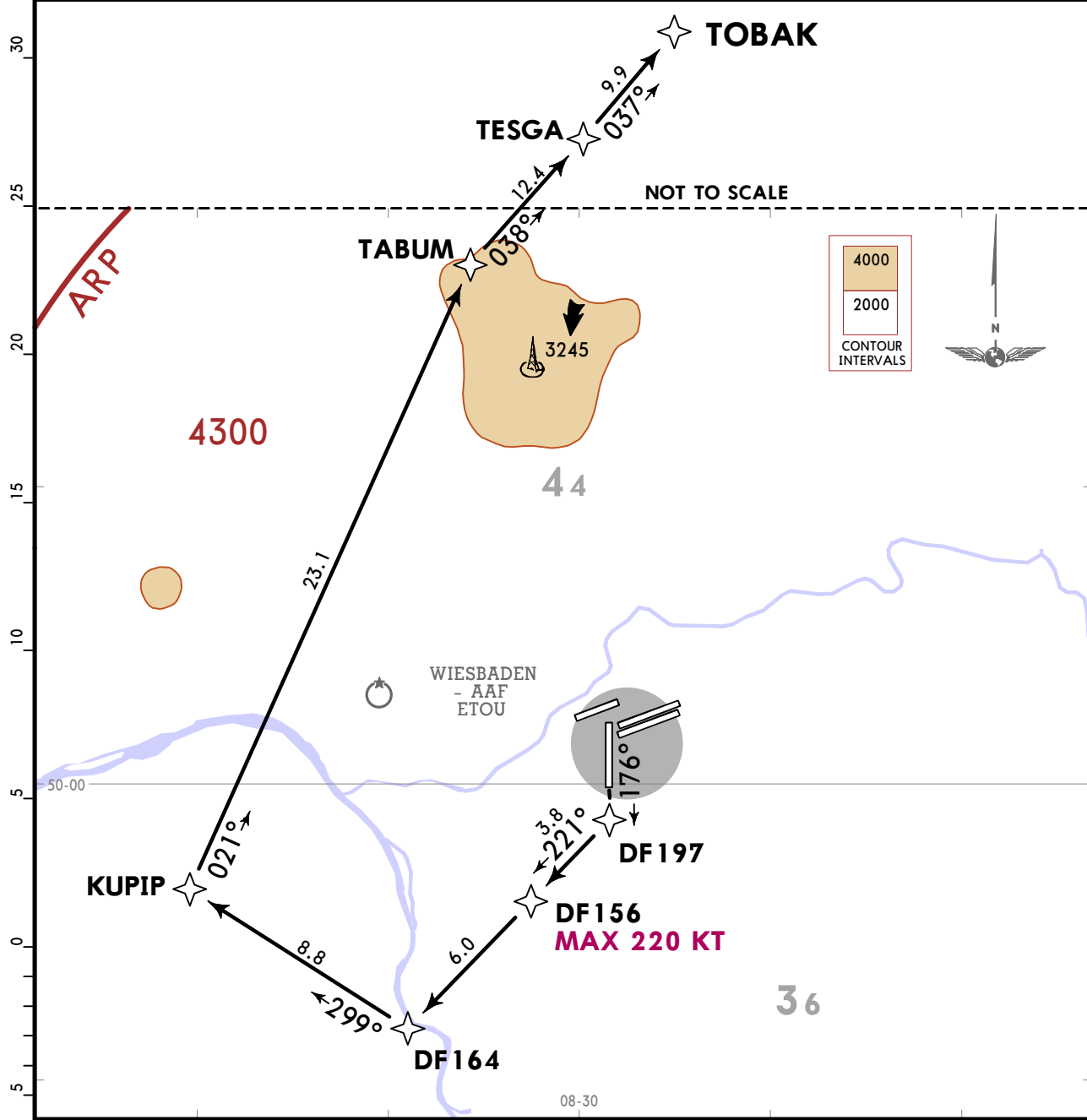
① If unable to comply, advise EDDF DELIVERY prior to start-up.

EDDF/FRA
FRANKFURT/MAIN

JEPPESEN FRANKFURT/MAIN, GERMANY
4 AUG 23 (10-3J1) Eff 10 Aug **RNAV SID**

*LANGEN Radar 120.155	Apt Elev 363	Trans alt: 5000
		RNAV 1 required GPS, DME/DME/IRU DME/DME without IRU not authorized
1. Contact LANGEN Radar when advised by Tower. 2. RADAR required. 3. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 4. For operational RWY use concept refer to 10-1P pages. 5. WARNING: Close-in obstacles. 6. WARNING: Wind shears and increased turbulences must be expected when strong winds. 7. Do not turn before DER.		

TOBAK 1S [TOBA1S]
RNAV DEPARTURE
 (RWY 18)
 WILL ONLY BE ASSIGNED
 WHEN LANDING DIRECTION IS RWY 25
 NOT FOR FLIGHTS CONTINUING VIA AIRWAY Z-10
SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



Initial climb clearance **4000**

ROUTING

(800+) - DF197 - DF156 (K220-) - DF164 - KUPIP - TABUM - TESGA - TOBAK.

EDDF/FRA
FRANKFURT/MAIN

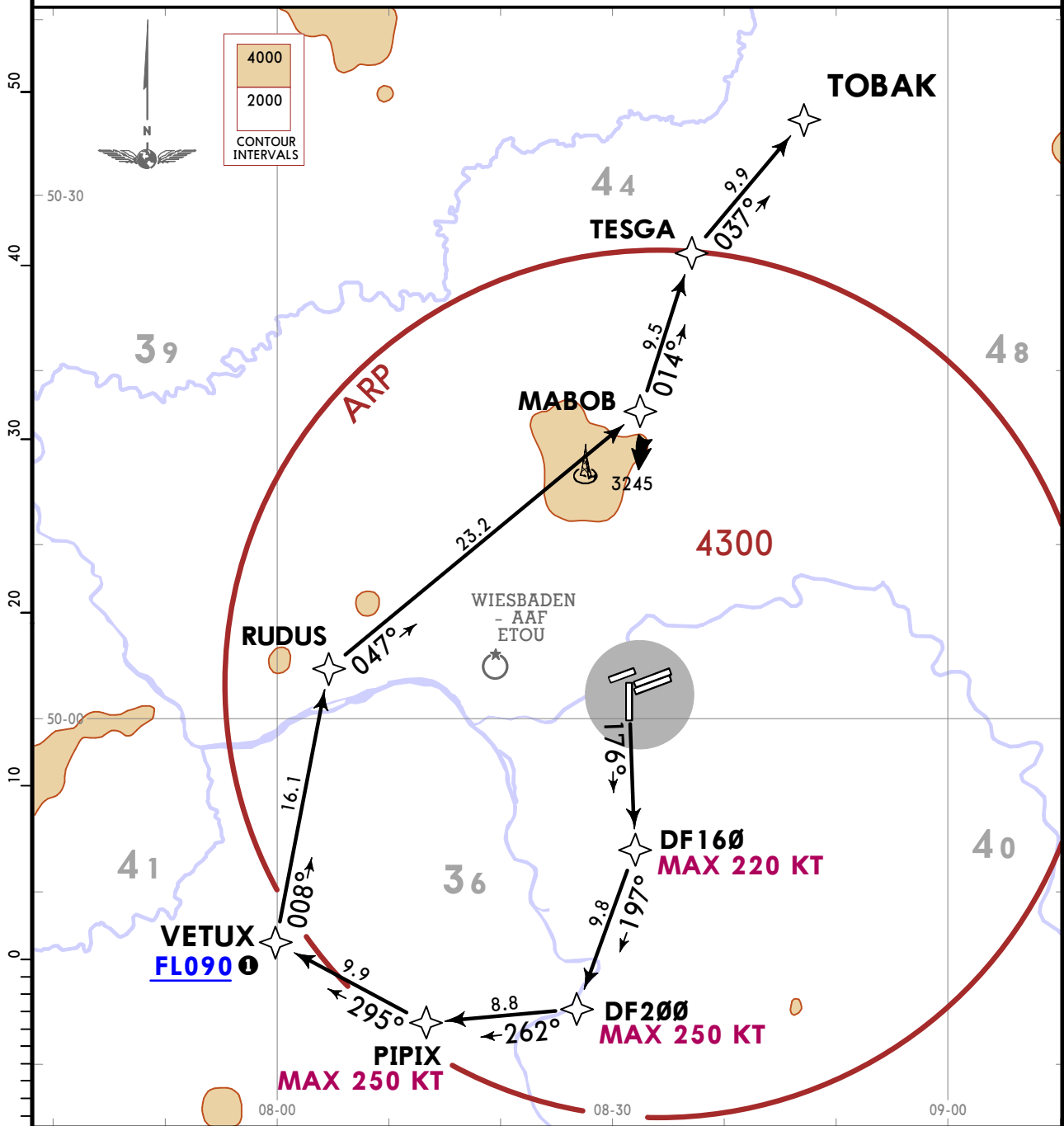
JEPPESSEN FRANKFURT/MAIN, GERMANY
4 AUG 23 **10-3K** **Eff 10 Aug** **RNAV SID**

*LANGEN Radar 136.130	Trans alt: 5000 RNAV 1 required GPS, DME/DME/IRU DME/DME without IRU not authorized
Apt Elev 363	1. Contact LANGEN Radar when advised by Tower. 2. RADAR required. 3. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 4. For operational RWY use concept refer to 10-1P pages. 5. WARNING: Close-in obstacles. 6. WARNING: Wind shears and increased turbulences must be expected when strong winds. 7. Do not turn before DER.

TOBAK 8T [TOBA8T]
RNAV DEPARTURE
(RWY 18)

NOT FOR FLIGHTS CONTINUING VIA AIRWAY Z-10

SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



Initial climb clearance 4000

ROUTING

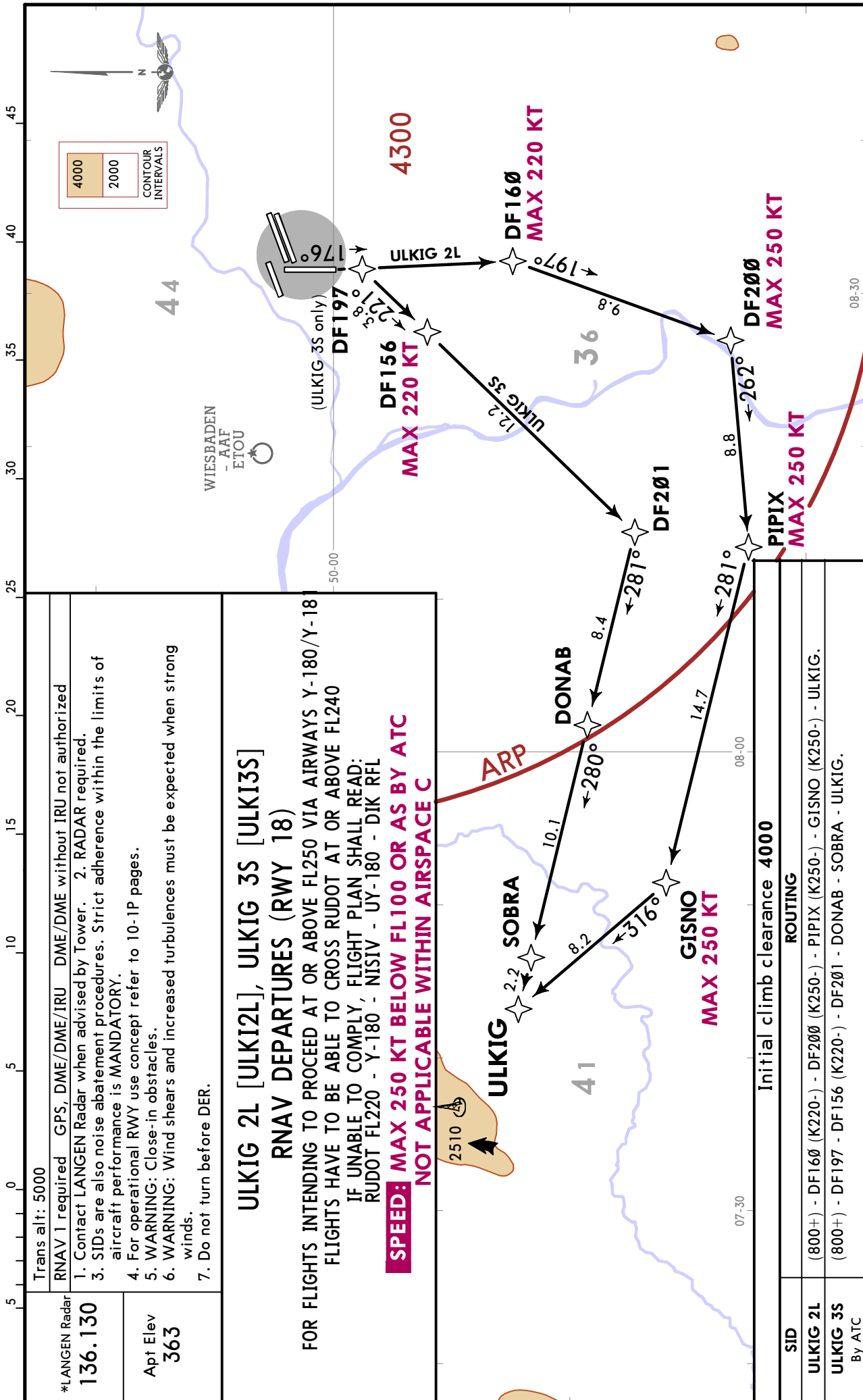
(800+) - DF160 (K220-) - DF200 (K250-) - PIPIX (K250-) - VETUX (FL090+ (1)) - RUDUS - MABOB - TESGA - TOBAK.

(1) If unable to comply, advise EDDF DELIVERY prior to start-up.

EDDF/FRA
FRANKFURT/MAIN

JEPPESSEN FRANKFURT/MAIN, GERMANY
4 AUG 23 10-3L Eff 10 Aug

RNAV SID



EDDF/FRA
FRANKFURT/MAIN

JEPPESEN FRANKFURT/MAIN, GERMANY
4 AUG 23 (10-3L1) Eff 10 Aug SID

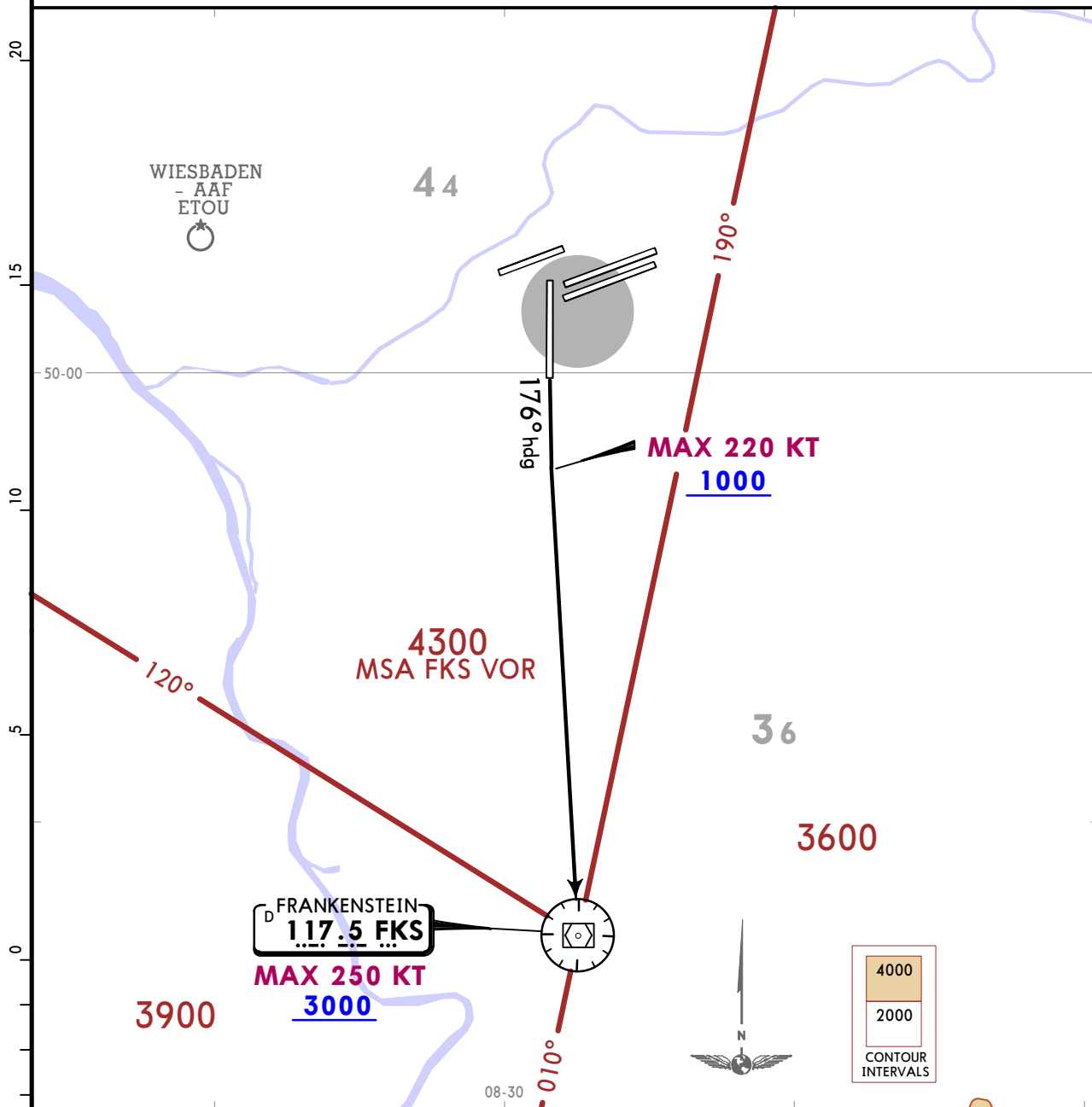
*LANGEN
Radar
136.130

Apt Elev
363

- Trans alt: 5000
1. Contact LANGEN Radar when advised by Tower.
 2. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY.
 3. WARNING: Close-in obstacles.
 4. WARNING: Wind shears and increased turbulences must be expected when strong winds
 5. For operational RWY use concept refer to 10-1P pages.

FRANKENSTEIN 1B (FKS 1B)
DEPARTURE
(RWY 18)
BY ATC

**SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C**



This SID requires a minimum climb gradient of 3.5% until FKS.

Gnd speed-KT	75	100	150	200	250	300
3.5% V/V (fpm)	266	354	532	709	886	1063

Initial climb clearance **4000**

ROUTING

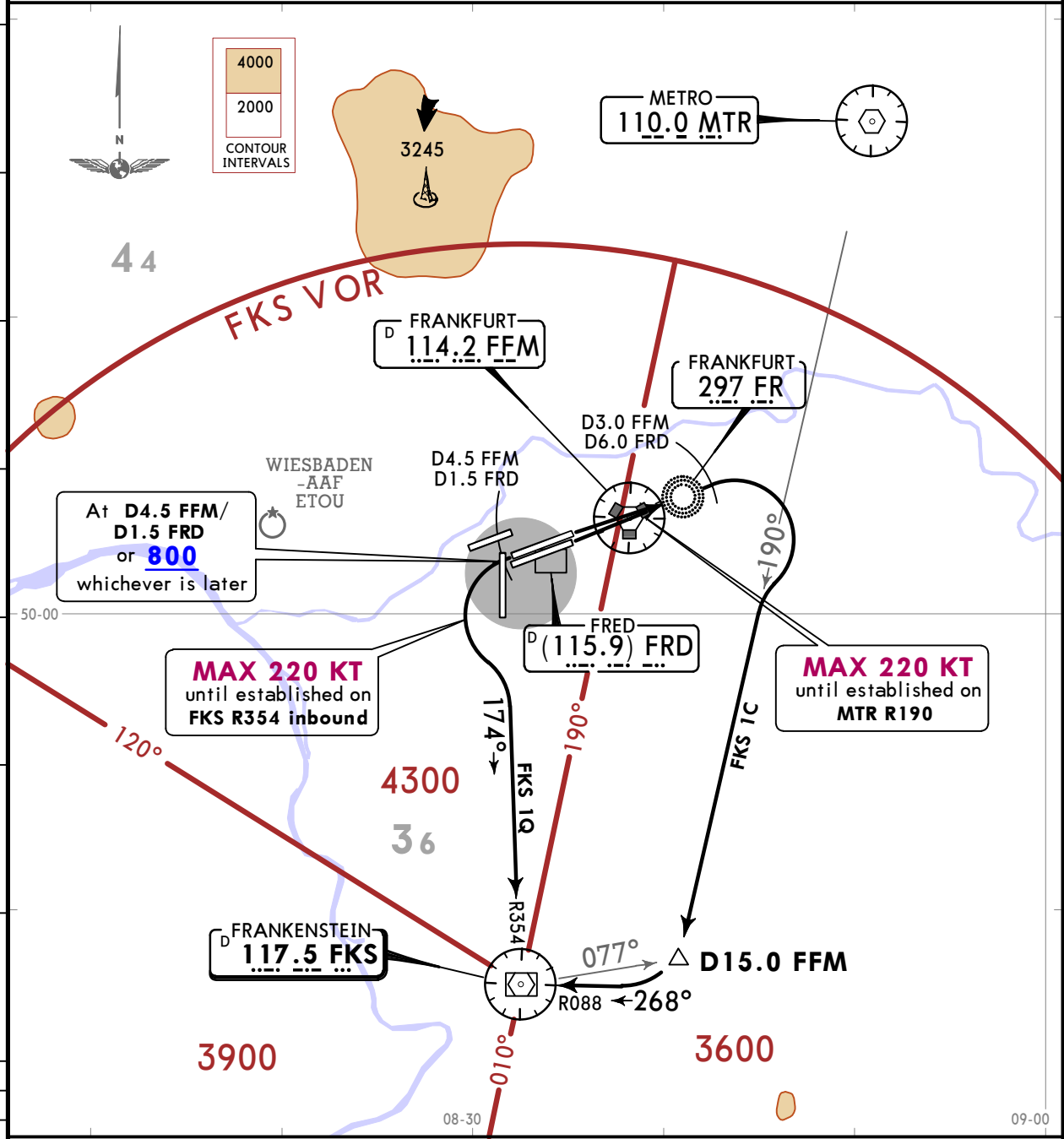
Climb on 176° heading to at or above 1000, direct to FKS.

EDDF/FRA
FRANKFURT/MAIN

JEPPESSEN FRANKFURT/MAIN, GERMANY
4 AUG 23 **10-3L2** **Eff 10 Aug** **SID**

*LANGEN Radar 136.130	Apt Elev 363	Trans alt: 5000 1. Contact LANGEN Radar when advised by Tower. 2. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 3. RWYS 07C/R: WARNING: Close-in obstacles. 4. For operational RWY use concept refer to 10-1P pages.
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FRANKENSTEIN 1C (FKS 1C)
FRANKENSTEIN 1Q (FKS 1Q)
DEPARTURES (RWYS 07C/R, 25L/C)
 BY ATC
SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



FKS 1C: Initial climb clearance 4000
FKS 1Q: Initial climb clearance 5000

SID	RWY	ROUTING
FKS 1C	07C/R	Climb on runway track to 800, via FR to D6.0 FRD (D3.0 FFM outbound), turn RIGHT, intercept MTR R190 to D15.0 FFM, turn RIGHT, intercept FKS R088 inbound to FKS.
FKS 1Q	25L/C	Climb on runway track to D4.5 FFM/D1.5 FRD or 800, whichever is later, turn LEFT, intercept FKS R354 inbound to FKS.

FRANKFURT/MAIN, GERMANY **SID**

EDDF/FRA
FRANKFURT/MAIN
10-3L3 Eff 2 Nov
JEPPesen
27 OCT 23

Trans alt: 5000
1. Contact LANGEN Radar when advised by Tower.
2. **WARNING:** Close-in obstacles. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is **MANDATORY**.
4. For operational RWY use concept refer to 10-1P pages.

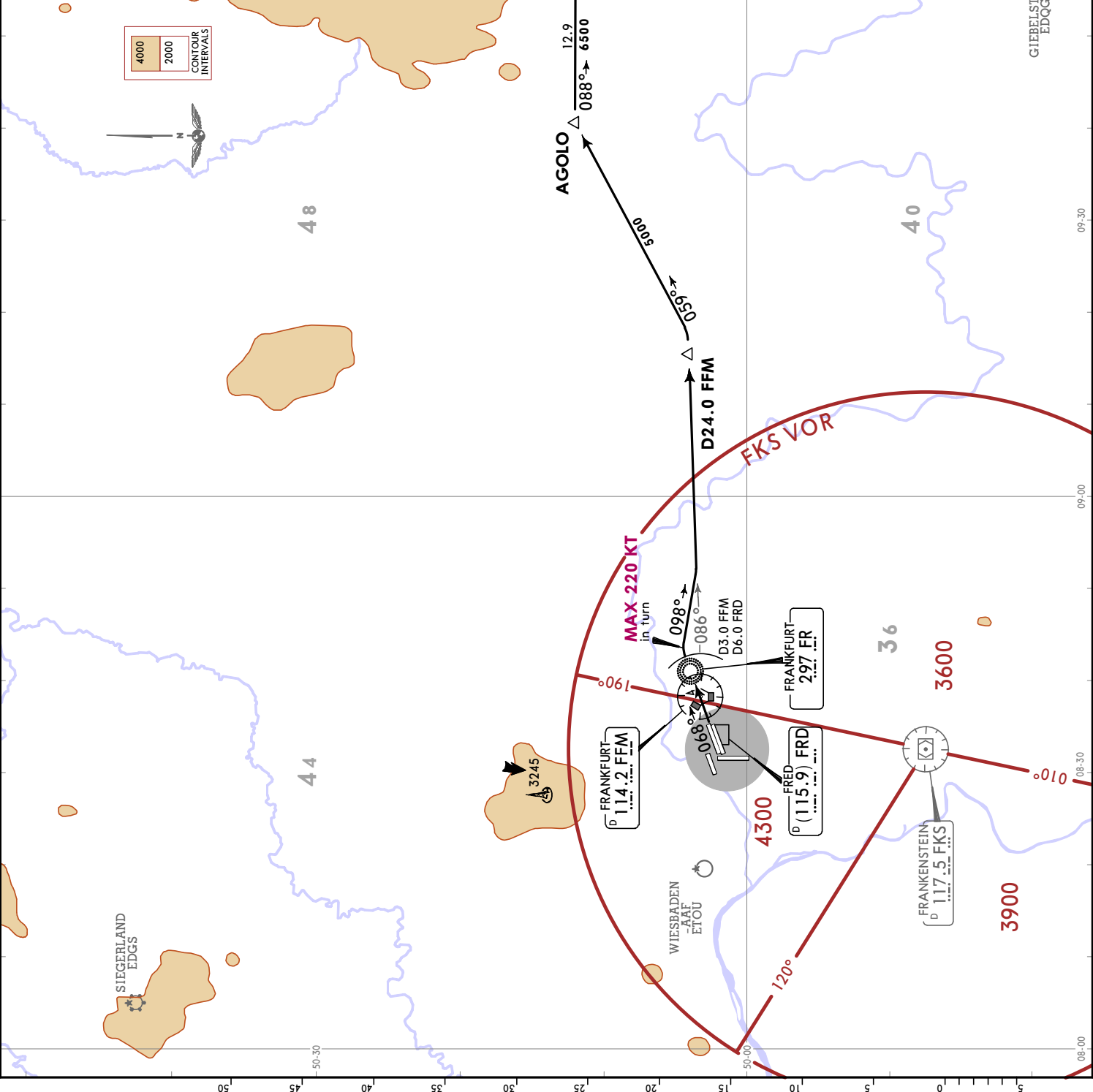
Apt Elev
363

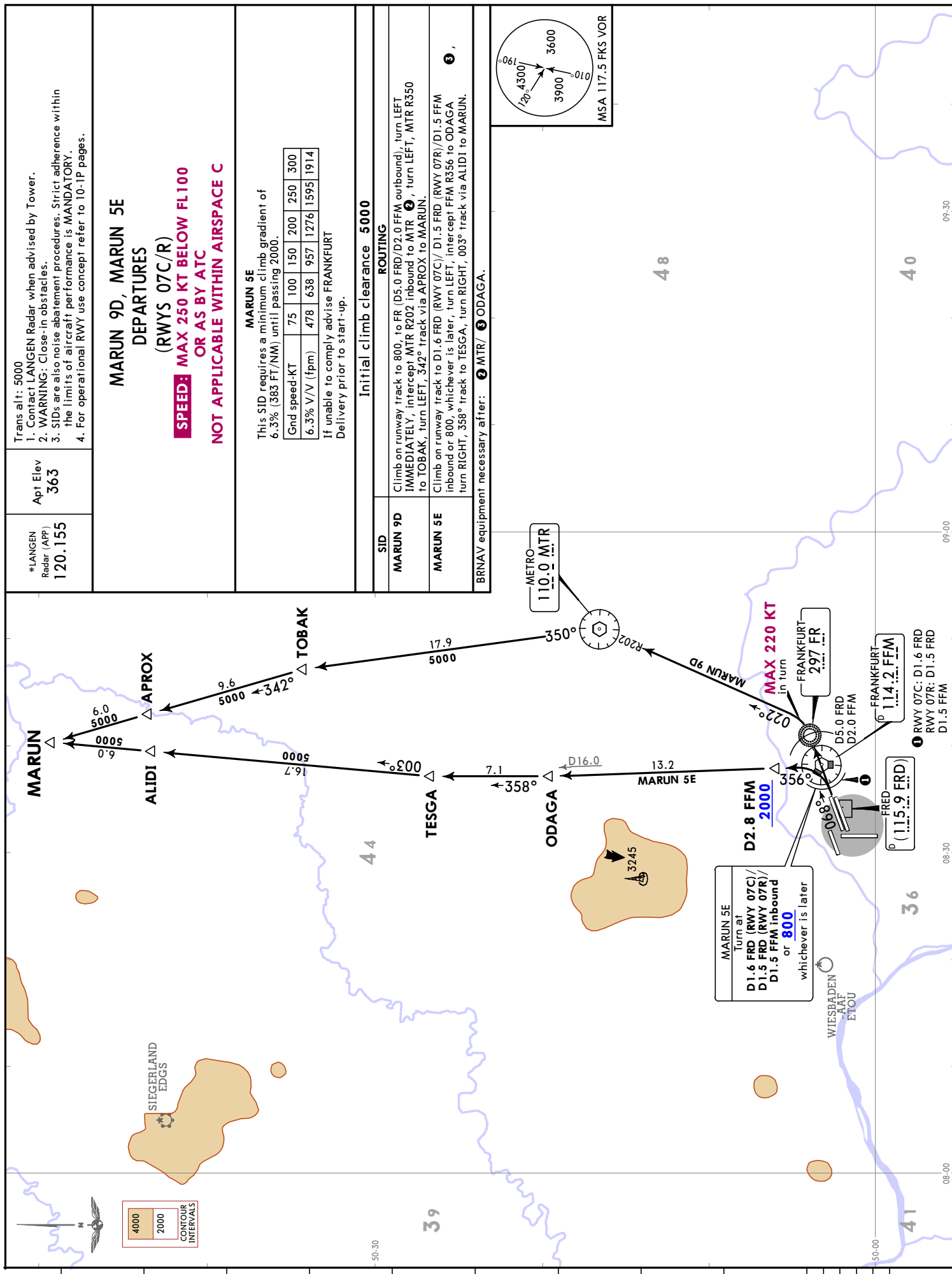
*LANGEN Radar (APP)
136.130

KOMIB 3D
DEPARTURE (RWYS 07C/R)
ONLY FOR FLIGHTS TERMINATING WITHIN EDDN AREA
SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C

Initial climb clearance **4000**

ROUTING
Climb on runway track to 800, via FR to D6.0 FRD (D3.0 FFM outbound), turn RIGHT, 098° track, turn LEFT, intercept FFM R086 to D24.0 FFM, turn LEFT, 059° track to AGOLO, turn RIGHT, 088° track to OKTUM, turn RIGHT, 128° track to KOMIB.
① After D24.0 FFM BRNAV equipment necessary.





Trans alt: 5000
1. Contact LANGEN Radar when advised by Tower.
2. WARNING: Close-in obstacles.
3. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY.
4. For operational RWY use concept refer to 10-1P pages.

*LANGEN Radar (APP) 120.155
Apt Elev 363

MARUN 9D, MARUN 5E DEPARTURES (RWYS 07C/R)
SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C

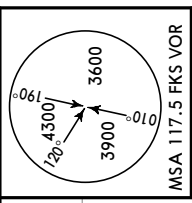
MARUN 5E
This SID requires a minimum climb gradient of 6.3% (383 FT/NM) until passing 2000.

Grd speed-KT	75	100	150	200	250	300
6.3% V/V (fpm)	478	638	957	1276	1595	1914

If unable to comply advise FRANKFURT Delivery prior to start-up.

Initial climb clearance **5000**
ROUTING

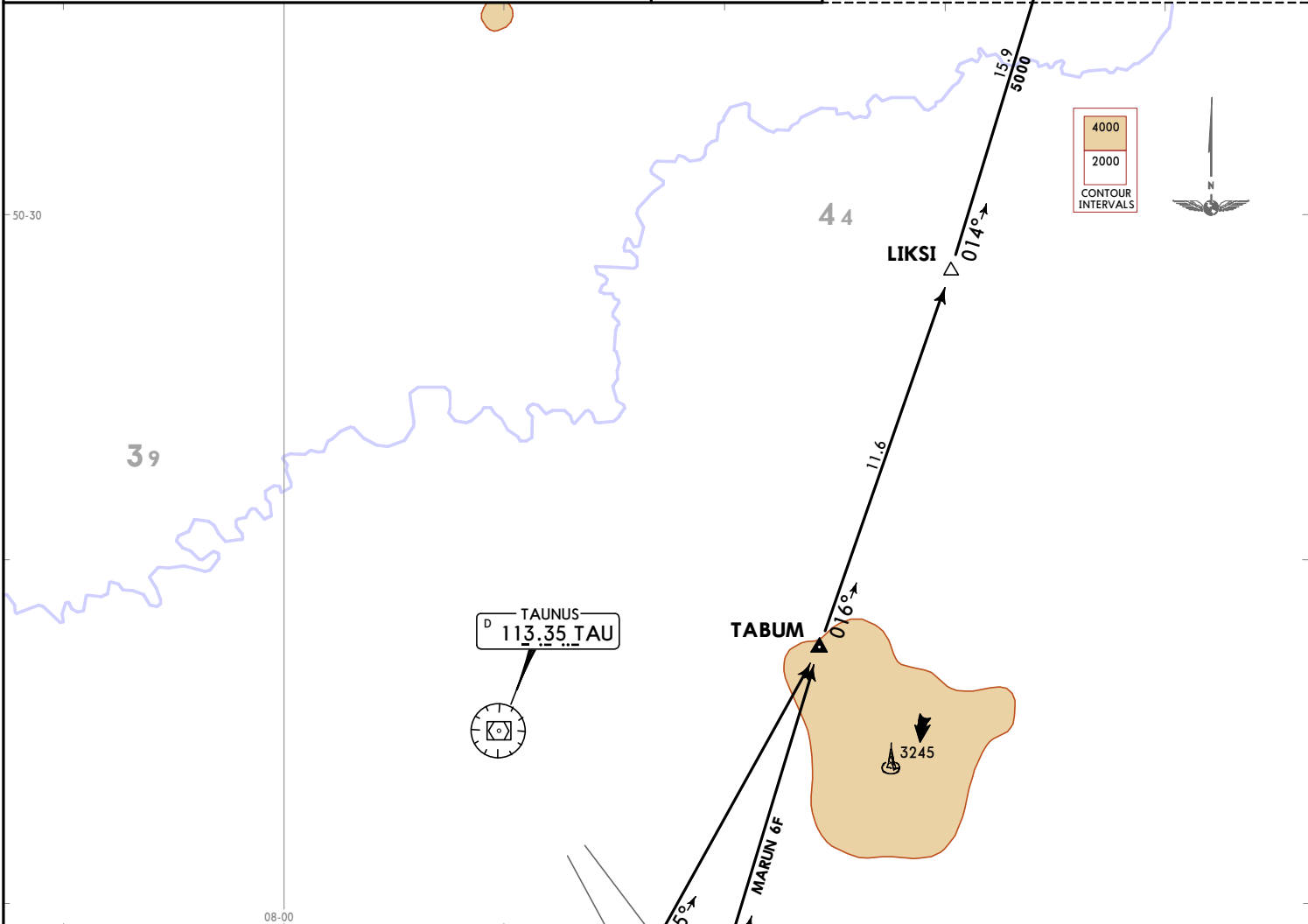
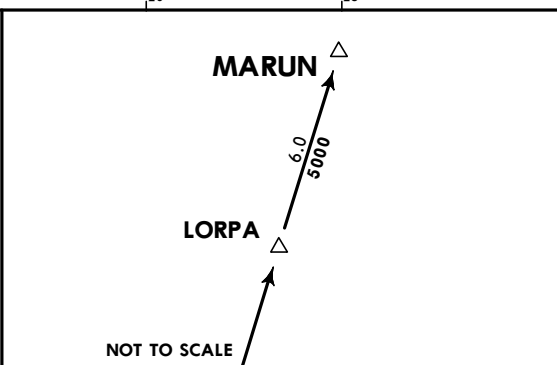
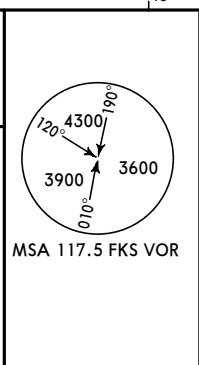
SID
MARUN 9D Climb on runway track to 800, to FR (D5.0 FRD/D2.0 FFM outbound), turn LEFT IMMEDIATELY, intercept MTR R202 inbound to MTR ②, turn LEFT, MTR R350 to TOBAK, turn LEFT, 342° track via APROX to MARUN.
MARUN 5E Climb on runway track to D1.6 FRD (RWY 07C) // D1.5 FRD (RWY 07R) // D1.5 FFM inbound or 800, whichever is later, turn LEFT, intercept FFM R356 to ODAGA turn RIGHT, 358° track to TESGA, turn RIGHT, 003° track via ALIDI to MARUN.
BRNAV equipment necessary after: ② MTR/ ③ ODAGA.



CHANGES: MSA, chart reindexed.

EDDF / FRA
FRANKFURT / MAIN
JEPPESSEN
10-3L5
4 AUG 23
4th 10 Aug

*LANGEN Radar 120.155	Apt Elev 363	Trans alt: 5000 1. Contact LANGEN Radar when advised by Tower. 2. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 3. For operational RWY use concept refer to 10-1P pages.
MARUN 6F MARUN 1G DEPARTURES (RWYS 25L/C) SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC NOT APPLICABLE WITHIN AIRSPACE C		



MARUN 6F

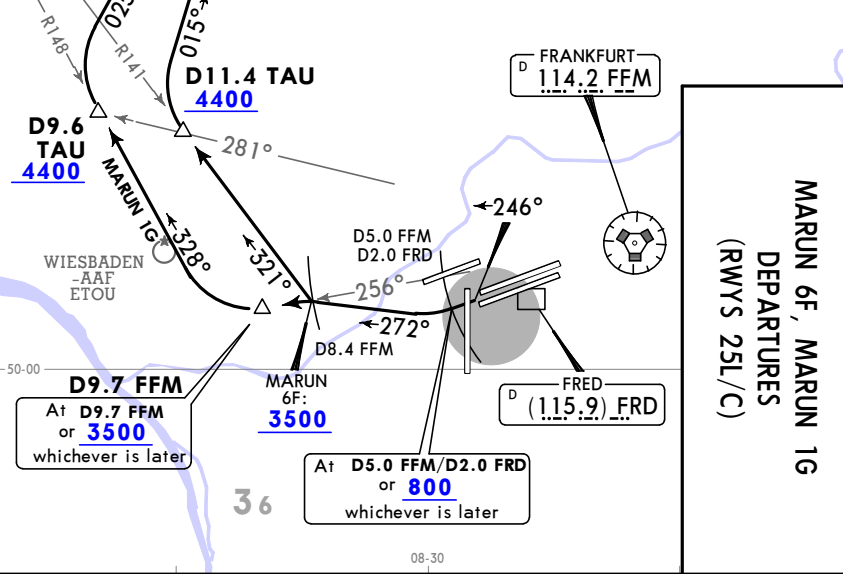
This SID requires a minimum climb gradient of 12.0% (729 FT/NM) until D8.4 FFM (4.5 NM after DER) due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
12.0% V/V (fpm)	911	1215	1823	2430	3038	3646

If unable to comply advise FRANKFURT Delivery prior to start-up

Initial climb clearance 5000	
SID	ROUTING
MARUN 6F	Climb on runway track to D5.0 FFM/D2.0 FRD or 800, whichever is later, turn RIGHT, 272° track (RWY 25L: 277° track) to D8.4 FFM, turn RIGHT, intercept TAU R141 inbound to D11.4 TAU ①, turn RIGHT, 015° track to TABUM, turn RIGHT, 016° track to LIKSI, turn LEFT, 014° track via LORPA to MARUN.
MARUN 1G	Climb on runway track to D5.0 FFM/D2.0 FRD or 800, whichever is later, turn RIGHT, 272° track (RWY 25L: 277° track), intercept FFM R256 to D9.7 FFM or 3500, whichever is later, turn RIGHT, intercept TAU R148 inbound to D9.6 TAU ②, turn RIGHT, 025° track to TABUM, turn LEFT, 016° track to LIKSI, turn LEFT, 014° track via LORPA to MARUN.

RNAV 5 equipment necessary after: ① D11.4 TAU/ ② D9.6 TAU.



FRANKFURT / MAIN, GERMANY
SID

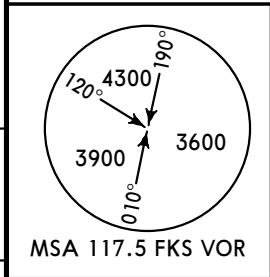
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EDDF/FRA
FRANKFURT/MAIN

JEPPESEN FRANKFURT/MAIN, GERMANY
4 AUG 23 10-3L6 Eff 10 Aug SID

*LANGEN Radar 120.155	Apt Elev 363	Trans alt: 5000 1. Contact LANGEN Radar when advised by Tower. 2. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 3. For operational RWY use concept refer to 10-1P pages.
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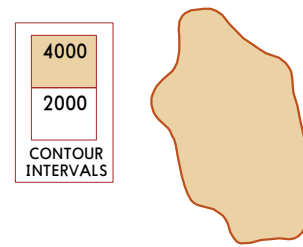
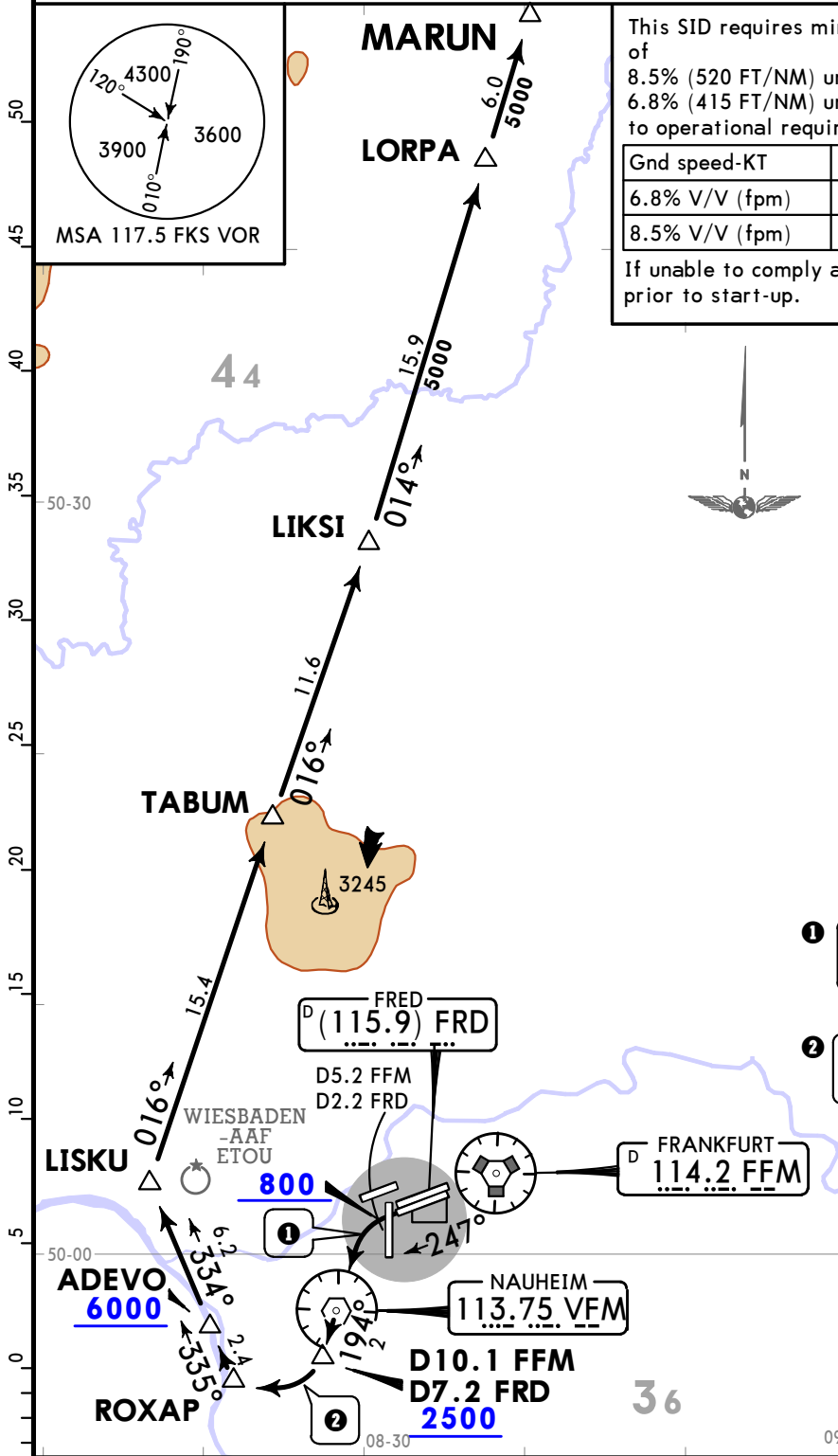
MARUN 5H
DEPARTURE (RWY 25L)
SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



This SID requires minimum climb gradients of
8.5% (520 FT/NM) until passing 800, then
6.8% (415 FT/NM) until passing 6000 due
to operational requirements.

Gnd speed-KT	75	100	150	200	250	300
6.8% V/V (fpm)	516	689	1033	1377	1722	2066
8.5% V/V (fpm)	646	861	1291	1722	2152	2582

If unable to comply advise FRANKFURT Delivery prior to start-up.



- 1 MAX 200 KT until VFM
- 2 MAX 230 KT until passing ROXAP

Initial climb clearance **FL070**

ROUTING
On runway track to D5.2 FFM/D2.2 FRD, turn LEFT direct to VFM, VFM R194 to D10.1 FFM/D7.2 FRD turn RIGHT to ROXAP, to ADEVO, to LISKU, to TABUM, to LIKSI, to LORPA, to MARUN. 3

3 After D10.1 FFM/D7.2 FRD RNAV 5 equipment necessary.

EDDF/FRA
FRANKFURT/MAIN

JEPPesenFRANKFURT/MAIN, GERMANY
4 AUG 23 **10-3L7** **Eff 10 Aug** **SID**

*LANGEN Radar
120.155

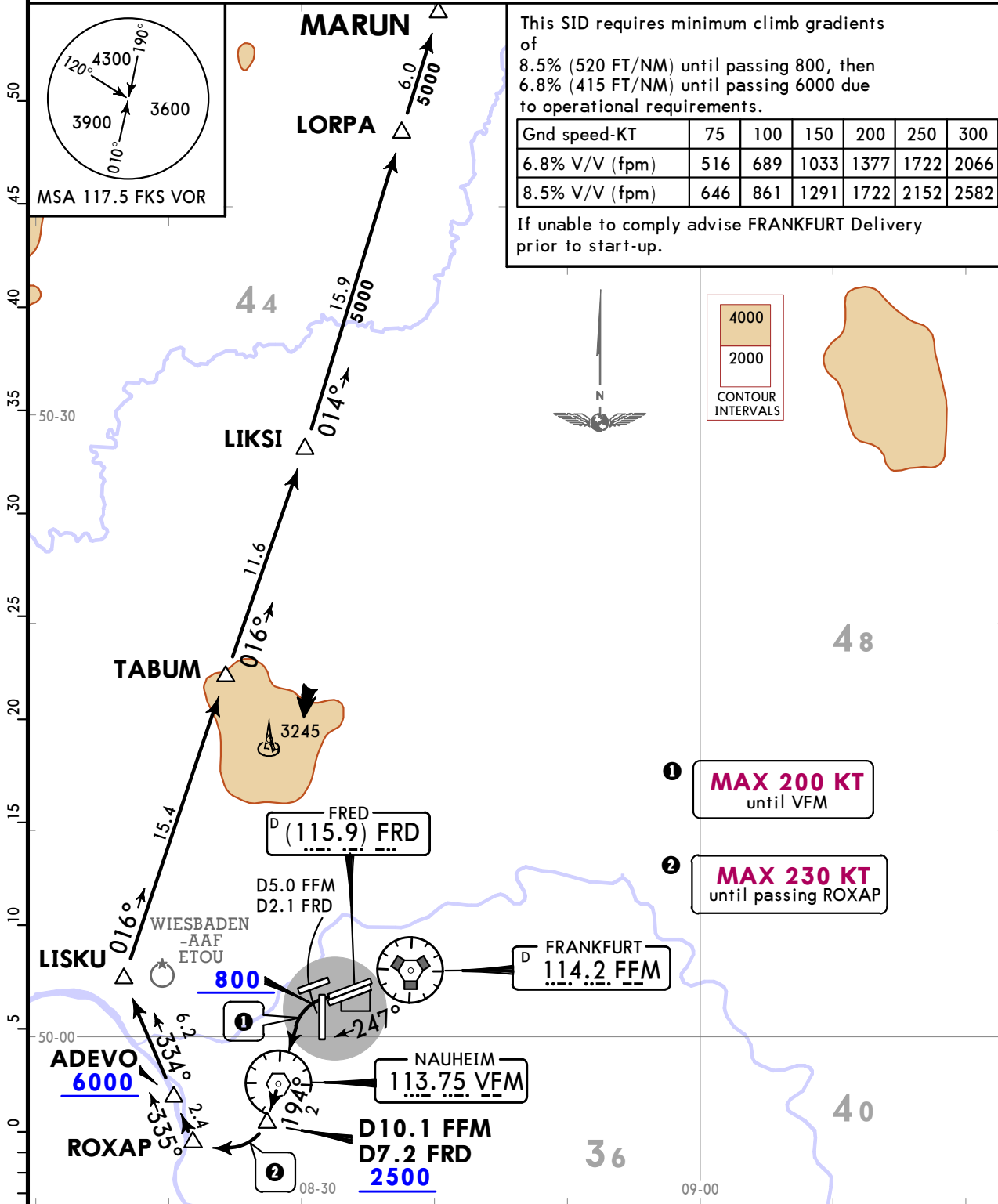
Apt Elev
363

Trans alt: 5000
1. Contact LANGEN Radar when advised by Tower.
2. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY.
3. For operational RWY use concept refer to 10-1P pages.

MARUN 7M

DEPARTURE (RWY 25C)

SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



This SID requires minimum climb gradients of
8.5% (520 FT/NM) until passing 800, then
6.8% (415 FT/NM) until passing 6000 due
to operational requirements.

If unable to comply advise FRANKFURT Delivery prior to start-up.

1 **MAX 200 KT**
until VFM

2 **MAX 230 KT**
until passing ROXAP

Initial climb clearance **FL070**

ROUTING

On runway track to D5.0 FFM/D2.1 FRD, turn LEFT direct to VFM, VFM R194 to D10.1 FFM/D7.2 FRD **3**, turn RIGHT to ROXAP, to ADEVO, to LISKU, to TABUM, to LIKSI, to LORPA, to MARUN.

3 After D10.1 FFM/D7.2 FRD RNAV 5 equipment necessary.

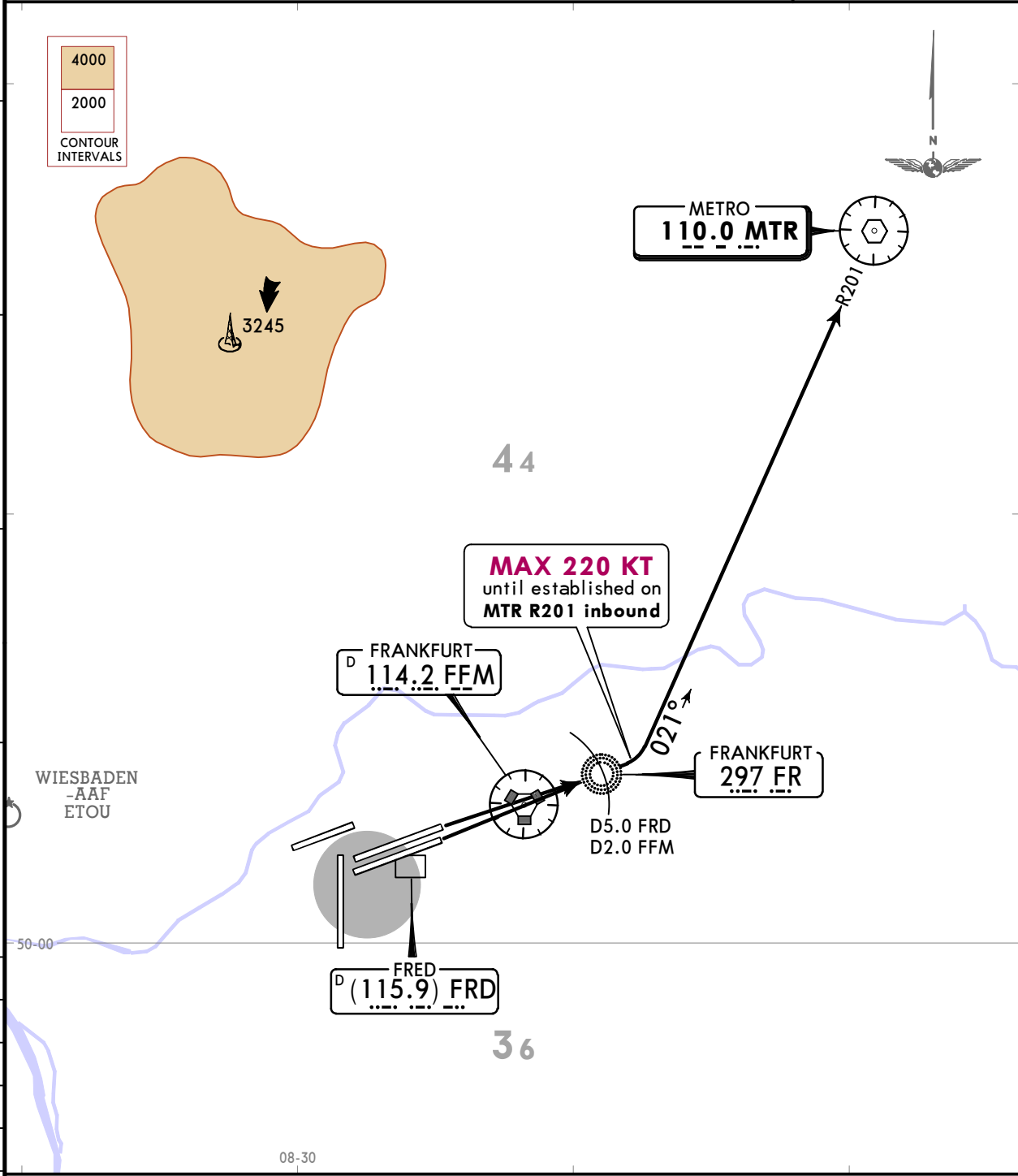
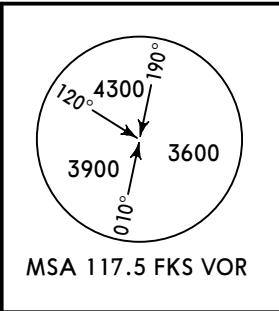
EDDF/FRA
FRANKFURT/MAIN

JEPPESSEN **FRANKFURT/MAIN, GERMANY**
4 AUG 23 **10-3L8** **Eff 10 Aug** **SID**

<p>*LANGEN Radar 120.155</p>	<p>Apt Elev 363</p>	<p>Trans alt: 5000 1. Contact LANGEN Radar when advised by Tower. 2. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 3. WARNING: Close-in obstacles. 4. For operational RWY use concept refer to 10-1P pages.</p>
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METRO 6C (MTR 6C)
DEPARTURE
(RWYS 07C/R)
BY ATC

SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



Initial climb clearance **5000**

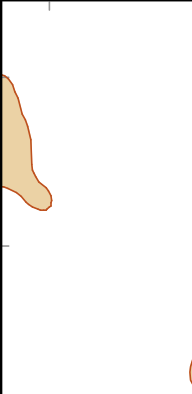
ROUTING

Climb on runway track to 800, direct to FR (D5.0 FRD/D2.0 FFM outbound), turn LEFT IMMEDIATELY, intercept MTR R201 inbound to MTR.

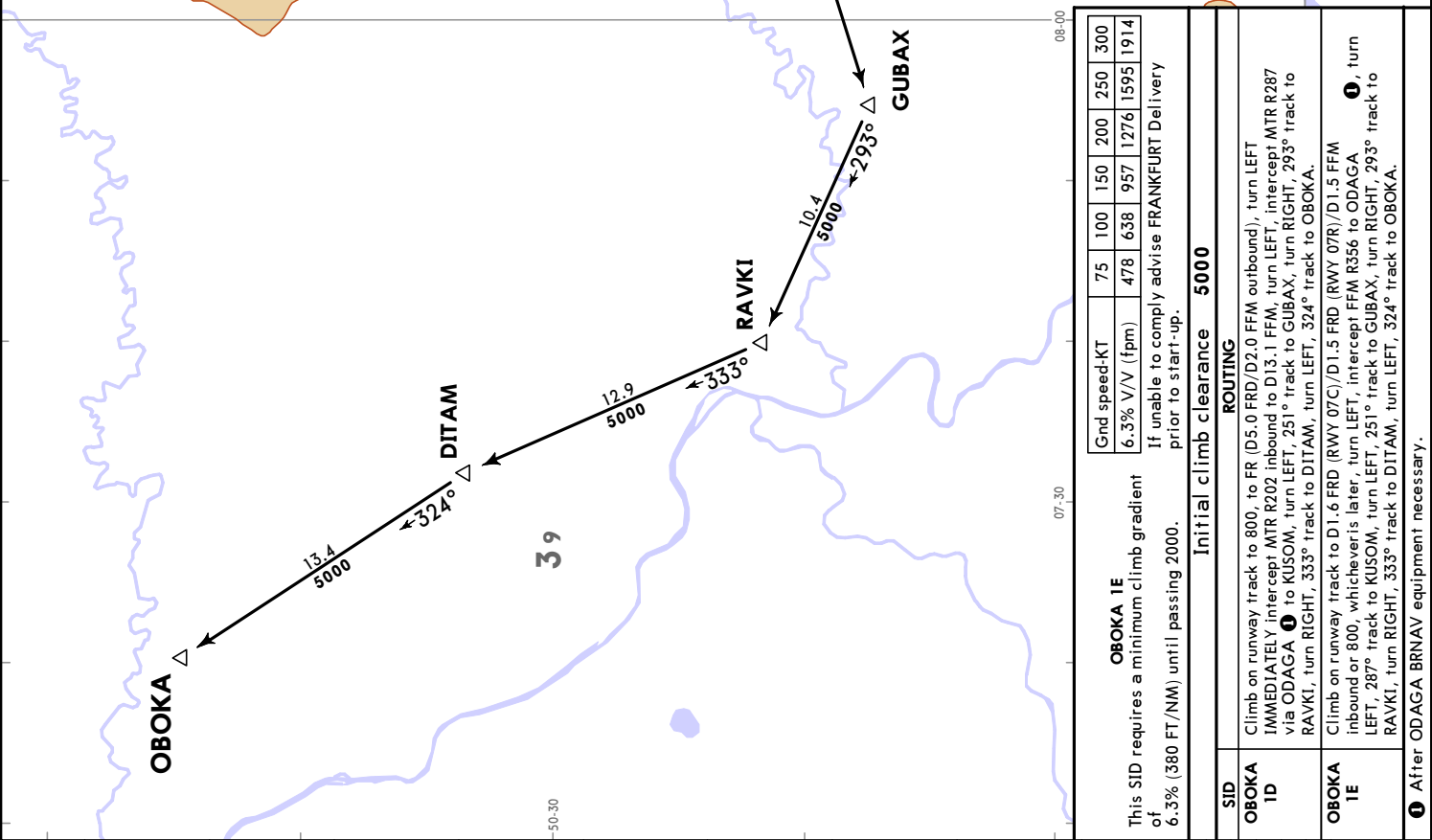
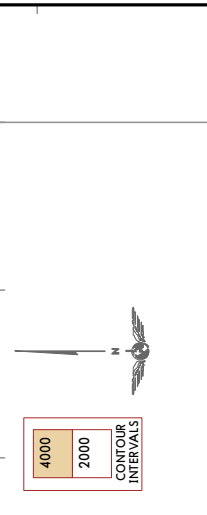
Trans alt: 5000
1. Contact LANGEN Radar when advised by Tower.
2. WARNING: Close-in obstacles.
3. SIDs are also noise abatement procedures. Strict adherence within is MANDATORY.
4. For operational RWY use concept refer to 10-1P pages.

Apt Elev
363

*LANGEN Radar (APP)
120.155



OBOKA 1D, OBOKA 1E DEPARTURES (RWYS 07C/R)
FLIGHTS HAVE TO BE ABLE TO CROSS OBOKA AT OR ABOVE FL170 EXCEPT FLIGHTS TO EDDK IF UNABLE TO COMPLY ADVISE EDDF DELIVERY PRIOR TO START-UP
SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



Grnd speed-KT	75	100	150	200	250	300
6.3% V/V (fpm)	478	638	957	1276	1595	1914

If unable to comply advise FRANKFURT Delivery prior to start-up.

Initial climb clearance 5000

SID	ROUTING
OBOKA 1D	Climb on runway track to 800, to FR (D5.0 FRD/D2.0 FFM outbound), turn LEFT IMMEDIATELY intercept MTR R202 inbound to D13.1 FFM, turn LEFT, intercept MTR R287 via ODAGA 1 to KUSOM, turn LEFT, 251° track to GUBAX, turn RIGHT, 293° track to RAVKI, turn RIGHT, 333° track to DITAM, turn LEFT, 324° track to OBOKA.
OBOKA 1E	Climb on runway track to D1.6 FRD (RWY 07C)/D1.5 FRD (RWY 07R)/D1.5 FFM inbound or 800, whichever is later, turn LEFT, intercept FFM R356 to ODAGA LEFT, 287° track to KUSOM, turn LEFT, 251° track to GUBAX, turn RIGHT, 293° track to RAVKI, turn RIGHT, 333° track to DITAM, turn LEFT, 324° track to OBOKA.

1 After ODAGA BRNAV equipment necessary.

JEPPESEN
EDDF/FRA
FRANKFURT/MAIN
 27 OCT 23 (10-3N) Eff 2 Nov
SID

Trans alt: 5000
 1. Contact LANGEN Radar when advised by Tower.
 2. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY.
 3. For operational RWY use concept refer to 10-1P pages.

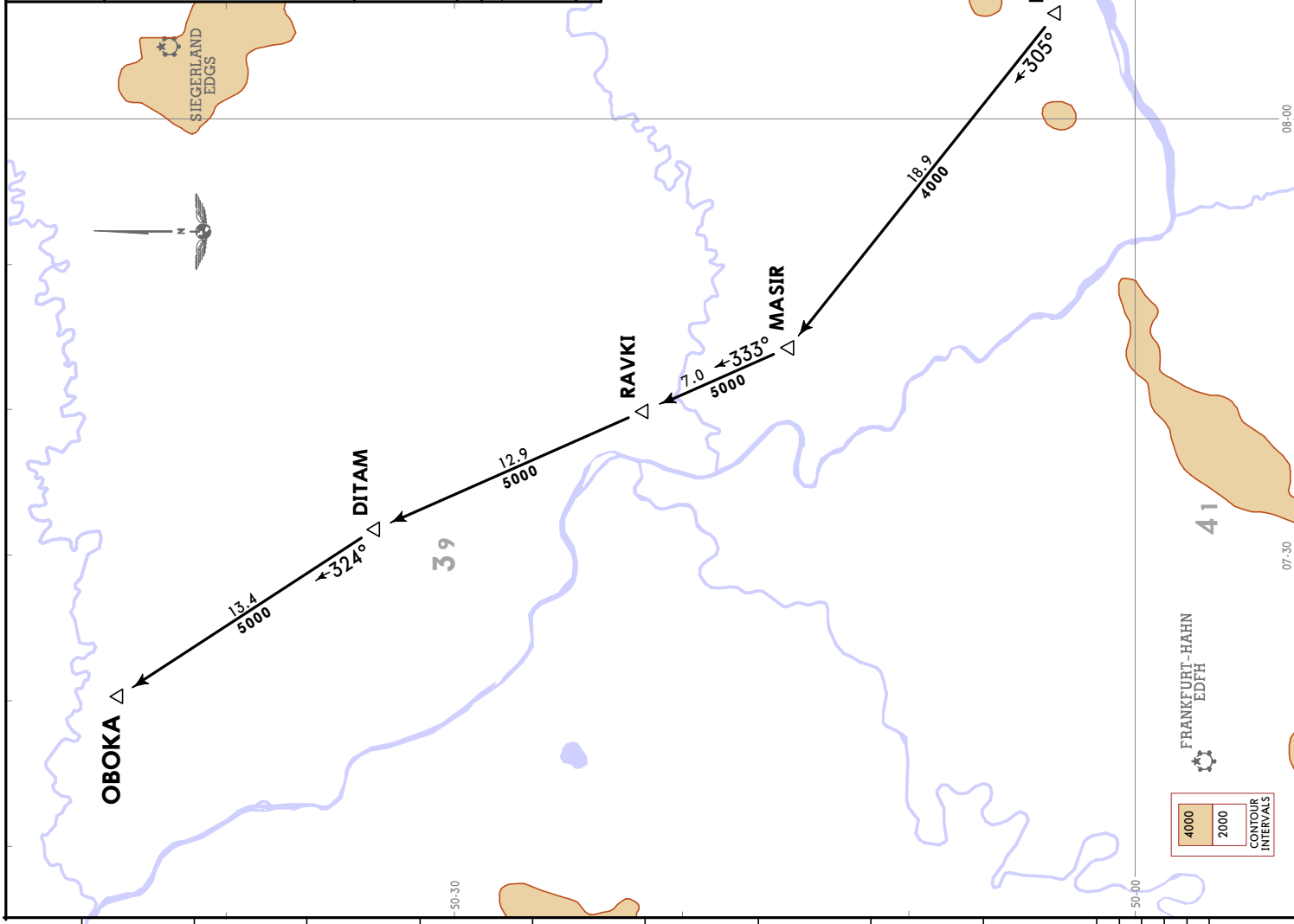
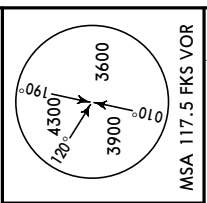
OBOKA 3G
DEPARTURE (RWYS 25L/C)
 FLIGHTS HAVE TO BE ABLE TO CROSS OBOKA AT OR ABOVE FL170 EXCEPT FLIGHTS TO EDDK IF UNABLE TO COMPLY
 ADVISE EDDF DELIVERY PRIOR TO START-UP
SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C

This SID requires a minimum climb gradient of 5.8% (350 FT/NM) until passing 3600, due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
5.8% V/V (fpm)	441	587	881	1175	1468	1762

If unable to comply advise FRANKFURT Delivery prior to start-up.

ROUTING
 Initial climb clearance **5000**
 Climb on runway track to D5.0 FFM/D2.0 FRD or 800, whichever is later, turn RIGHT, 272° track (RWY 25L: 277° track), intercept FFM R256 to D13.7 FFM ESUPI, turn RIGHT, 305° track to MASIR, turn RIGHT, 333° track via RAVKI to DITAM, turn LEFT, 324° track to OBOKA.
 1 After D13.7 FFM RNAV 5 equipment necessary.



FRANKFURT/MAIN, GERMANY

SID

Trans alt: 5000
 1. Contact LANGEN Radar when advised by Tower.
 2. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY.
 3. For operational RWY use concept refer to 10-IP pages.

*LANGEN Radar
120.155

Apt Elev
363

MSA 117.5 FKS VOR

OBOKA 2H

DEPARTURE (RWY 25L)

FLIGHTS HAVE TO BE ABLE TO CROSS OBOKA AT OR ABOVE FL170 EXCEPT FLIGHTS TO EDDK IF UNABLE TO COMPLY

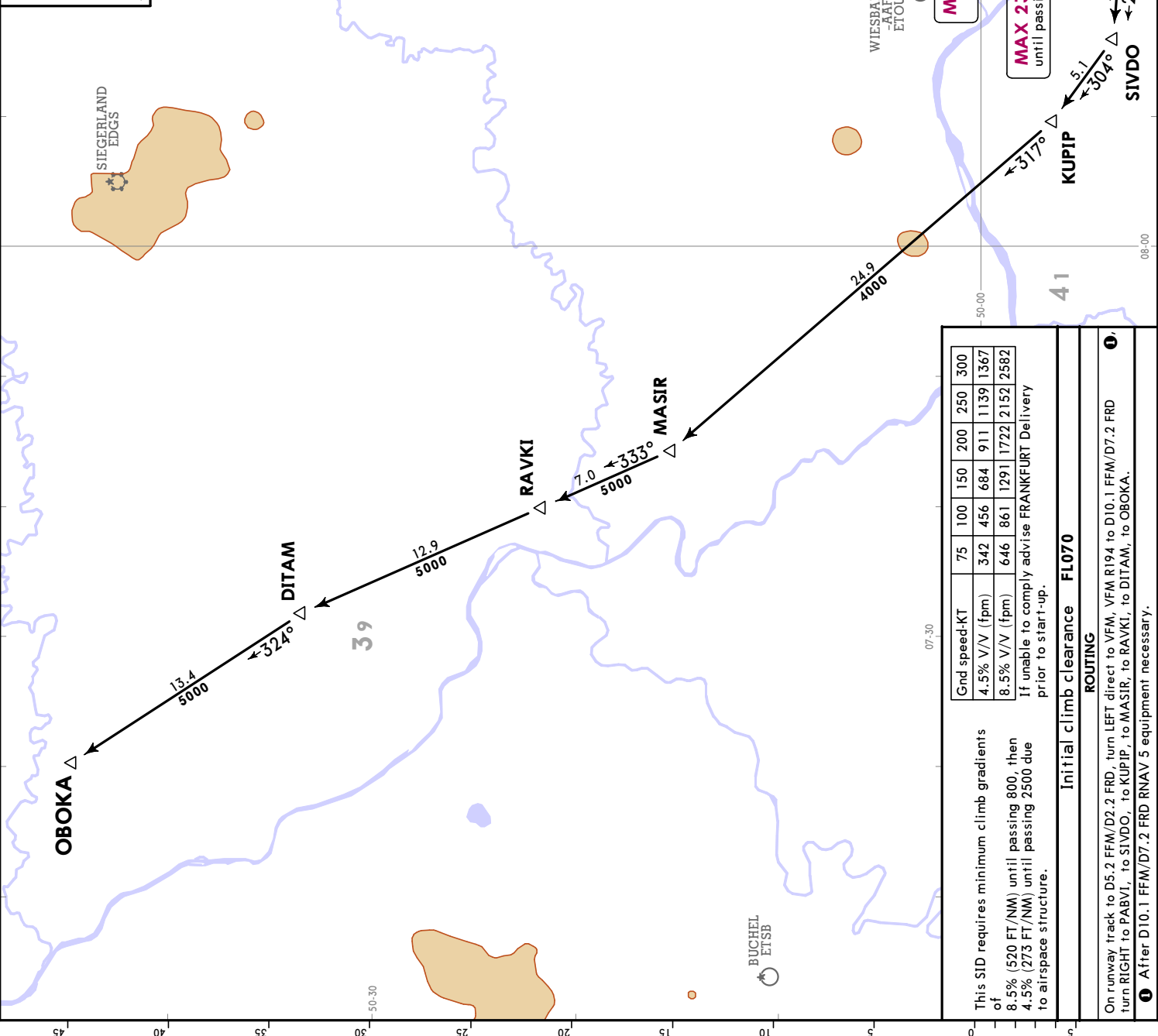
ADVISE EDDF DELIVERY PRIOR TO START-UP

SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC

NOT APPLICABLE WITHIN AIRSPACE C

4000
2000
CONTOUR INTERVALS

44



This SID requires minimum climb gradients of

Gnd speed-KT	75	100	150	200	250	300
4.5% V/V (fpm)	342	456	684	911	1139	1367
8.5% V/V (fpm)	646	861	1291	1722	2152	2582

If unable to comply advise FRANKFURT Delivery prior to start-up.

Initial climb clearance **FL070**

ROUTING

On runway track to D5.2 FFM/D2.2 FRD, turn LEFT direct to VFM, VFM R194 to D10.1 FFM/D7.2 FRD turn RIGHT to PABVI, to SIVDO, to KUPIP, to MASIR, to RAVKI, to DITAM, to OBOKA.

① After D10.1 FFM/D7.2 FRD RNAV 5 equipment necessary.

EDDF/FRA
FRANKFURT/MAIN
10-3N
4 AUG 23
Eff 10 Aug

Trans alt: 5000
 1. Contact LANGEN Radar when advised by Tower.
 2. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY.
 3. For operational RWY use concept refer to 10-IP pages.

*LANGEN Radar
 120.155

Apt Elev
 363

OBOKA 2M
DEPARTURE (RWY 25C)

FLIGHTS HAVE TO BE ABLE TO CROSS OBOKA AT OR ABOVE FL170 EXCEPT FLIGHTS TO EDDK IF UNABLE TO COMPLY ADVISE EDDF DELIVERY PRIOR TO START-UP

SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C

Gnd speed-KT	75	100	150	200	250	300
4.5% V/V (fpm)	342	456	684	911	1139	1367
8.5% V/V (fpm)	646	861	1291	1722	2152	2582

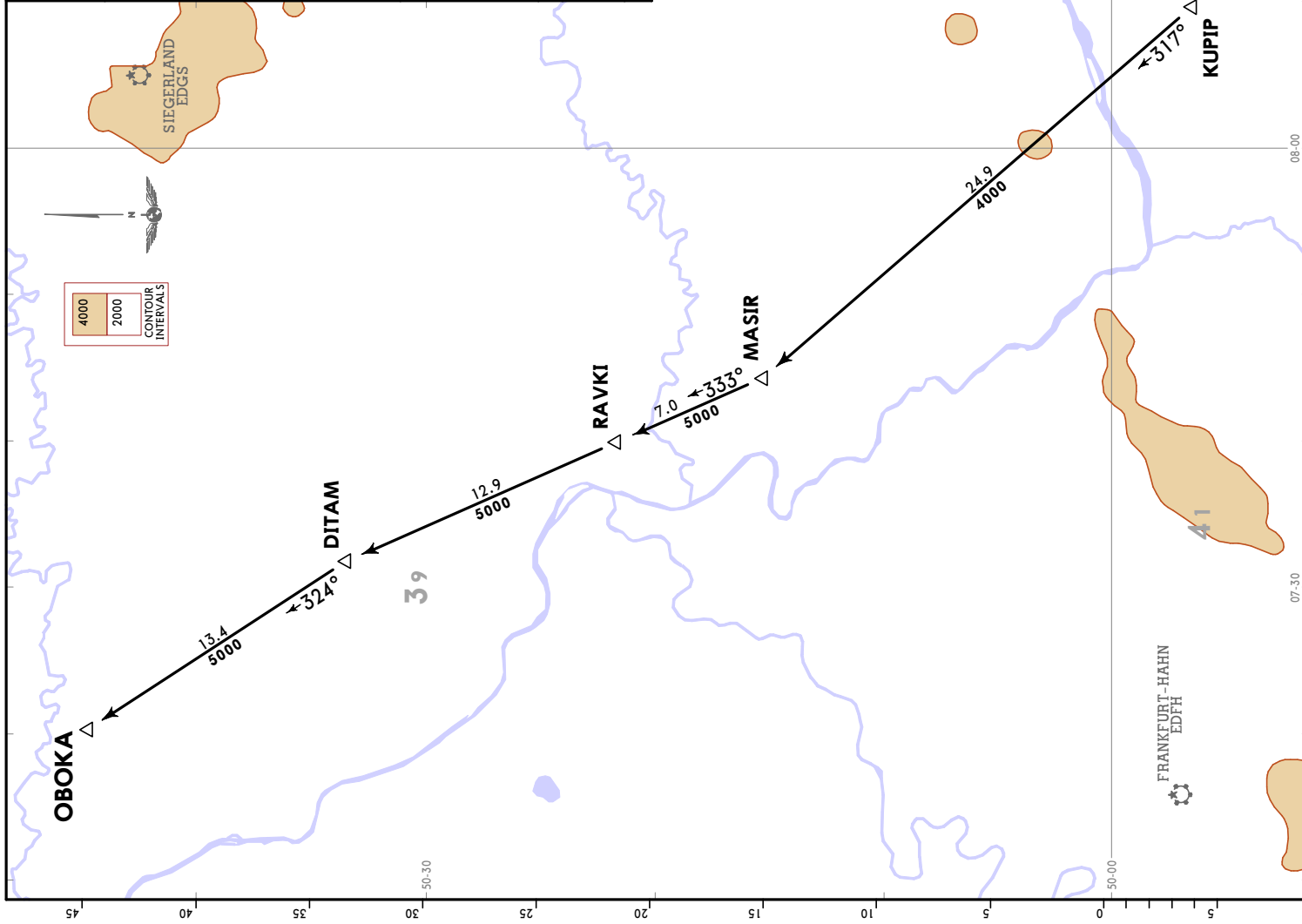
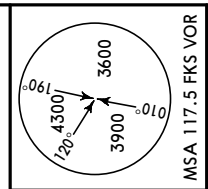
If unable to comply advise FRANKFURT Delivery prior to start-up.

Initial climb clearance **FL070**

ROUTING

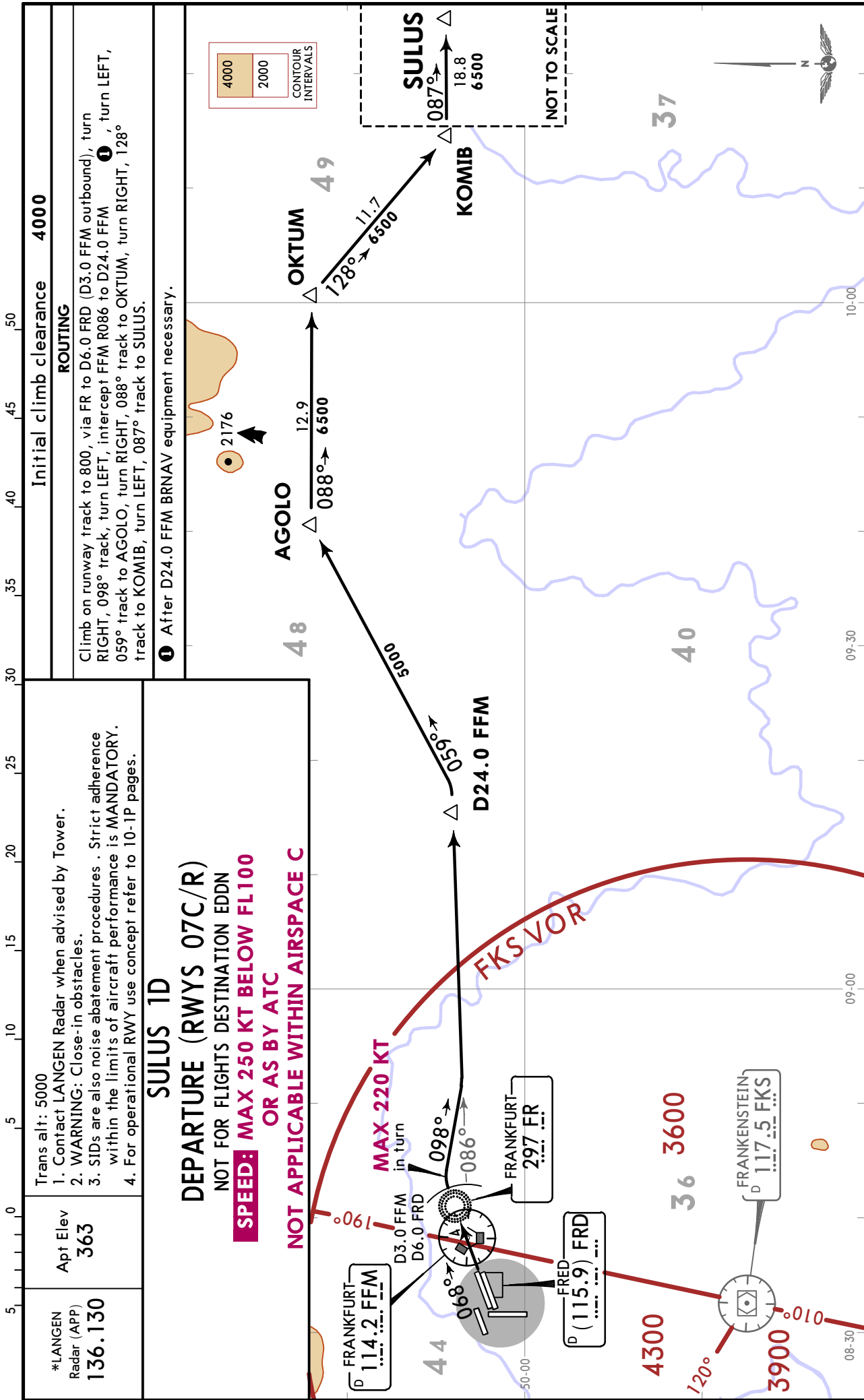
On runway track to D5.0 FFM/D2.1 FRD, turn LEFT direct to VFM, VFM R194 to D10.1 FFM/D7.2 FRD turn RIGHT to PABVI, to SIVDO, to KUIPI, to MASIR, to RAVKI, to DITAM, to OBOKA.

After D10.1 FFM/D7.2 FRD RNAV 5 equipment necessary.



EDDF/FRA
FRANKFURT/MAIN

JEPPESSEN **FRANKFURT/MAIN, GERMANY**
27 OCT 23 (10-3N3) Eff 2 Nov **SID**



EDDF/FRA
FRANKFURT/MAIN

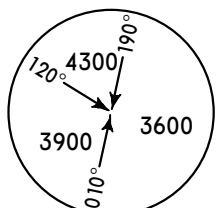
JEPPESEN FRANKFURT/MAIN, GERMANY
27 OCT 23 (10-3N4) Eff 2 Nov

SID

*LANGEN
Radar (APP)
120.155

Apt Elev
363

Trans alt: 5000
1. Contact LANGEN Radar when advised by Tower.
2. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY.
3. For operational RWY use concept refer to 10-1P pages.



MSA 117.5 FKS VOR

TAUNUS 3Q (TAU 3Q)

DEPARTURE

(RWYS 25L/C)

BY ATC

**SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C**

25

20

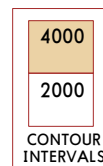
15

10

5

0

5



TAUNUS
D 113.35 TAU



44

3245

5000

WIESBADEN
-AAF
ETOU

FRANKFURT
D 114.2 FFM



At D5.0 FFM
or 800
whichever is later

3500

36

256°

274°

08-30

Initial climb clearance 5000

ROUTING

Climb on runway track to D5.0 FFM or 800, whichever is later, turn RIGHT, 274° track (RWY 25L: 281° track), intercept FFM R256, at 3500 turn RIGHT to TAU, but not before reaching FFM R258.

EDDF/FRA
FRANKFURT/MAIN

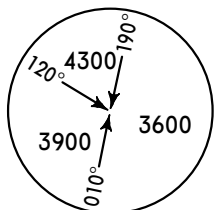
JEPPESEN FRANKFURT/MAIN, GERMANY
27 OCT 23 (10-3N5) Eff 2 Nov

SID

*LANGEN
Radar (APP)
120.155

Apt Elev
363

- Trans alt: 5000
1. Contact LANGEN Radar when advised by Tower.
 2. WARNING: Close-in obstacles
 3. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY.
 4. For operational RWY use concept refer to 10-1P pages.



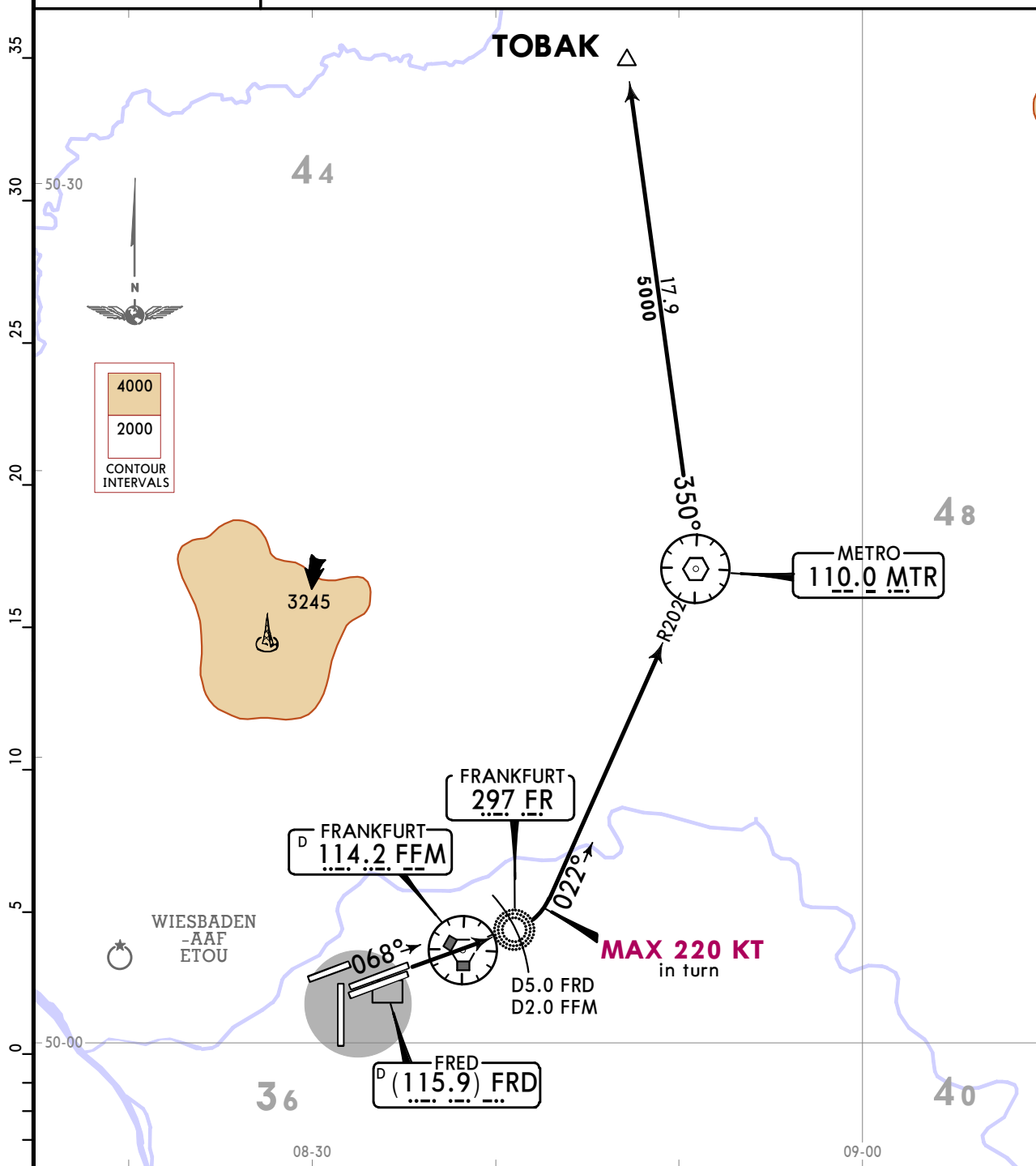
MSA 117.5 FKS VOR

TOBAK 9D

DEPARTURE (RWYS 07C/R)

NOT FOR FLIGHTS CONTINUING VIA AIRWAY Z-10

**SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C**



Initial climb clearance 5000

ROUTING

Climb on runway track to 800, to FR (D5.0 FRD/D2.0 FFM outbound), turn LEFT IMMEDIATELY intercept MTR R202 inbound to MTR ①, turn LEFT, MTR R350 to TOBAK.

① After MTR BRNAV equipment necessary.

EDDF/FRA
FRANKFURT/MAIN

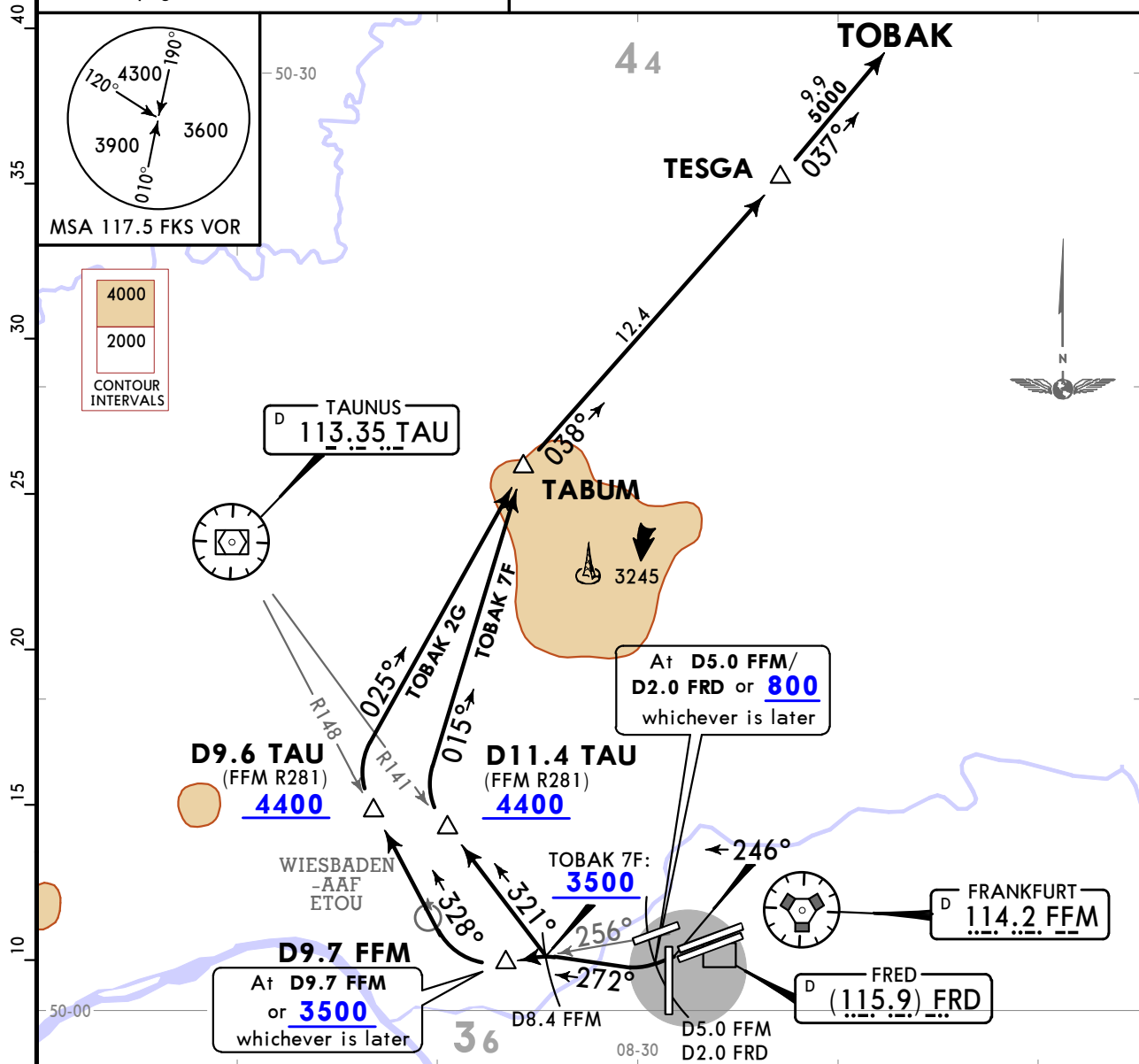
JEPPESEN FRANKFURT/MAIN, GERMANY
27 OCT 23 **10-3N6** **Eff 2 Nov** **SID**

*LANGEN
Radar (APP)
120.155

Apt Elev
363

TOBAK 7F, TOBAK 2G
DEPARTURES
(RWYS 25L/C)
NOT FOR FLIGHTS CONTINUING VIA AIRWAY Z-10
SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C

Trans alt: 5000
1. Contact LANGEN Radar when advised by Tower.
2. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY.
3. For operational RWY use concept refer to 10-1P pages.



TOBAK 7F
This SID requires a minimum climb gradient of 12.0% (729 FT/NM) until D8.4 FFM (4.5 NM after DER) due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
12.0% V/V (fpm)	911	1215	1823	2430	3038	3646

If unable to comply advise FRANKFURT
Delivery prior to start-up

Initial climb clearance **5000**

SID	ROUTING
TOBAK 7F	Climb on runway track to D5.0 FFM/D2.0 FRD or 800, whichever is later, turn RIGHT, 272° track (RWY 25L: 277° track) to D8.4 FFM, turn RIGHT, intercept TAU R141 inbound to D11.4 TAU ①, turn RIGHT, 015° track to TABUM, turn RIGHT, 038° track to TESGA, turn LEFT, 037° track to TOBAK.
TOBAK 2G	Climb on runway track to D5.0 FFM/D2.0 FRD or 800, whichever is later, turn RIGHT, 272° track (RWY 25L: 277° track), intercept FFM R256 to D9.7 FFM or 3500, whichever is later, turn RIGHT, intercept TAU R148 inbound to D9.6 TAU ②, turn RIGHT, 025° track to TABUM, turn RIGHT, 038° track to TESGA, turn LEFT, 037° track to TOBAK.

RNAV 5 equipment necessary after: ① D11.4 TAU/ ② D9.6 TAU.

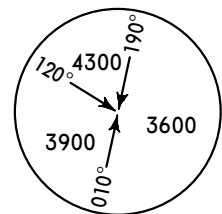
EDDF/FRA
FRANKFURT/MAIN

JEPPESSEN FRANKFURT/MAIN, GERMANY
4 AUG 23 **10-3N7** **Eff 10 Aug** **SID**

*LANGEN Radar
120.155

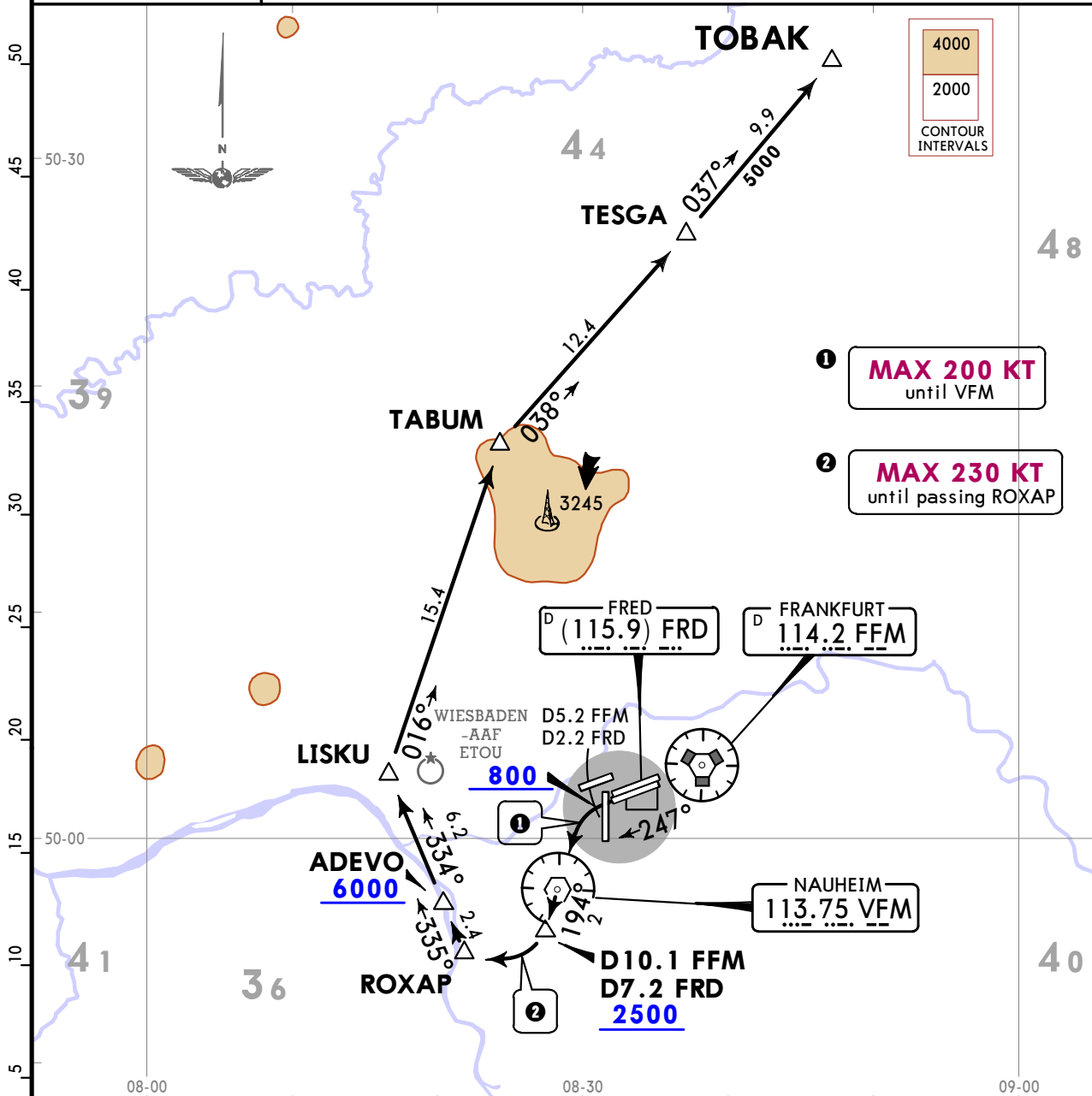
Apt Elev
363

Trans alt: 5000
1. Contact LANGEN Radar when advised by Tower.
2. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY.
3. For operational RWY use concept refer to 10-1P pages.



MSA 117.5 FKS VOR

TOBAK 5H
DEPARTURE (RWY 25L)
SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



1 **MAX 200 KT**
until VFM

2 **MAX 230 KT**
until passing ROXAP

This SID requires minimum climb gradients of
520 per NM (8.5%) until passing 800, then
415 per NM (6.8%) until passing 6000 due to operational requirements.

Gnd speed-KT	75	100	150	200	250	300
415 per NM	519	692	1038	1383	1729	2075
520 per NM	650	867	1300	1733	2167	2600

If unable to comply advise FRANKFURT Delivery prior to start-up.

Initial climb clearance **FL070**

ROUTING

On runway track to D5.2 FFM/D2.2 FRD, turn LEFT direct to VFM, VFM R194 to D10.1 FFM/D7.2 FRD **3**, turn RIGHT to ROXAP, to ADEVO, to LISKU, to TABUM, to TESGA, to TOBAK.

3 After D10.1 FFM/D7.2 FRD RNAV 5 equipment necessary.

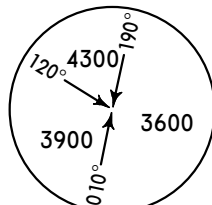
EDDF/FRA
FRANKFURT/MAIN

JEPPESEN FRANKFURT/MAIN, GERMANY
4 AUG 23 **10-3N8** **Eff 10 Aug** **SID**

*LANGEN Radar
120.155

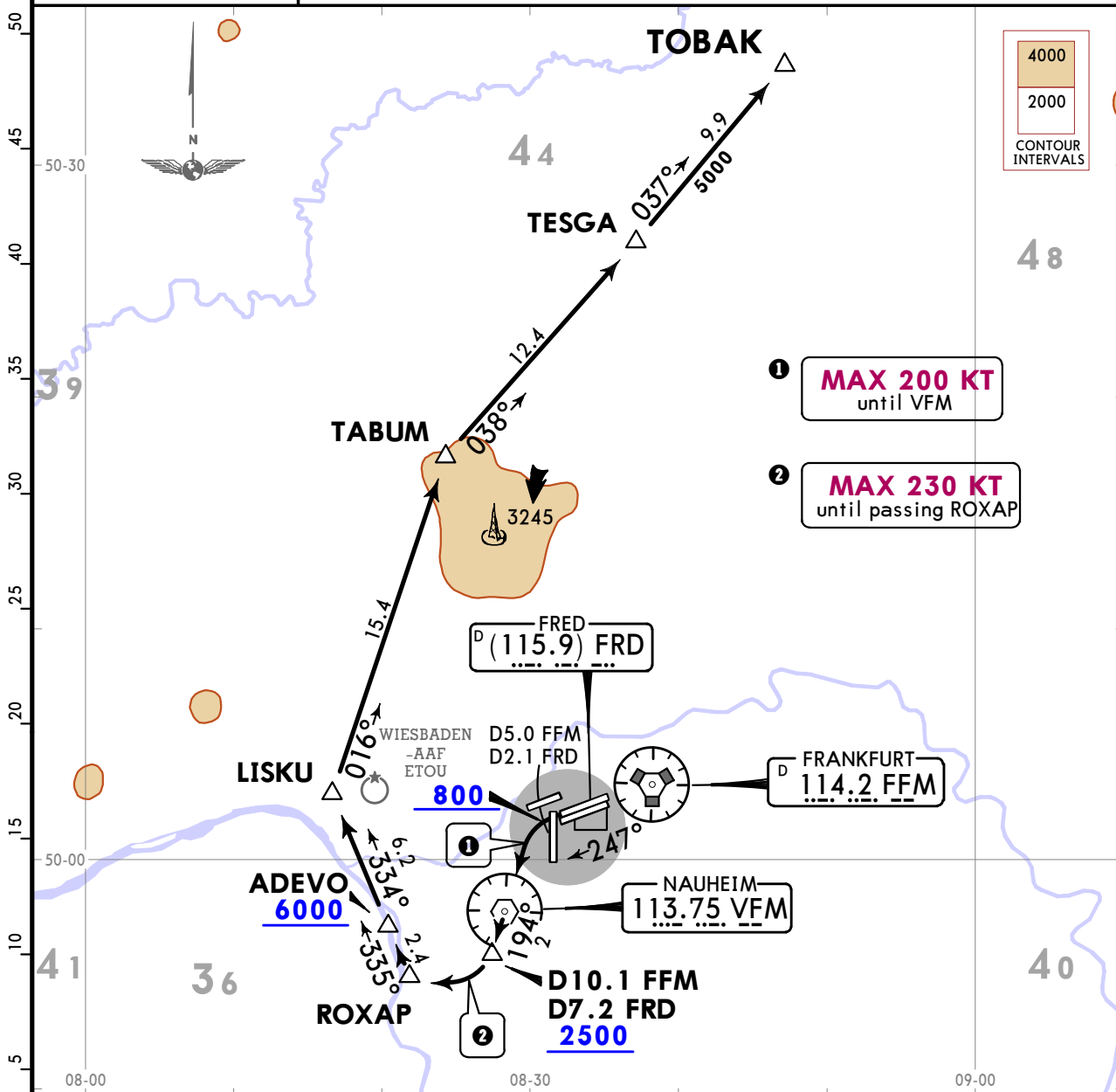
Apt Elev
363

Trans alt: 5000
1. Contact LANGEN Radar when advised by Tower.
2. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY.
3. For operational RWY use concept refer to 10-1P pages.



MSA 117.5 FKS VOR

TOBAK 7M
DEPARTURE (RWY 25C)
SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



This SID requires minimum climb gradients of
520 per NM (8.5%) until passing 800, then
415 per NM (6.8%) until passing 6000 due
to operational requirements.

Gnd speed-KT	75	100	150	200	250	300
415 per NM	519	692	1038	1383	1729	2075
520 per NM	650	867	1300	1733	2167	2600

If unable to comply advise FRANKFURT Delivery prior to start-up.

Initial climb clearance **FL070**

ROUTING

On runway track to D5.0 FFM/D2.1 FRD, turn LEFT direct to VFM, VFM R194 to D10.1 FFM/D7.2 FRD turn RIGHT to ROXAP, to ADEVO, to LISKU, to TABUM, to TESGA, to TOBAK. **3**

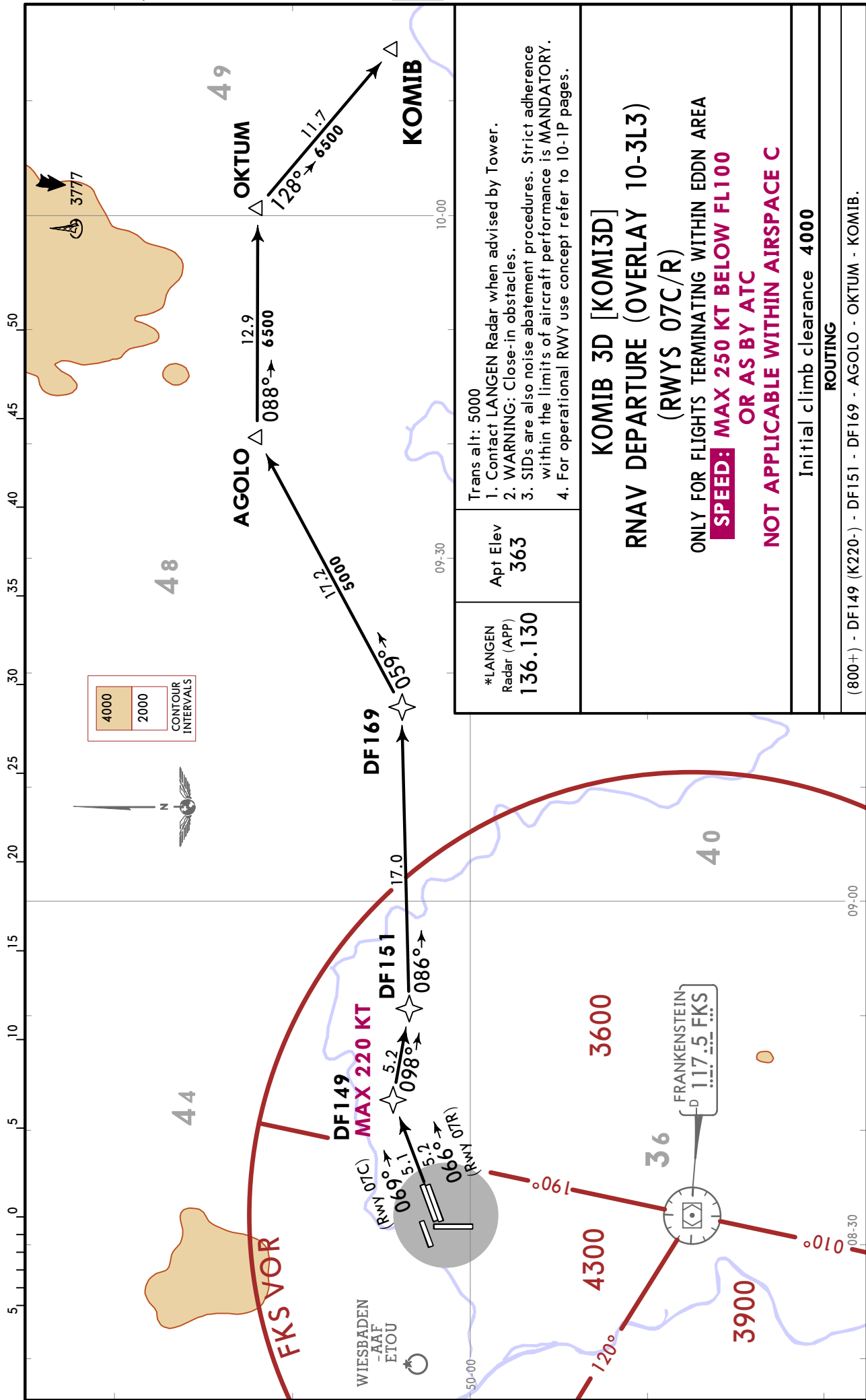
3 After D10.1 FFM/D7.2 FRD RNAV 5 equipment necessary.

EDDF/FRA
FRANKFURT/MAIN

27 OCT 23 10-3P

JEPPesen FRANKFURT/MAIN, GERMANY
Eff 2 Nov

RNAV SID (OVERLAY)



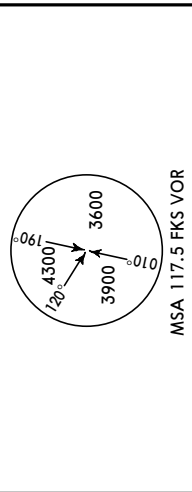
FRANKFURT/MAIN, GERMANY

RNAV SID (OVERLAY)

Trans alt: 5000
 1. Contact LANGEN Radar when advised by Tower.
 2. **WARNING:** Close-in obstacles.
 3. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY.
 4. For operational RWY use concept refer to 10-1P pages.

*LANGEN Radar (APP) 120.155
 Apt Elev 363

MARUN 9D [MARU9D]
MARUN 5E [MARU5E]
RNAV DEPARTURES (OVERLAY 10-3L4)
(RWYS 07C/R)
SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



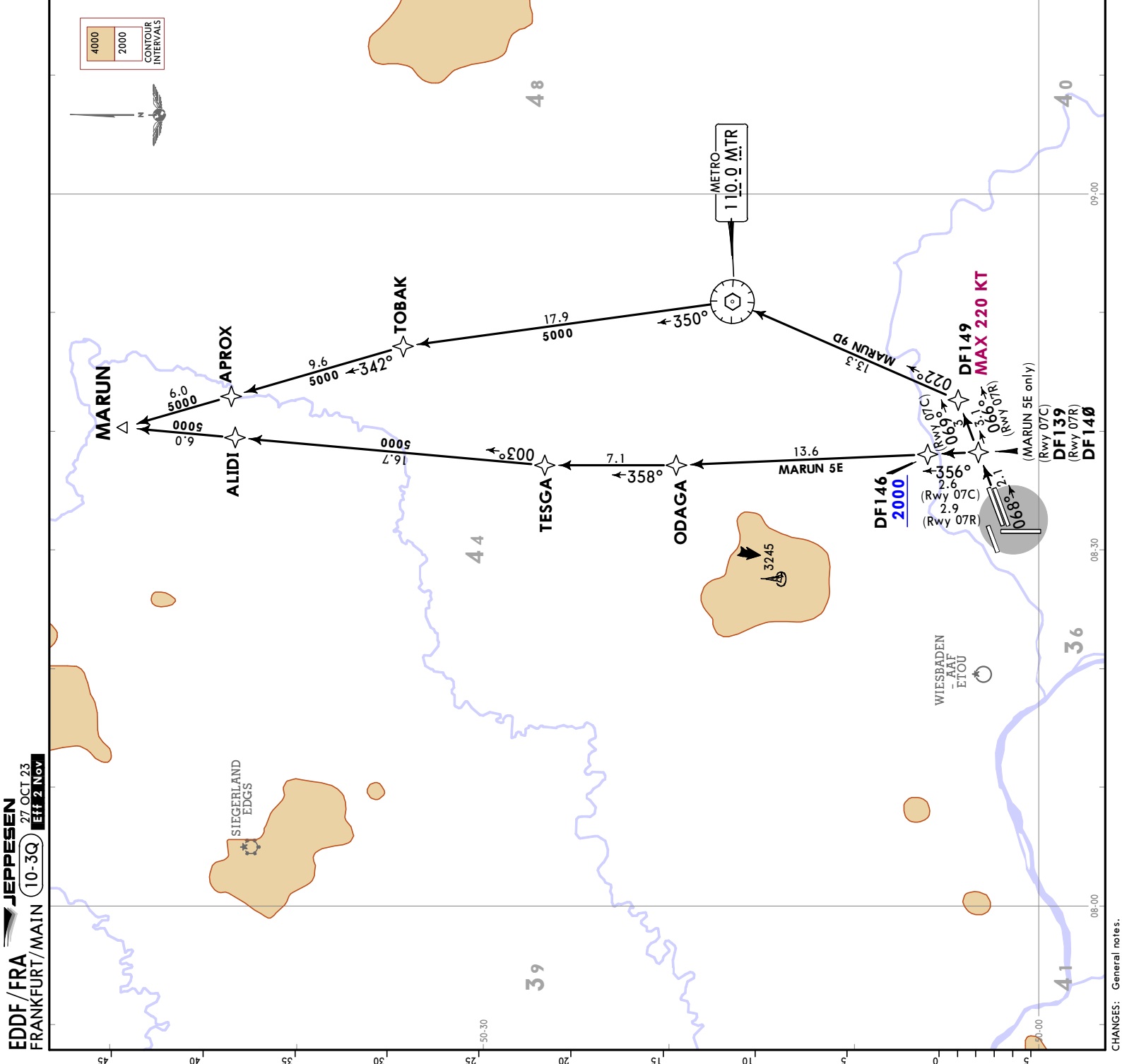
MARUN 5E
 This SID requires a minimum climb gradient of 6.3% (383 FT/NM) until passing 2000.

Grnd speed-KT	75	100	150	200	250	300
6.3% V/V (fpm)	478	638	957	1276	1595	1914

If unable to comply advise FRANKFURT Delivery prior to start-up.

Initial climb clearance **5000**

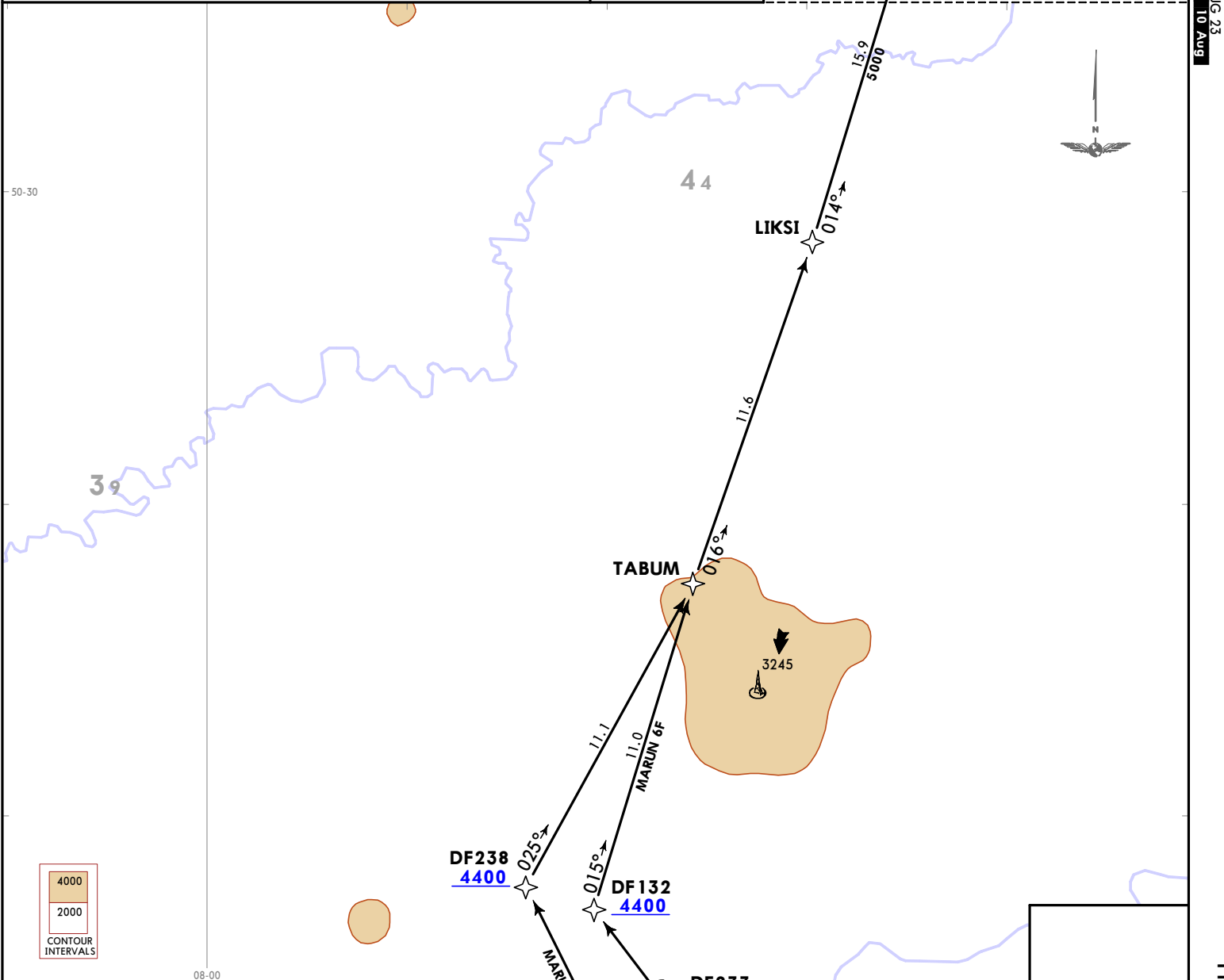
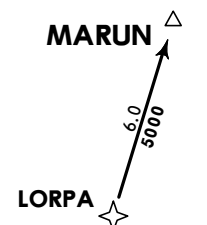
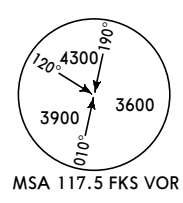
SID	ROUTING
MARUN 9D	(800+) - DF 149 (K220-) - MTR - TOBAK - APROX - MARUN.
MARUN 5E	(800+) - DF 139 (07C)/DF 140 (07R) - DF 146 (2000+) - ODAGA - TESGA - ALIDI - MARUN.



CHANGES: MSA, chart reindexed, reference note.

EDDF / FRA
FRANKFURT / MAIN
JEPPESSEN
10-3Q1
4 AUG 23
EFT 10 Avg

*LANGEN Radar 120.155	Apt Elev 363	Trans alt: 5000 1. Contact LANGEN Radar when advised by Tower. 2. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 3. For operational RWY use concept refer to 10-1P pages.
MARUN 6F [MARU6F] MARUN 1G [MARU1G] RNAV DEPARTURES (OVERLAY 10-3L5) (RWYS 25L/C) SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC NOT APPLICABLE WITHIN AIRSPACE C		



MARUN 6F
This SID requires a minimum climb gradient of 12.0% (729 FT/NM) until DF233 due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
12.0% V/V (fpm)	911	1215	1823	2430	3038	3646

If unable to comply advise FRANKFURT Delivery prior to start-up.

Initial climb clearance 5000

SID	ROUTING
MARUN 6F	(800+) - DF234 (25C)/DF235 (25L) - DF233 (3500+) - DF132 (4400+) - TABUM - LIKSI - LORPA - MARUN.
MARUN 1G	(800+) - DF234 (25C)/DF235 (25L) - DF133 - DF236 - (3500+) - DF238 (4400+) - TABUM - LIKSI - LORPA - MARUN.

WIESBADEN - AAF ETOU

DF236
At DF236 or 3500 whichever is later

DF133 (MARUN 1G only)

DF233 3500

DF234 (Rwy 25L)
DF235 (Rwy 25C)

DF238 4400

DF132 4400

MARUN 6F: ←248°
MARUN 1G: ←246°

(Rwy 25C) ←272°
(Rwy 25L) ←277°

(Rwy 25C) ←248°
(Rwy 25L) ←246°

FRANKFURT / MAIN, GERMANY
RNAV SID (OVERLAY)

MARUN 6F [MARU6F]
MARUN 1G [MARU1G]
RNAV DEPARTURES
(OVERLAY 10-3L5)
(RWYS 25L/C)

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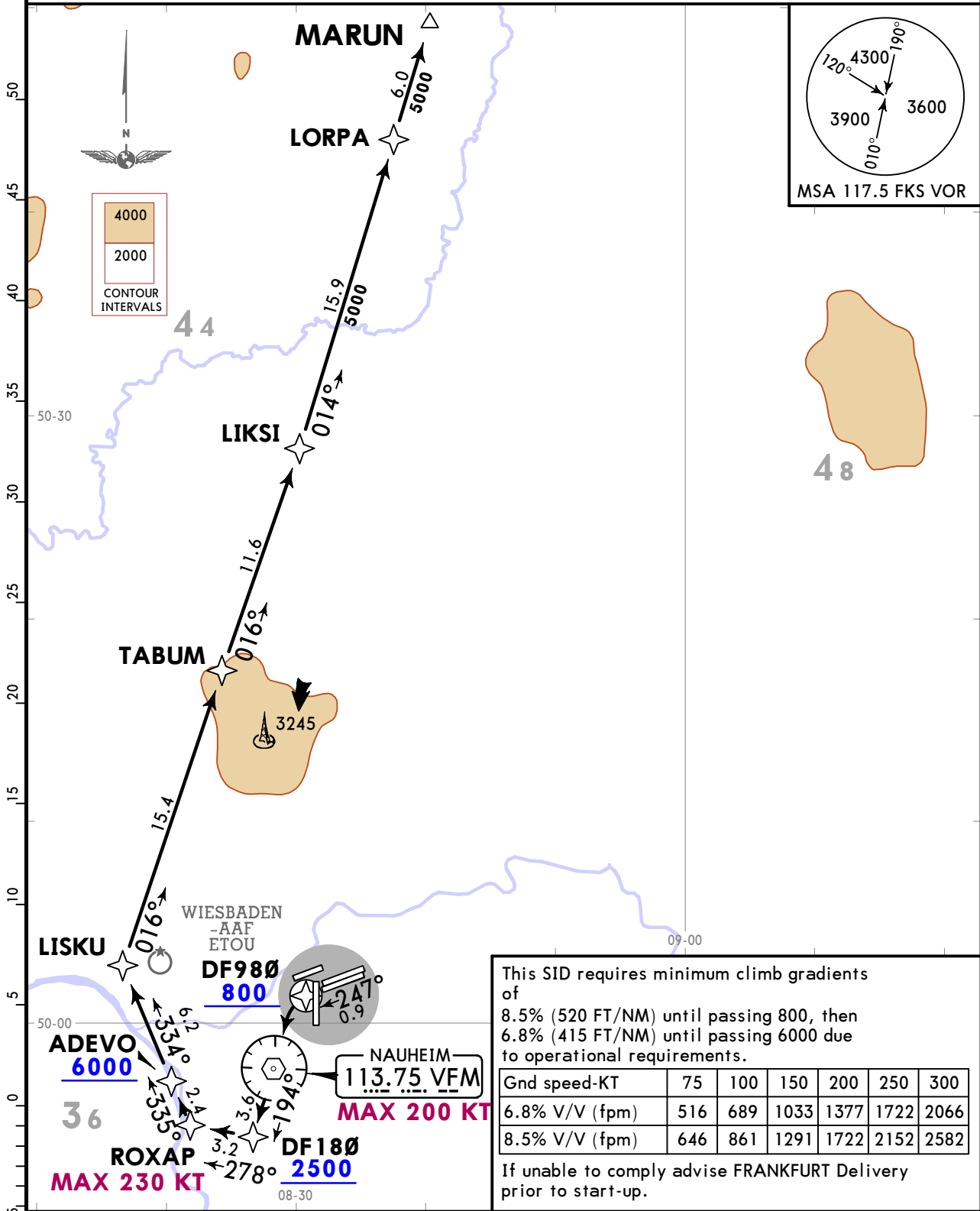
EDDF/FRA
FRANKFURT/MAIN

JEPPESSEN FRANKFURT/MAIN, GERMANY
4 AUG 23 **10-3Q2** **Eff 10 Aug** **RNAV SID (OVERLAY)**

*LANGEN Radar 120.155	Apt Elev 363	Trans alt: 5000 1. Contact LANGEN Radar when advised by Tower. 2. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 3. For operational RWY use concept refer to 10-1P pages.
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MARUN 5H [MARU5H]
RNAV DEPARTURE (OVERLAY 10-3L6) (RWY 25L)

SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



Initial climb clearance **FL070**

ROUTING

DF980 (800+) - VFM (K200-) - DF180 (2500+) - ROXAP (K230-) - ADEVO (6000+) - LISKU - TABUM - LIKSI - LORPA - MARUN.

EDDF/FRA
FRANKFURT/MAIN

JEPPESSEN FRANKFURT/MAIN, GERMANY
4 AUG 23 **10-3Q3** **Eff 10 Aug** **RNAV SID (OVERLAY)**

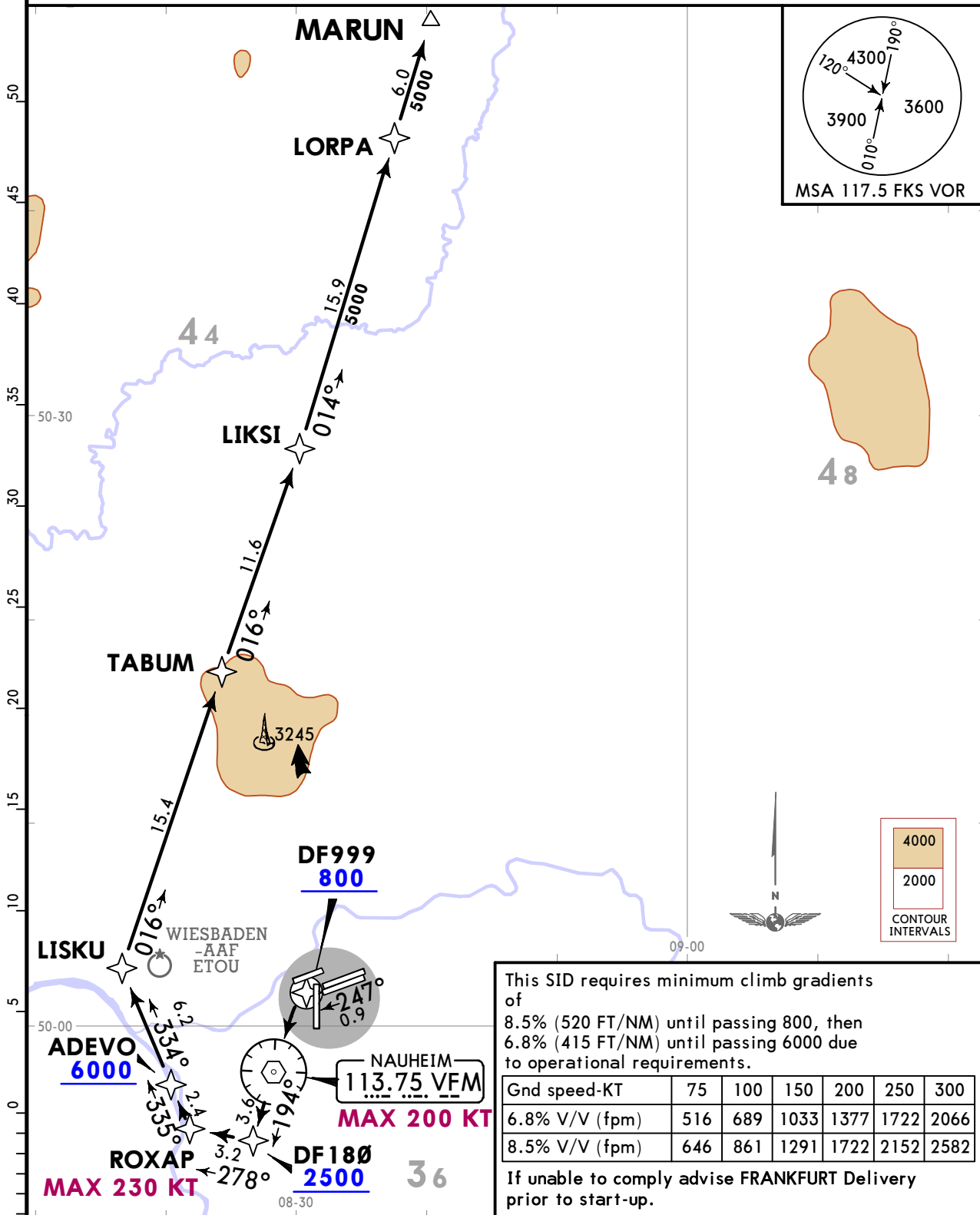
*LANGEN Radar
120.155

Apt Elev
363

Trans alt: 5000
1. Contact LANGEN Radar when advised by Tower.
2. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY.
3. For operational RWY use concept refer to 10-1P pages.

MARUN 7M [MARU7M]
RNAV DEPARTURE (OVERLAY 10-3L7) (RWY 25C)

SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



This SID requires minimum climb gradients of
8.5% (520 FT/NM) until passing 800, then
6.8% (415 FT/NM) until passing 6000 due
to operational requirements.

Gnd speed-KT	75	100	150	200	250	300
6.8% V/V (fpm)	516	689	1033	1377	1722	2066
8.5% V/V (fpm)	646	861	1291	1722	2152	2582

If unable to comply advise FRANKFURT Delivery prior to start-up.

Initial climb clearance **FL070**

ROUTING

DF999 (800+) - VFM (K200-) - DF180 (2500+) - ROXAP (K230-) - ADEVO (6000+) - LISKU - TABUM - LIKSI - LORPA - MARUN.

FRANKFURT/MAIN, GERMANY
RNAV SID (OVERLAY)

EDDF/FRA
FRANKFURT/MAIN (10-3Q4) **Eff 2 Nov**
JEPPesen 27 OCT 23

Trans alt: 5000

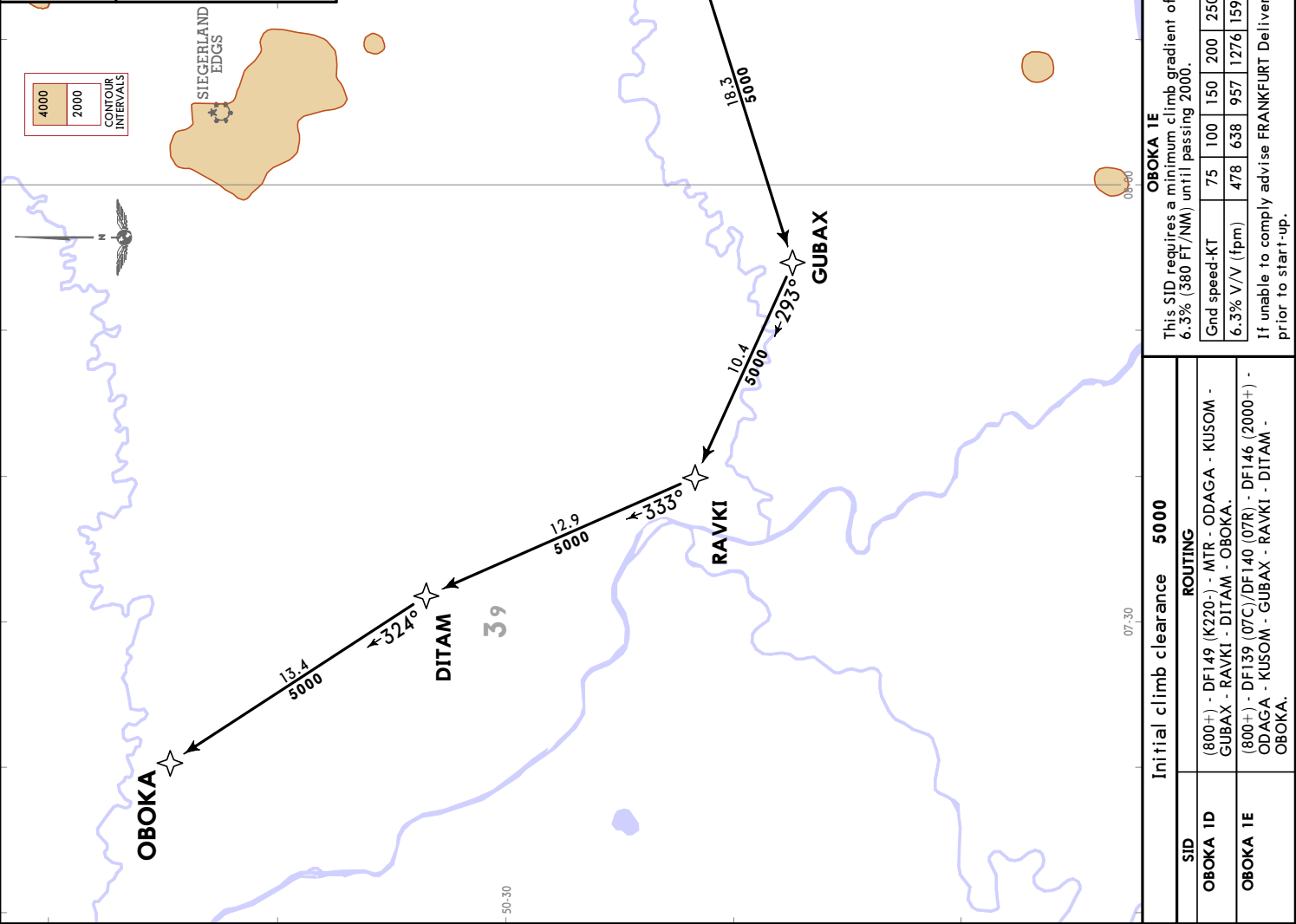
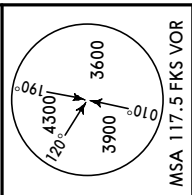
- Contact LANGEN Radar when advised by Tower.
- WARNING:** Close-in obstacles.
- SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is **MANDATORY**.
- For operational RWY use concept refer to 10-1P pages.

Apt Elev **363**

*LANGEN Radar (APP) **120.155**

OBOKA 1D [OBOK1D], OBOKA 1E [OBOK1E]
RNAV DEPARTURES (OVERLAY 10-3M) (RWYS 07C/R)
FLIGHTS HAVE TO BE ABLE TO CROSS OBOKA AT OR ABOVE FL170 EXCEPT FLIGHTS TO EDDK

IF UNABLE TO COMPLY ADVISE EDDF DELIVERY PRIOR TO START-UP
SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



4000
2000
CONTOUR INTERVALS

SIEGERLAND EDGES

WIESBADEN AAF ETOU

3245

110.0 MTR

METRO

48

40

36

39

30-30

07-30

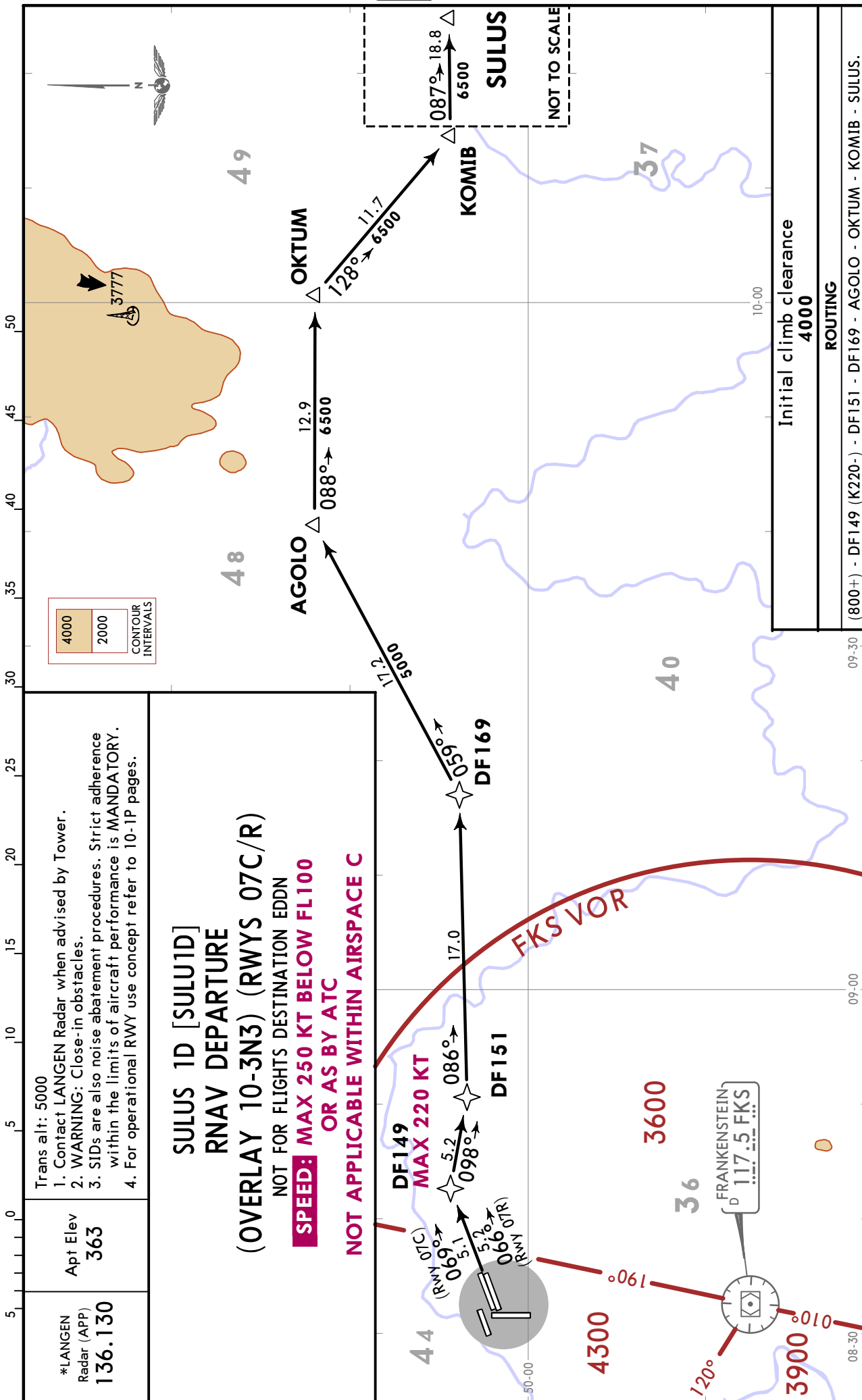
09-00

Initial climb clearance	5000
SID	ROUTING
OBOKA 1D	(800+) - DF149 (K220-) - MTR - ODAGA - KUSOM - GUBAX - RAVKI - DITAM - OBOKA.
OBOKA 1E	(800+) - DF139 (07C)/DF140 (07R) - DF146 (2000+) - ODAGA - KUSOM - GUBAX - RAVKI - DITAM - OBOKA.

OBOKA 1E						
This SID requires a minimum climb gradient of 6.3% (380 FT/NM) until passing 2000.						
Gnd speed-KT	75	100	150	200	250	300
6.3% V/V (fpm)	478	638	957	1276	1595	1914
If unable to comply advise FRANKFURT Delivery prior to start-up.						

EDDF/FRA
FRANKFURT/MAIN

JEPPesen FRANKFURT/MAIN, GERMANY
27 OCT 23 **10-3U** **Eff 2 Nov** **RNAV SID (OVERLAY)**

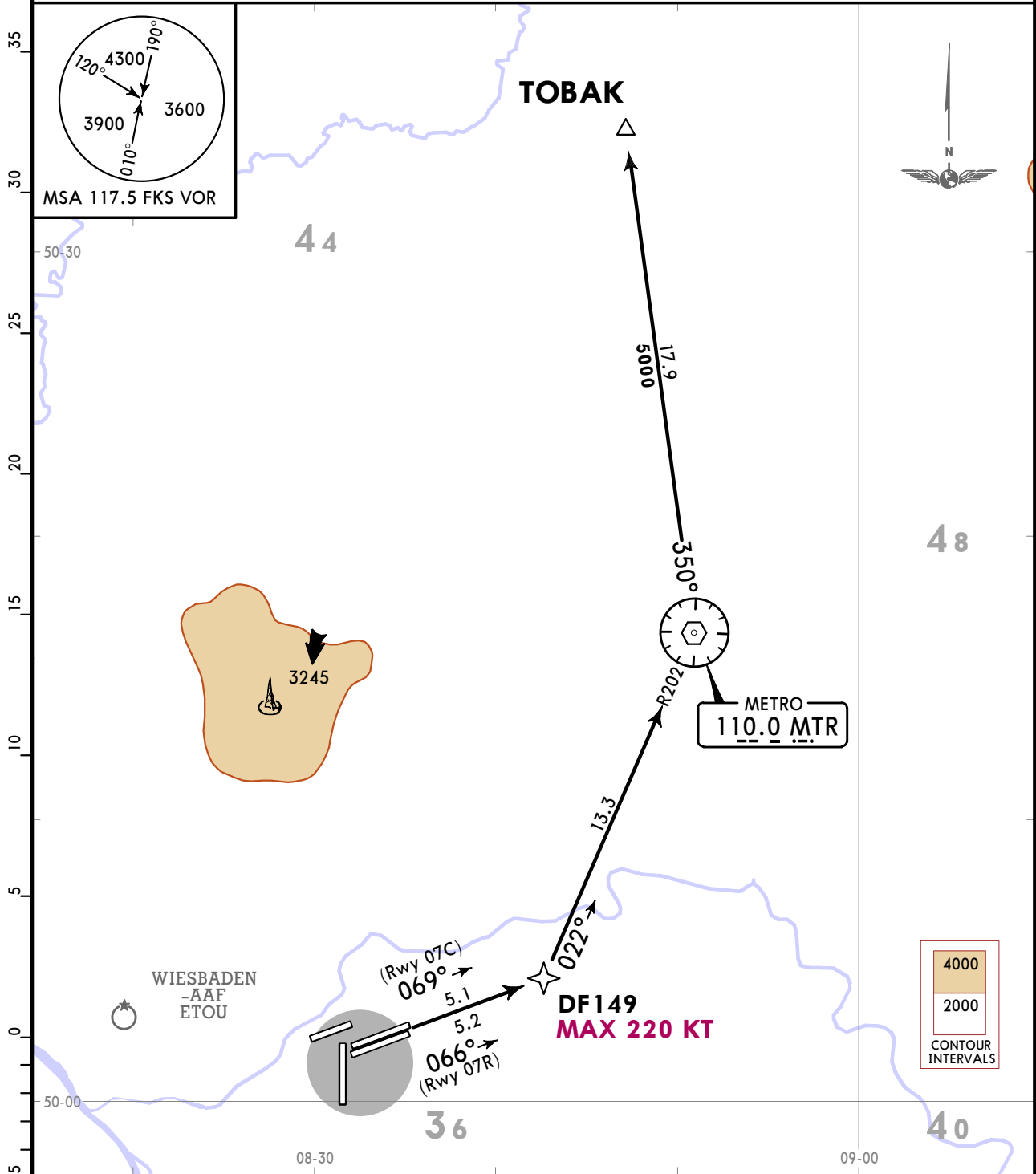


EDDF/FRA
FRANKFURT/MAIN

JEPPESENFRANKFURT/MAIN, GERMANY
27 OCT 23 **10-3V** **Eff 2 Nov** **RNAV SID (OVERLAY)**

<p>*LANGEN Radar (APP) 120.155</p>	<p>Apt Elev 363</p>	<p>Trans alt: 5000 1. Contact LANGEN Radar when advised by Tower. 2. WARNING: Close-in obstacles. 3. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 4. For operational RWY use concept refer to 10-1P pages.</p>
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TOBAK 9D [TOBA9D]
RNAV DEPARTURE (OVERLAY 10-3N5) (RWYS 07C/R)
NOT FOR FLIGHTS CONTINUING VIA AIRWAY Z-10
SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



Initial climb clearance
5000

ROUTING

(800+) - DF149 (K220-) - MTR - TOBAK.

EDDF/FRA
FRANKFURT/MAIN

JEPPesenFRANKFURT/MAIN, GERMANY
4 AUG 23 **10-3W** **Eff 10 Aug** **RNAV SID (OVERLAY)**

*LANGEN
Radar
120.155

Apt Elev
363

- Trans alt: 5000
- Contact LANGEN Radar when advised by Tower.
 - SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY.
 - For operational RWY use concept refer to 10-1P pages.

TOBAK 7F [TOBA7F]
TOBAK 2G [TOBA2G]
RNAV DEPARTURES
(OVERLAY 10-3N6)
(RWYS 25L/C)

NOT FOR FLIGHTS CONTINUING VIA AIRWAY Z-10

SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC

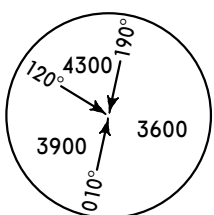
NOT APPLICABLE WITHIN AIRSPACE C

TOBAK

TESGA

12.4

NOT TO SCALE

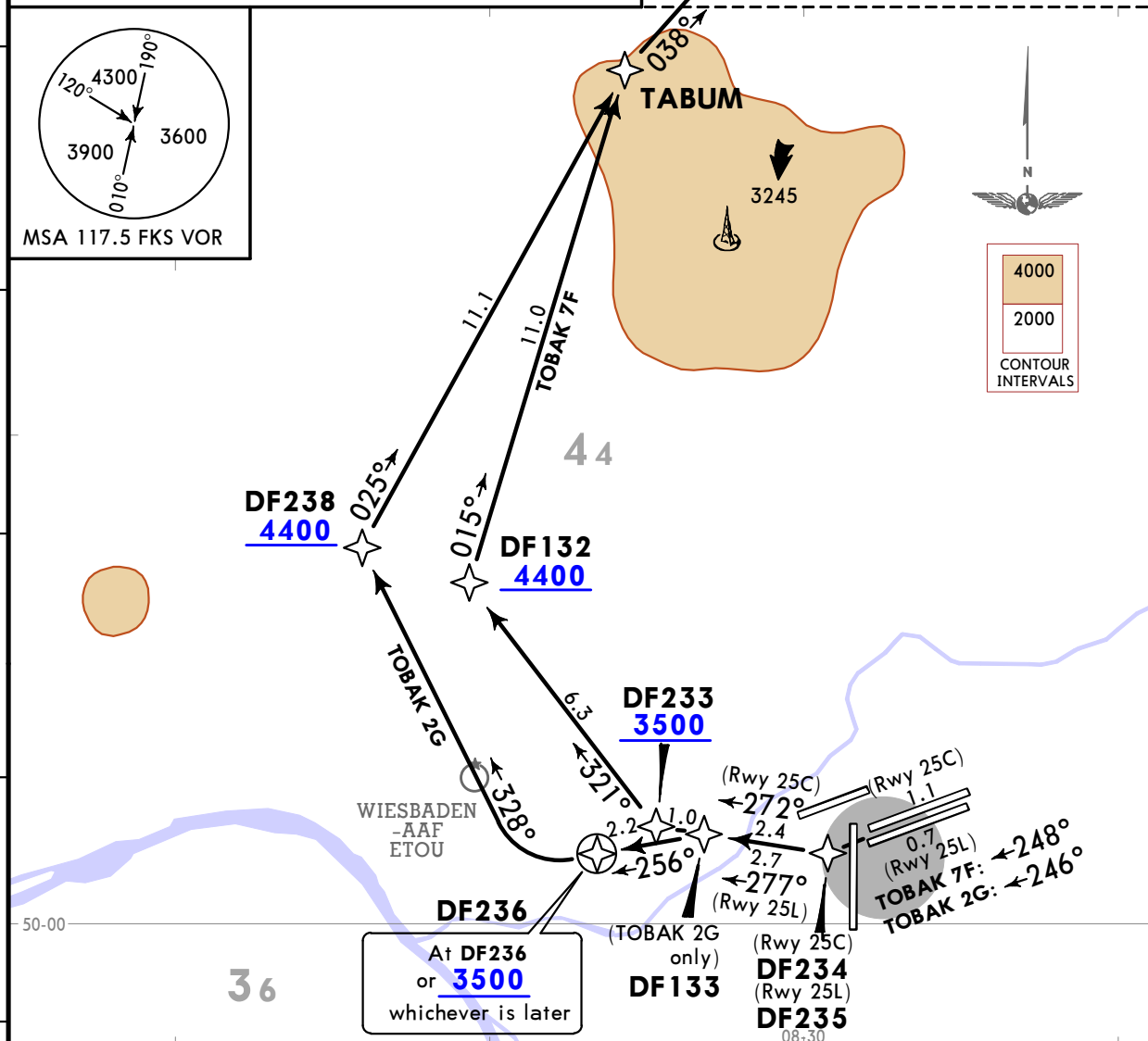


MSA 117.5 FKS VOR



4000
2000
CONTOUR INTERVALS

25
20
15
10
5
0



TOBAK 7F
This SID requires a minimum climb gradient of 12.0% (729 FT/NM) until DF233 due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
12.0% V/V (fpm)	911	1215	1823	2430	3038	3646

If unable to comply advise FRANKFURT Delivery prior to start-up

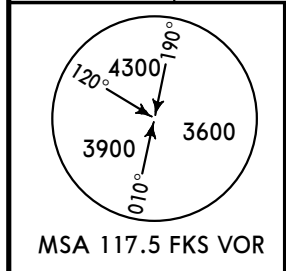
Initial climb clearance **5000**

SID	ROUTING
TOBAK 7F	(800+) - DF234 (25C)/DF235 (25L) - DF233 (3500+) - DF132 (4400+) - TABUM - TESGA - TOBAK.
TOBAK 2G	(800+) - DF234 (25C)/DF235 (25L) - DF133 - DF236 - (3500+) - DF238 (4400+) - TABUM - TESGA - TOBAK.

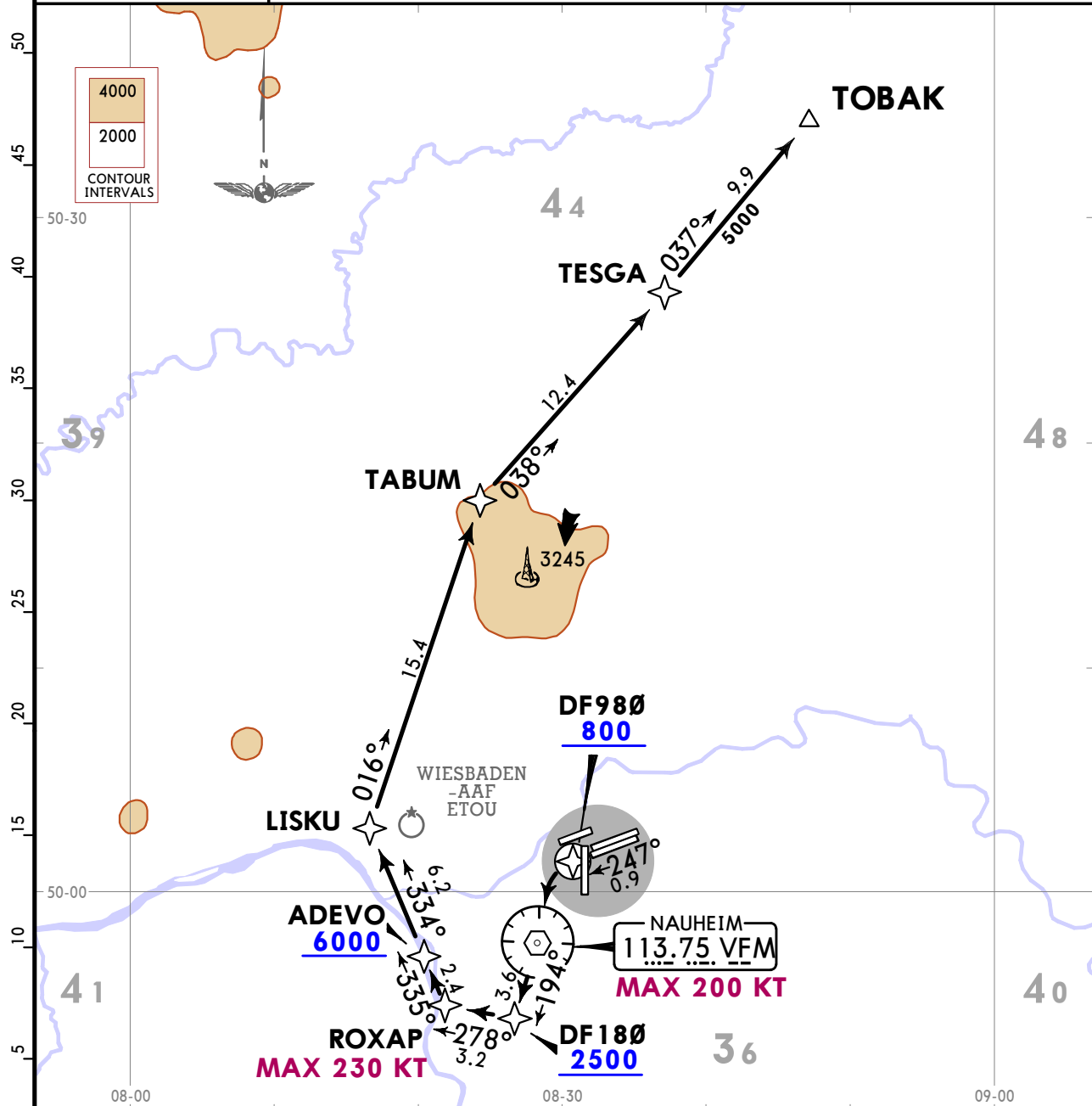
EDDF/FRA
FRANKFURT/MAIN

JEPPesen FRANKFURT/MAIN, GERMANY
4 AUG 23 **10-3X** **Eff 10 Aug** **RNAV SID (OVERLAY)**

*LANGEN Radar 120.155	Apt Elev 363	Trans alt: 5000 1. Contact LANGEN Radar when advised by Tower. 2. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 3. For operational RWY use concept refer to 10-1P pages.
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TOBAK 5H [TOBA5H]
RNAV DEPARTURE
(OVERLAY 10-3N7) (RWY 25L)
SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



This SID requires minimum climb gradients of 8.5% (520 FT/NM) until passing 800, then 6.8% (415 FT/NM) until passing 6000 due to operational requirements.

Gnd speed-KT	75	100	150	200	250	300
4.5% V/V (fpm)	342	456	684	911	1139	1367
8.5% V/V (fpm)	646	861	1291	1722	2152	2582

If unable to comply advise FRANKFURT Delivery prior to start-up.

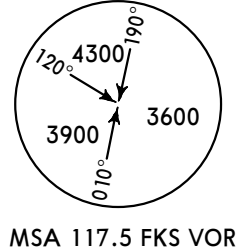
Initial climb clearance **FL070**

ROUTING
DF980 (800+) - VFM (K200-) - DF180 (2500+) - ROXAP (K230-) - ADEVO (6000+) - LISKU - TABUM - TESGA - TOBAK.

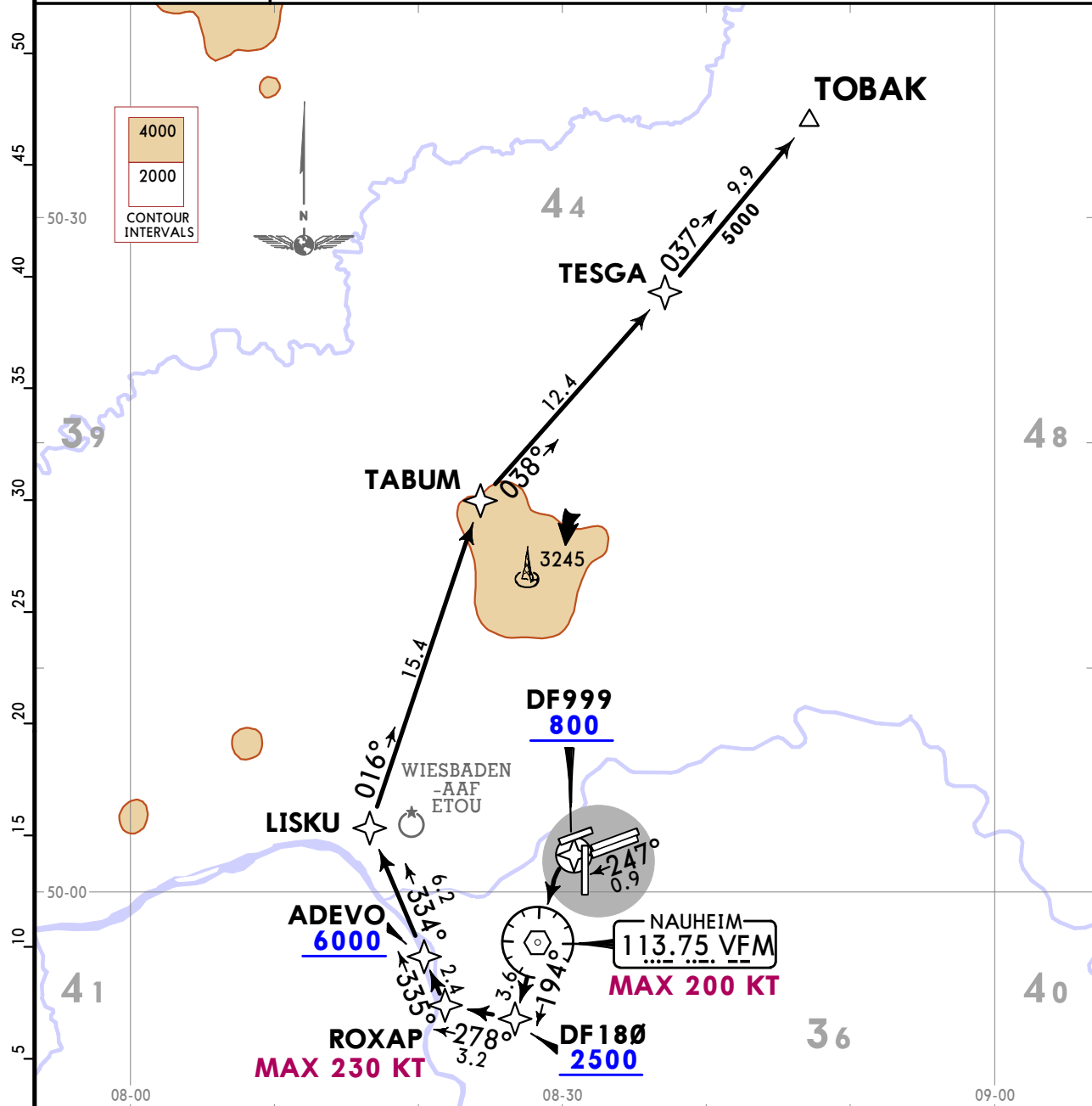
EDDF/FRA
FRANKFURT/MAIN

JEPPESSEN FRANKFURT/MAIN, GERMANY
4 AUG 23 (10-3X1) Eff 10 Aug **RNAV SID (OVERLAY)**

*LANGEN Radar 120.155	Apt Elev 363	Trans alt: 5000 1. Contact LANGEN Radar when advised by Tower. 2. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY. 3. For operational RWY use concept refer to 10-1P pages.
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TOBAK 7M [TOBA7M]
RNAV DEPARTURE
(OVERLAY 10-3N8) (RWY 25C)
SPEED: MAX 250 KT BELOW FL100
OR AS BY ATC
NOT APPLICABLE WITHIN AIRSPACE C



This SID requires minimum climb gradients of
 8.5% (520 FT/NM) until passing 800, then
 6.8% (415 FT/NM) until passing 6000 due to operational requirements.

Gnd speed-KT	75	100	150	200	250	300
6.8% V/V (fpm)	516	689	1033	1377	1722	2066
8.5% V/V (fpm)	646	861	1291	1722	2152	2582

If unable to comply advise FRANKFURT Delivery prior to start-up.

Initial climb clearance **FL070**

ROUTING
 DF999 (800+) - VFM (K200-) - DF180 (2500+) - ROXAP (K230-) - ADEVO (6000+) - LISKU - TABUM - TESGA - TOBAK.

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29 MAR 24 (10-8A)

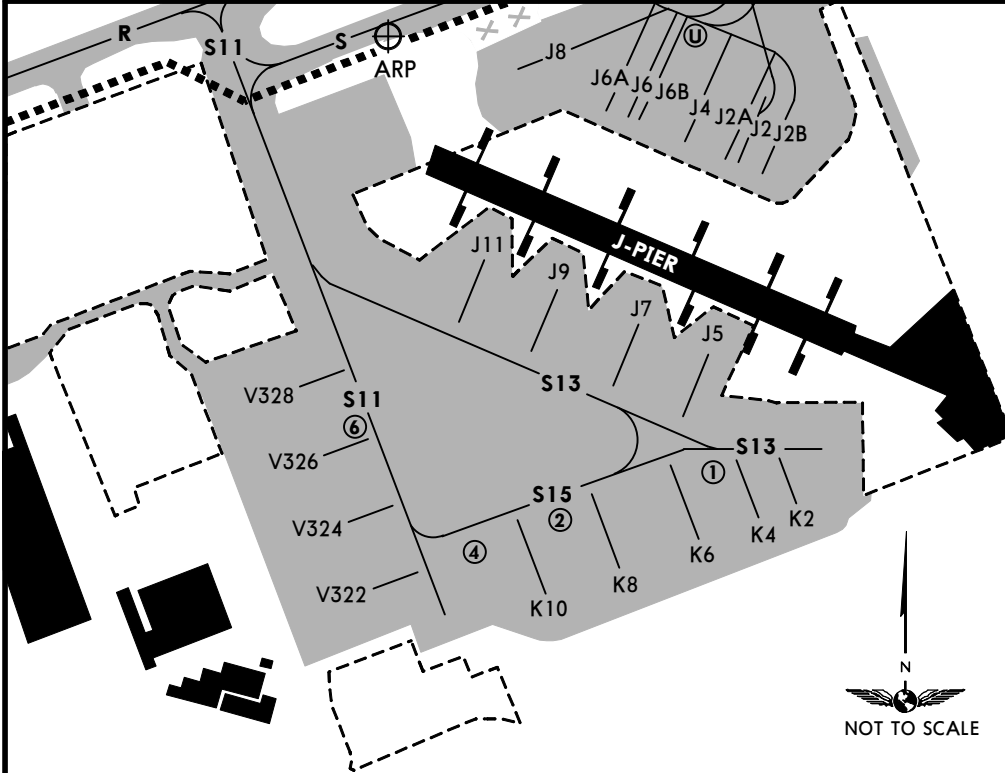
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FRANKFURT/MAIN





TEMPORARY CONSTRUCTION WORKS NEAR J-PIER

REFER ALSO TO LATEST NOTAMS

Stands J5, J7, J9 and J11 will be temporarily opened.
 Stands J7, J9 and J11 can be used by ACFT with a wingspan up to 224'/68.4m.
 Stand J5 can be used by ACFT with a wingspan up to 213'/65m.
 The adjacent TWY S13 will also be opened.
 The new taxiway section S13 can be used by ACFT with a wingspan up to 262'/80m.
 The new taxiway section is not equipped with centreline lighting.



LEGEND

-  Construction area
-  Limit of Apron competence area
-  Numbered Break away areas for push-back operations
-  Unnumbered Break away areas for push-back operations

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JEPPesen
18 AUG 23 (10-8B)

FRANKFURT/MAIN, GERMANY

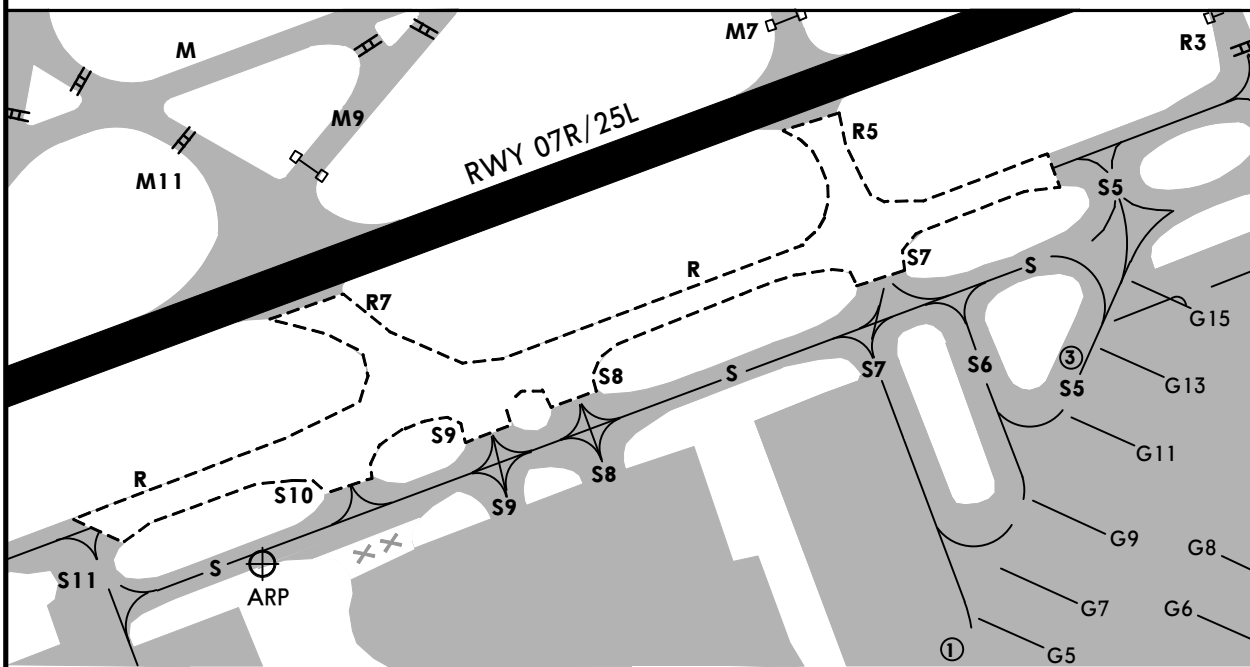
FRANKFURT/MAIN

RECONSTRUCTION OF TWY R

REFER ALSO TO LATEST NOTAMS

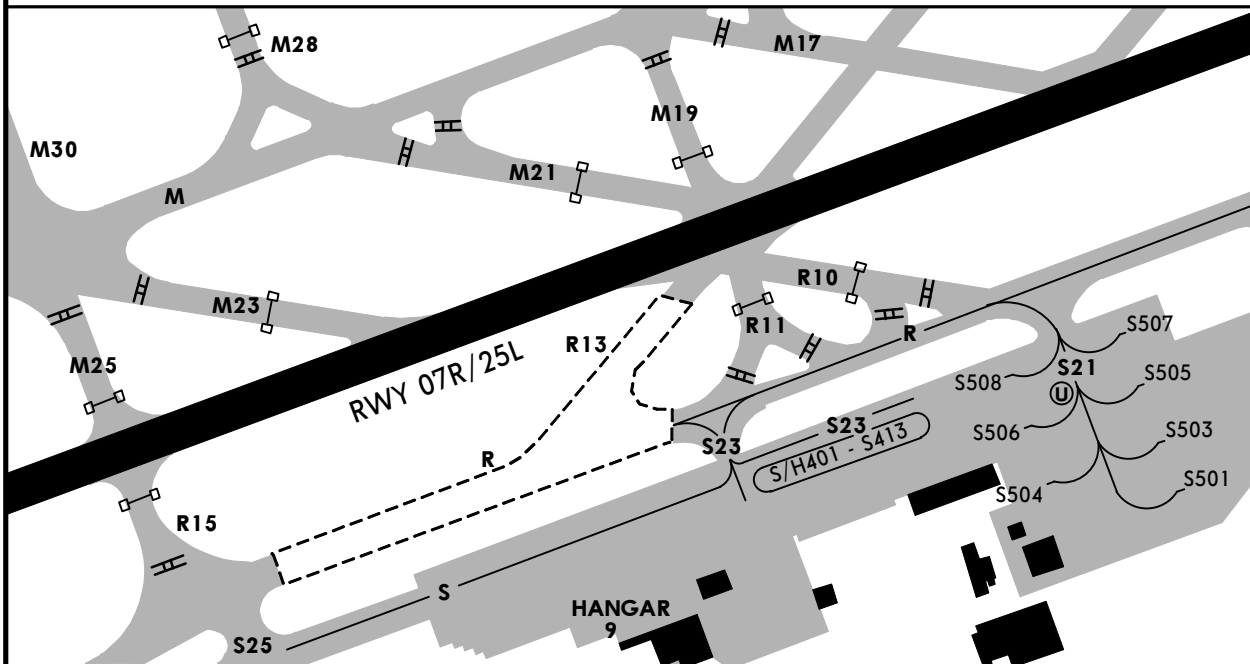
PHASE 1:

- TWY R closed between TWYs S5 and S11.
- TWYs R5 and R7 closed.



PHASE 2:

- TWY R closed between TWYs S23 and S25.
- TWY R13 closed.
- A new connection between TWYs S23 and S25 will be established via TWY S.



LEGEND

- Construction area
- Numbered Break away areas for push-back operations
- Unnumbered Break away areas for push-back operations

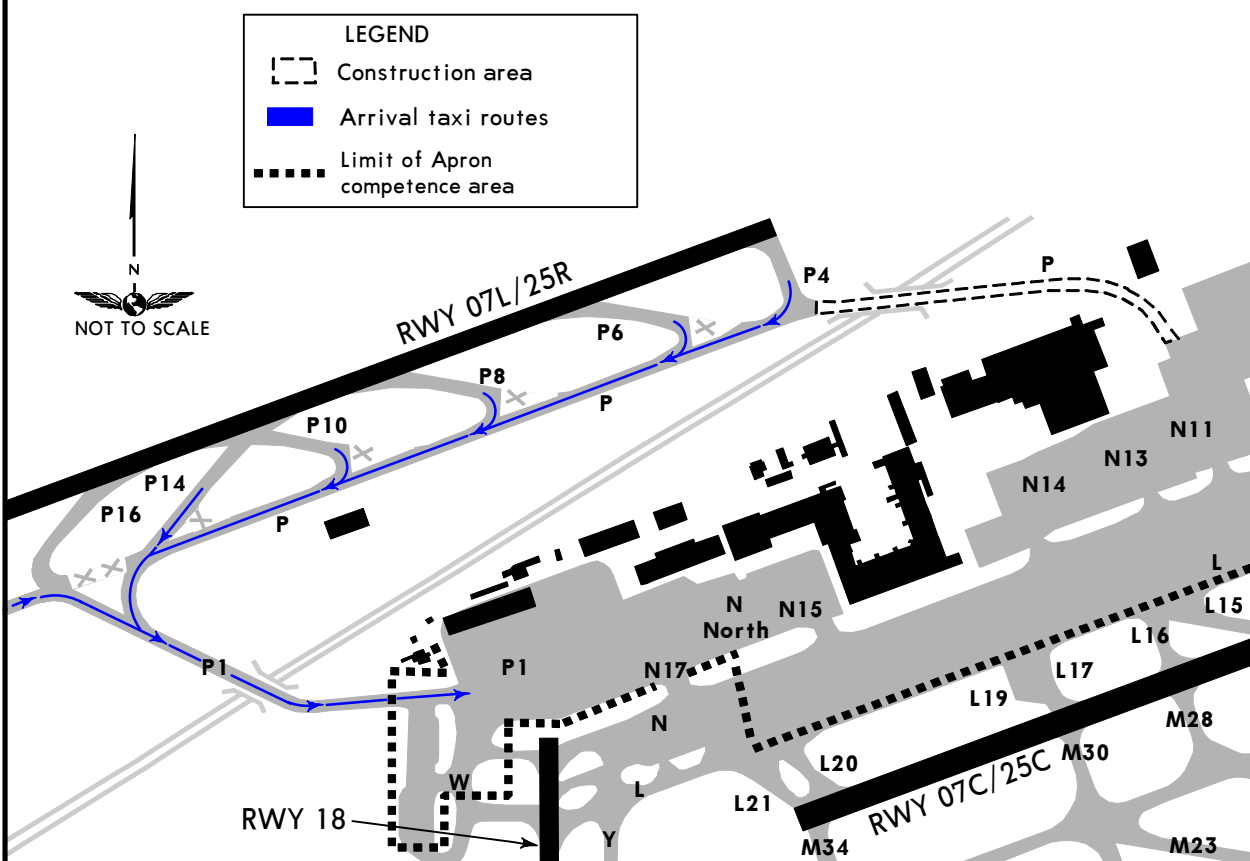
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 29 MAR 24 (10-8C) FRANKFURT/MAIN

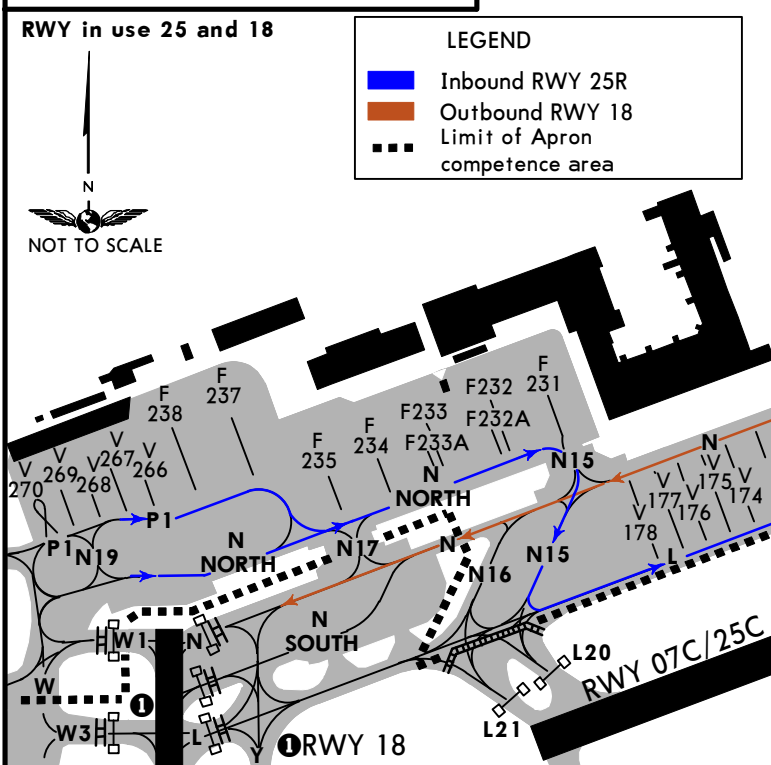
PARTIAL CLOSURE OF TWY P
 REFER ALSO TO LATEST NOTAMS

GENERAL INFORMATION

The eastern taxiway bridges will be reconstructed. TWY P will be closed between TWYs P4 and N11 during this period. The junctions leading to TWYs P4, P6, P8, P10 and P14 to the East will be marked as closed by means of red stop bar lights. After landing on RWY 07L/25R, access to the apron will exclusively be via TWY P.



OPERATING DIRECTION 25



All taxiing traffic (inbound) from RWY 25R will be routed via TWYs P1, N-North, N15 and onwards via TWY L to the East. All taxiing traffic (outbound) will be conducted according to the standard.

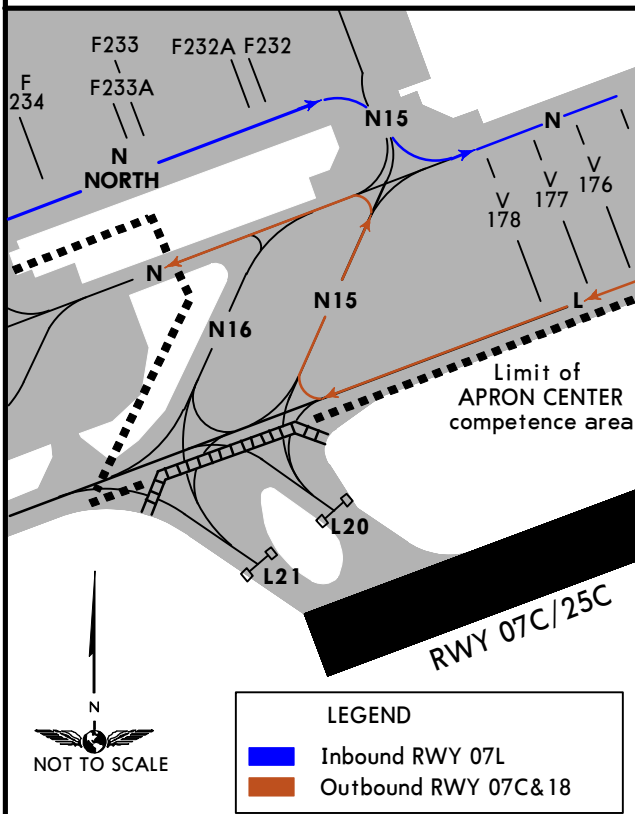
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 29 MAR 24 (10-8D) FRANKFURT/MAIN

PARTIAL CLOSURE OF TWY P (contd)

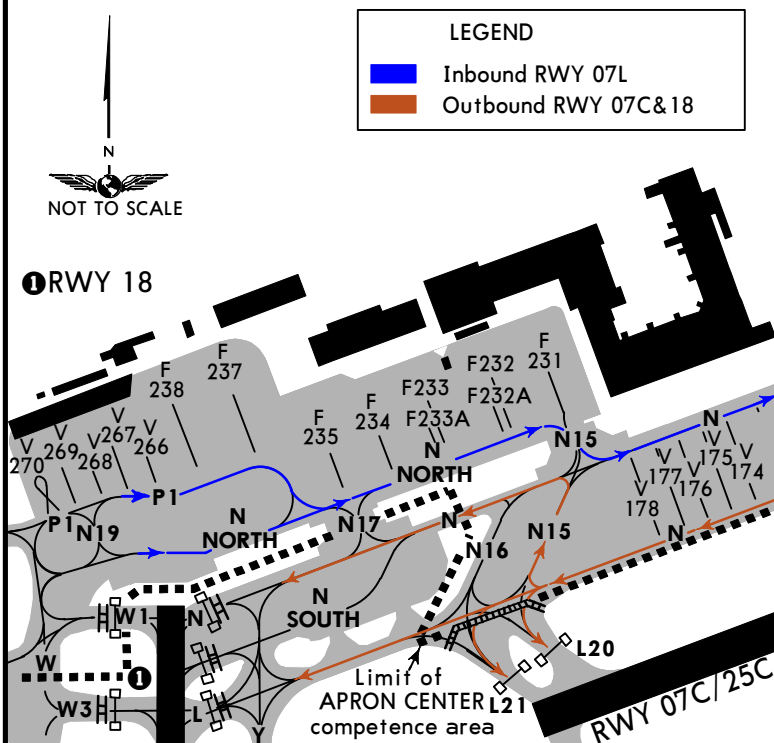
REFER ALSO TO LATEST NOTAMS

OPERATING DIRECTION 07



All taxiing traffic (inbound) from RWY 07L will be routed via TWYs P1, N-North, N15 and onwards via TWY N to the East. Taxiing traffic (outbound) in the direction of RWY 18 will be routed via TWY L according to the standard. Pilots who are unable to accept a take-off run on RWY 18 after guidance from TWY L shall notify apron control in good time. In this case, taxiing traffic (outbound) in the direction of RWY 18 will be routed via TWYs L, Y and N. The transfer of taxiing traffic (outbound) in the direction of RWY 18 between apron control and the control tower is conducted in front of TWY L20. Alternatively, acft can also be routed via TWYs L, N15 and N. Acft turning East onto TWY N from TWY N15 (coming from the north) do not conflict with acft turning West onto TWY N from TWY N15 (coming from the South).

RWY in use 07 and 18

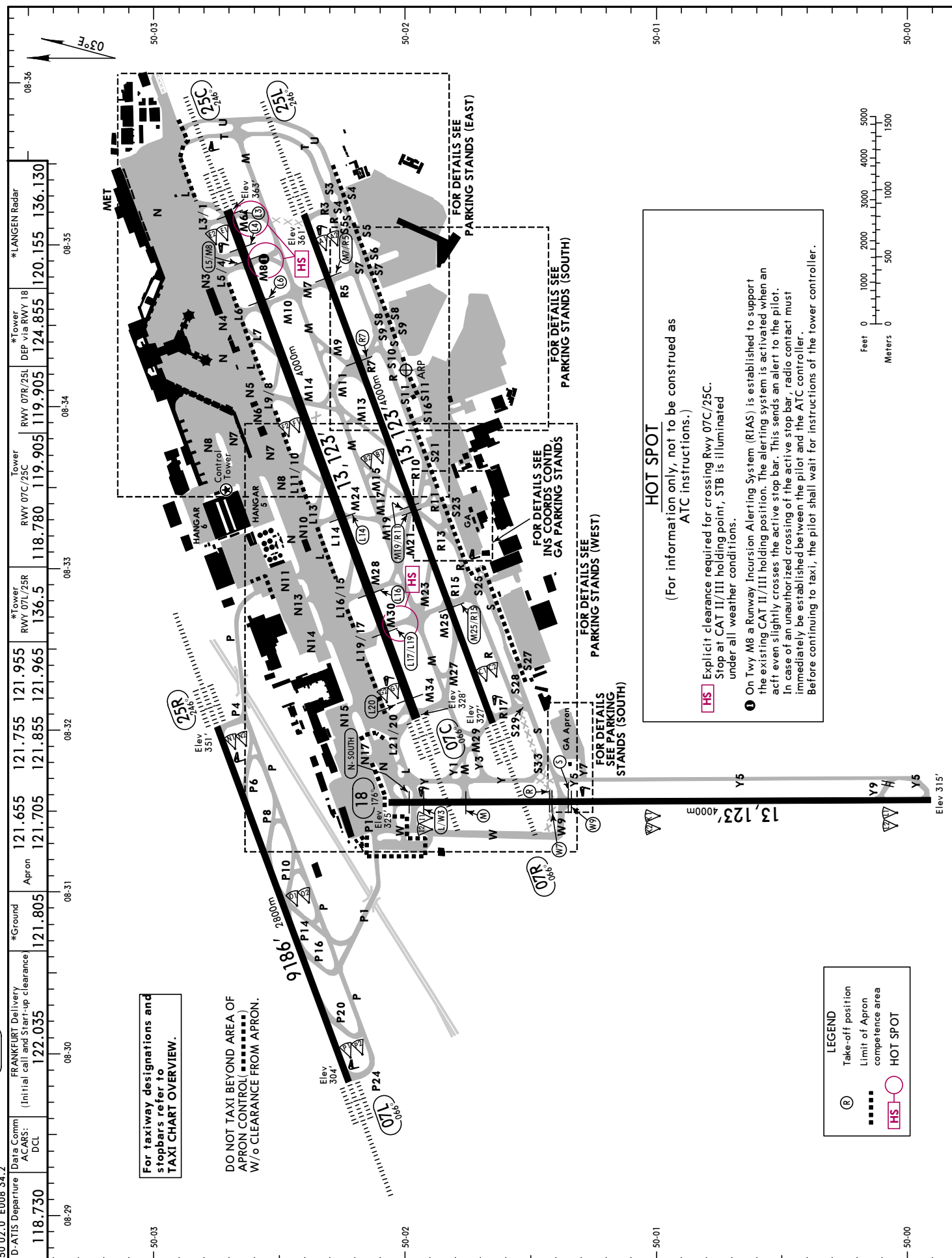


Taxiing traffic (outbound) in the direction of RWY 07C will be routed via TWY L. Acft up to ICAO category Medium for which an intersection take-off is requested with apron control will be transferred to the control tower in good time. Pilots should inform the tower as early as with the start-up approval whether they accept an intersection take-off 07C. For operating direction 07, Sulu departures might be proactively moved from RWY 07C to RWY 18.

Vacate the RWY as quickly as possible after landing, being ready for take-off at the RWY when departing, and taxiing off immediately upon receipt of the take-off clearance. In general, all acft of categories Medium and Light departing from RWY 18 should also prepare for a take-off from TWY M or TWY S. All aircraft parked on aircraft stands East of TWY N4 shall expect to taxi to RWY 18 via TWYs U, T, R and S. The exact closing hours and closed areas of the taxiways concerned will be announced via NOTAM.

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EDDF / FRA
Apt Elev 363',
NS0 02.0 E008 34.2
26 JAN 24 10-9



D-ATIS Departure 118.730	Data Comm ACARS: DCL	*Ground 121.805	Apron 121.755	121.755	121.955	*Tower RWY 07L/25R 136.5	118.780	119.905	124.855	*Tower RWY 07R/25L 119.905	120.155	136.130	*LANGEN Radar
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For taxiway designations and stopbars refer to TAXI CHART OVERVIEW.

DO NOT TAXI BEYOND AREA OF APRON CONTROL (-----) W/O CLEARANCE FROM APRON.

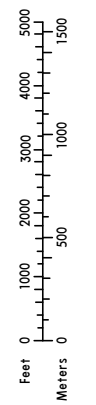
HOT SPOT
(For information only, not to be construed as ATC instructions.)

HS Explicit clearance required for crossing Rwy 07C/25C. Stop at CAT II/III holding point, STB is illuminated under all weather conditions.

1 On Twy M8 a Runway Incursion Alerting System (RIAS) is established to support the existing CAT II/III holding position. The alerting system is activated when an aircraft slightly crosses the active stop bar. This sends an alert to the pilot. In case of an unauthorized crossing of the active stop bar, radio contact must immediately be established between the pilot and the ATC controller. Before continuing to taxi, the pilot shall wait for instructions of the tower controller.

LEGEND

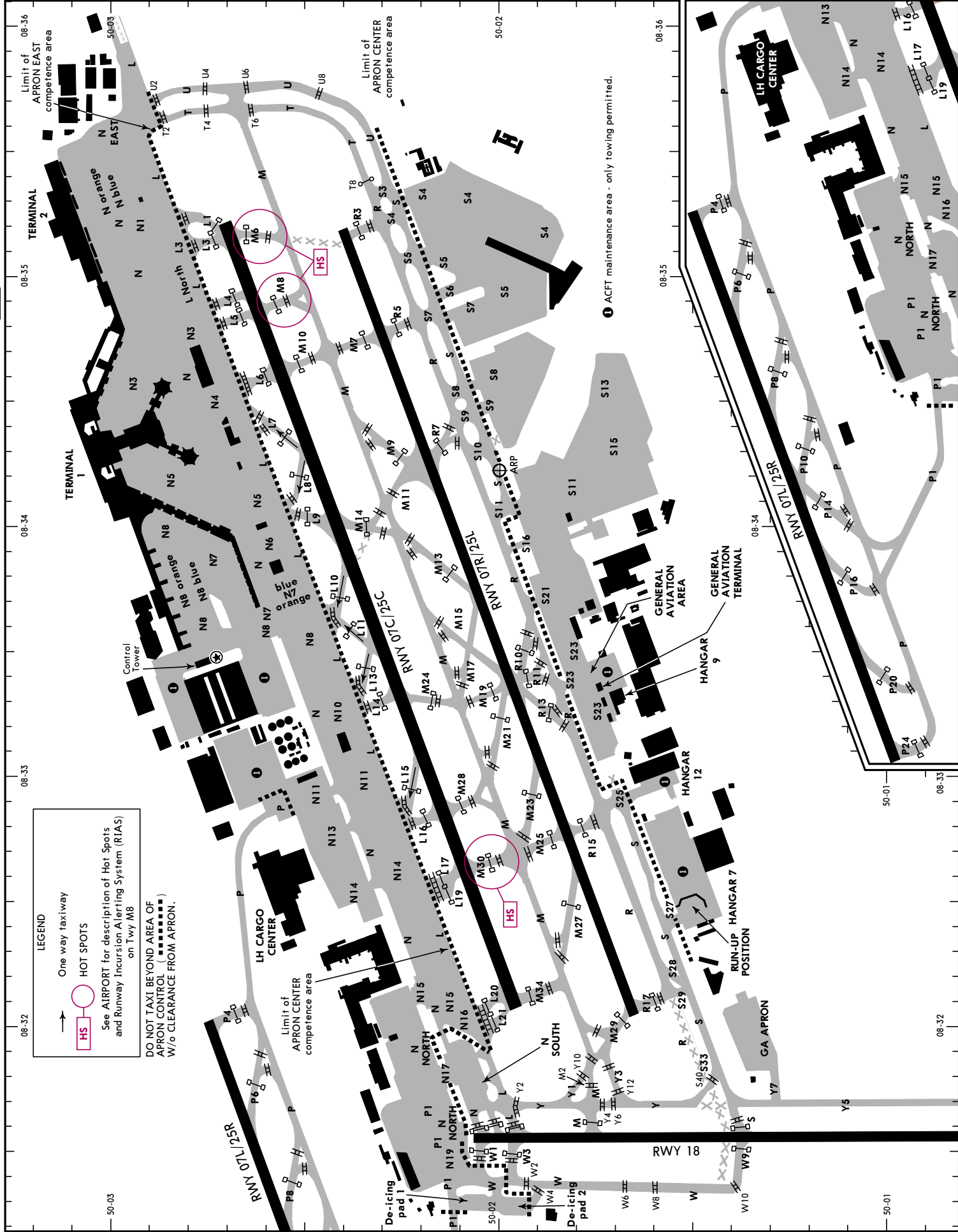
- (R) Take-off position
- Limit of Apron competence area
- HS HOT SPOT



50-03 08-36 08-35 08-34 08-33 08-32 08-31 08-30 08-29 50-02 50-01 50-00

08-29 08-30 08-31 08-32 08-33 08-34 08-35 08-36

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LEGEND

- One way taxiway
- HS HOT SPOTS
See AIRPORT for description of Hot Spots and Runway Inursion Alerting System (RIAS) on T.wy M8

DO NOT TAXI BEYOND AREA OF APRON CONTROL (---) W/o CLEARANCE FROM APRON.

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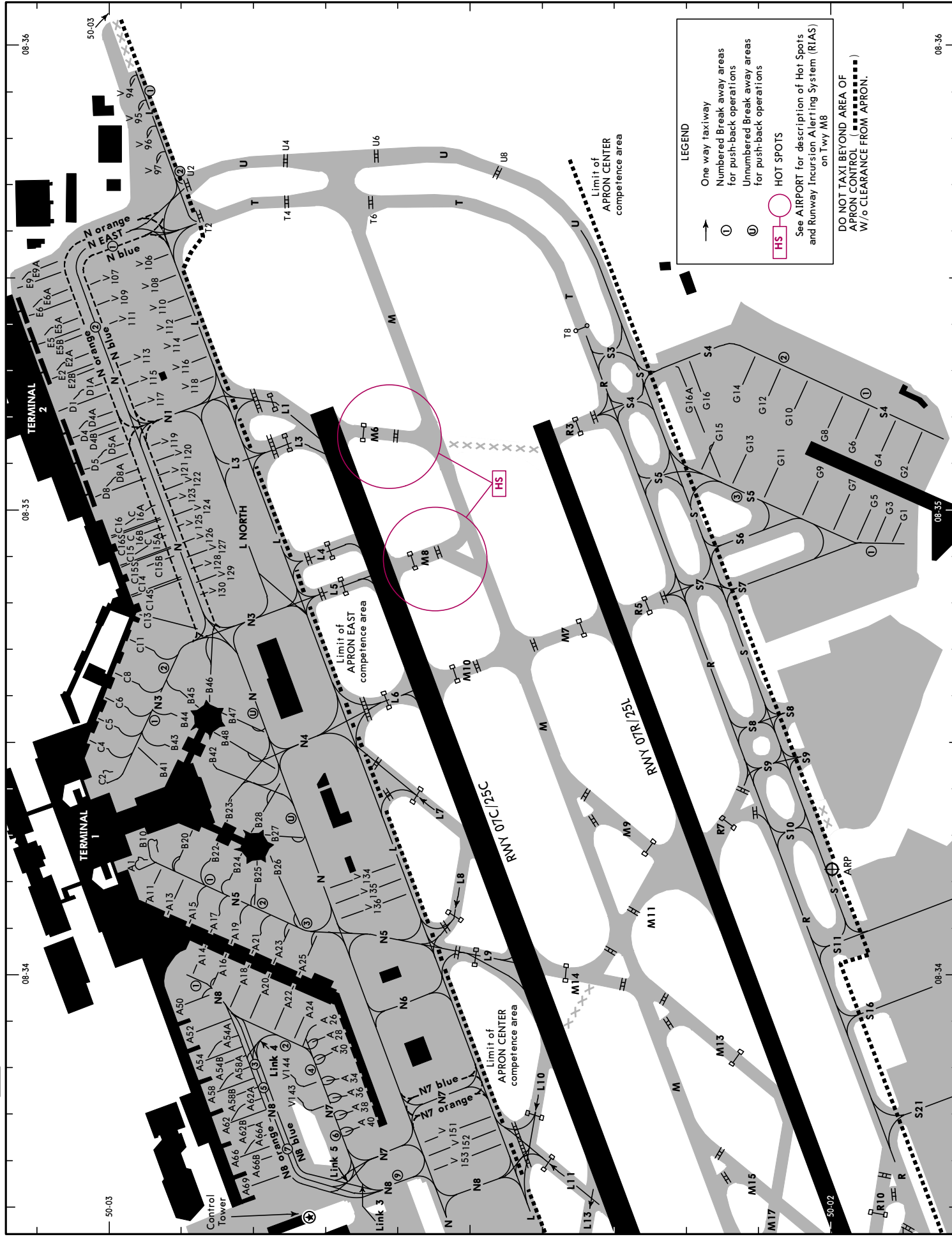
JEPPesen FRANKFURT/MAIN, GERMANY

11 AUG 23

10-9A1

FRANKFURT/MAIN

ADDITIONAL RUNWAY INFORMATION											
RWY							USABLE LENGTHS		TAKE-OFF	WIDTH	
							— LANDING BEYOND —				
							Threshold	Glide Slope			
07L	②HIRL	③CL	ALSF-II	TDZ	REIL	④PAPI-L	⑤	RVR	8215' 2504m	NA	148' 45m
①25R	②HIRL	③CL	ALSF-II	TDZ	REIL	④PAPI-R	⑥	RVR	7972' 2430m		
PAPI systems: For all acft on ILS CAT I approaches PAPI is only usable up to a height of 200' referring to the respective threshold.											
① RWY porous friction course (antiskid surface) ② spacing 60m. ③ spacing 15m ④ (angle 3.0°/3.2°) ⑤ HST-P8 & P10 ⑥ HST-P16 & P20											
07C	⑦HIRL	⑧CL	ALSF-II	③TDZ	REIL	⑩⑪		RVR	11,968' 3648m	⑬	197' 60m
25C	⑦HIRL	⑧CL	③ALSF-II	③TDZ	REIL	⑩⑫		RVR			
PAPI systems: For all acft on ILS CAT I approaches PAPI is only usable up to a height of 200' referring to the respective threshold.											
⑦ spacing 60m ⑧ LED lights ⑨ spacing 15m ⑩ PAPI-L (3.0°/3.2°) ⑪ HST-L11 & L7 ⑫ HST-L8, L10, L13 & L15 ⑬ TAKE-OFF RUN AVAILABLE RWY 07C: From rwy head 13,123'(4000m) position L20 12,933'(3942m) position L17/L19/M30 10,866'(3312m) position L16/M28 9882'(3012m) position M24 8018'(2444m) position L14 7913'(2412m) RWY 25C: From rwy head 13,123'(4000m) position L3 13,031'(3972m) position L4 12,139'(3700m) position L5/M8 11,795'(3595m) position L6/M10 10,715'(3266m)											
07R	⑭HIRL	⑮CL	ALSF-II	⑮TDZ	REIL	⑰⑱		RVR	12,090' 3685m	⑳	148' 45m
25L	⑭HIRL	⑮CL	⑮ALSF-II	⑮TDZ	REIL	⑰⑲		RVR	11,909' 3630m		
PAPI systems: For all acft on ILS CAT I approaches PAPI is only usable up to a height of 200' referring to the respective threshold.											
⑭ spacing 60m ⑮ LED lights ⑯ spacing 15m ⑰ PAPI-L (3.0°/3.2°) ⑱ HST-M15, M13, M9 & R10 ⑲ HST-M17, M21, M23, M27 & R13 ⑳ TAKE-OFF RUN AVAILABLE RWY 07R: From rwy head 13,123'(4000m) position M25/R15 10,121'(3085m) position M19/R11 7644'(2330m) RWY 25L: From rwy head 13,123'(4000m) position M7/R5 11,463'(3494m) position R7 9423'(2872m) position M19 5577'(1700m)											
18	⑳HIRL (60m) ㉑CL (15m)					RVR	NA			㉒	148' 45m
㉑ LED lights ㉒ TAKE-OFF RUN AVAILABLE RWY 18: From rwy head 13,025'(3970m) position N-SOUTH 12,776'(3894m) position L 12,543'(3823m) position W3 12,523'(3817m) position M 11,332'(3454m) position R 9324'(2842m) position W7 9262'(2823m) position S 9039'(2755m) position W9 8944'(2726m)											
Std/State											
TAKE-OFF											
Rwys 07C/R, 18, 25L/C											
Low Visibility Procedures required											
Approval for Low Visibility Take-off required											
				RCLM or RL or CL	RL or CL	Adequate Vis Ref					
RCLM & RL & CL (spacing 15m or less) & RVR	RCLM & RL & CL & RVR	RCLM & RL & RVR	RCLM & RVR & RL or CL	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT		
① R125m	R150m	R300m			R/V400m		R/V500m	NA			
① RWY 07C/R, 25L/C: R75m with approved lateral guidance system.											



LEGEND

- One way taxiway
- Numbered Break away areas for push-back operations
- Unnumbered Break away areas for push-back operations
- HS** HOT SPOTS

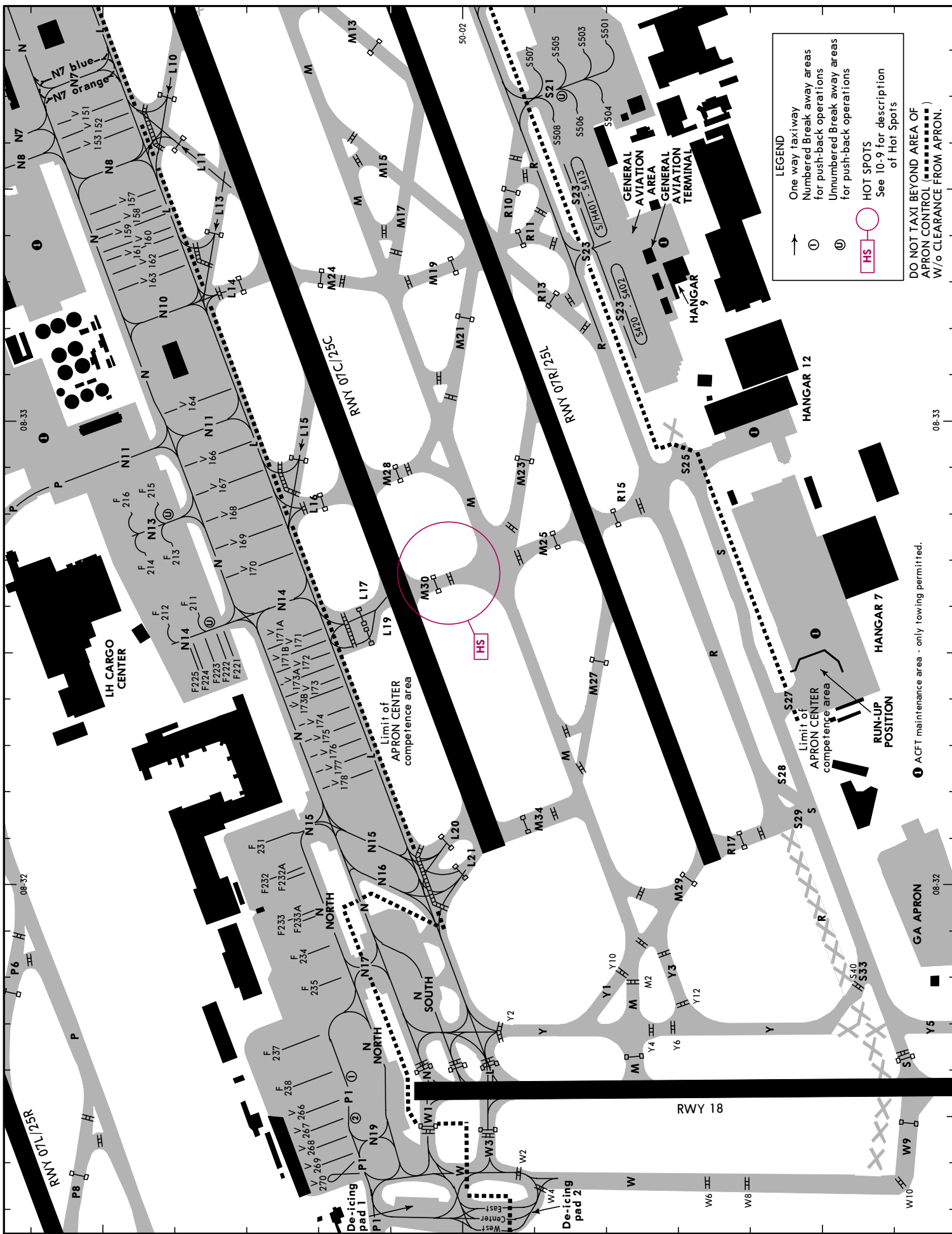
See AIRPORT for description of Hot Spots and Runway Incursion Alerting System (RIAS) on Twy M8

DO NOT TAXI BEYOND AREA OF APRON CONTROL () W/O CLEARANCE FROM APRON.

JEPPESEN FRANKFURT / MAIN, GERMANY
FRANKFURT / MAIN

29 MAR 24 10-9C

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LEGEND

- One way taxiway
- Numbered Break away areas for push-back operations
- Unnumbered Break away areas for push-back operations
- HS** HOT SPOTS See 10-9 for description of Hot Spots

DO NOT TAXI BEYOND AREA OF APRON CONTROL (-----) W/o CLEARANCE FROM APRON.

ACFT maintenance area - only towing permitted.

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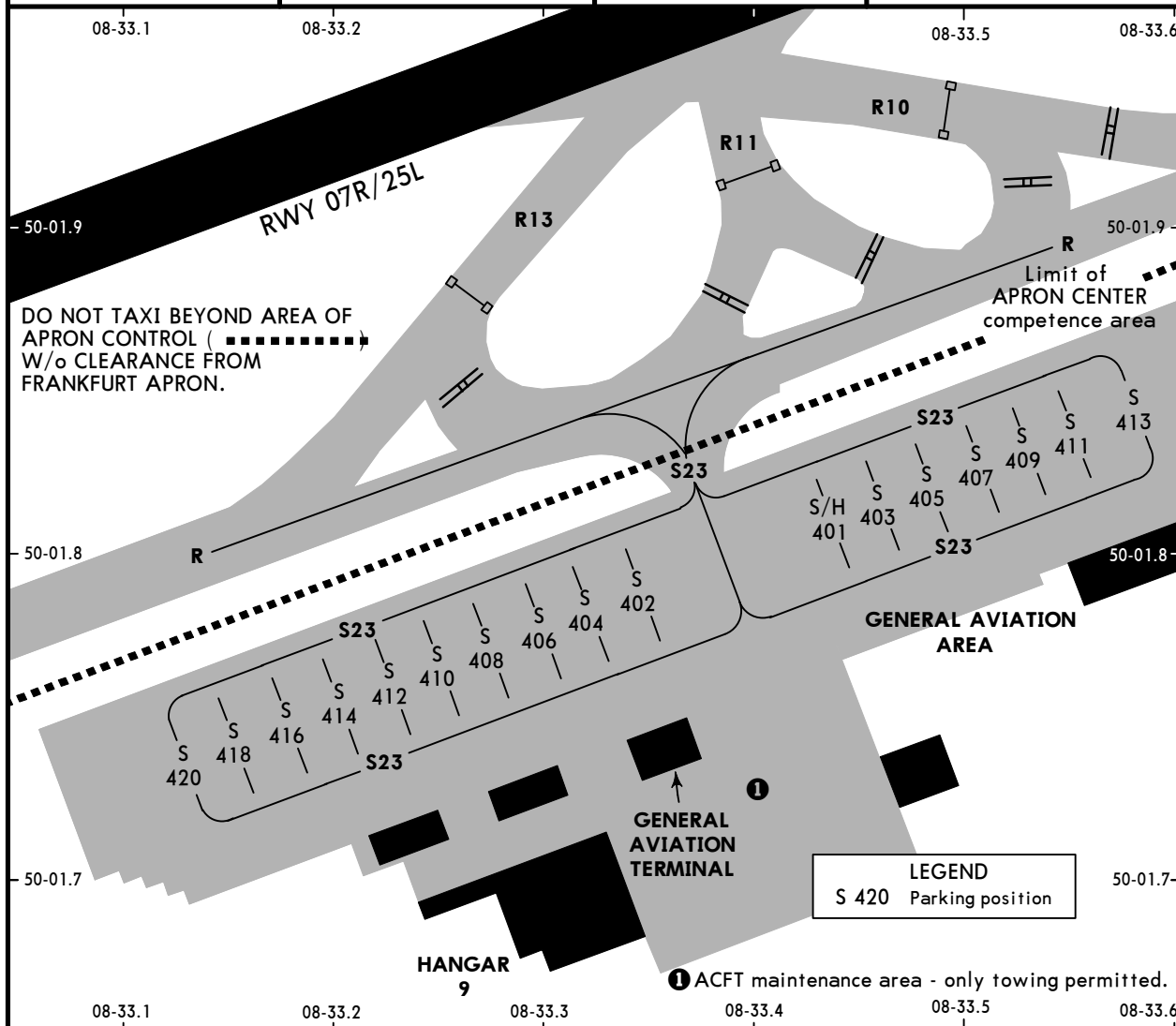
JEPPESEN FRANKFURT/MAIN, GERMANY
 29 MAR 24 (10-9D) FRANKFURT/MAIN

INS COORDINATES			
STAND No.	COORDINATES	STAND No.	COORDINATES
A1	N50 02.9 E008 34.3	F237	N50 02.3 E008 31.7
A11	N50 02.9 E008 34.2	F238	N50 02.2 E008 31.6
A13 thru A15	N50 02.9 E008 34.1	G1	N50 01.9 E008 35.0
A16	N50 02.8 E008 34.1	G2	N50 01.9 E008 35.1
A17	N50 02.9 E008 34.1	G3	N50 01.9 E008 35.0
A18	N50 02.8 E008 34.0	G4	N50 01.9 E008 35.1
A19	N50 02.8 E008 34.1	G5	N50 01.9 E008 35.0
A20	N50 02.8 E008 34.0	G6, G7	N50 02.0 E008 35.1
A21	N50 02.8 E008 34.1	G8	N50 02.0 E008 35.2
A22	N50 02.7 E008 34.0	G9	N50 02.0 E008 35.1
A23	N50 02.8 E008 34.0	G10	N50 02.1 E008 35.2
A24, A25	N50 02.7 E008 34.0	G11	N50 02.1 E008 35.1
A26 thru A30	N50 02.7 E008 33.9	G12, G13	N50 02.1 E008 35.2
A34, A36	N50 02.6 E008 33.8	G14	N50 02.1 E008 35.3
A38, A40	N50 02.6 E008 33.7	G15	N50 02.1 E008 35.2
A50, A52	N50 02.9 E008 33.9	G16	N50 02.2 E008 35.2
A54 thru A58	N50 02.9 E008 33.8	G16A	N50 02.2 E008 35.3
A58A	N50 02.8 E008 33.8	H2	N50 01.9 E008 34.9
A58B thru A62B	N50 02.8 E008 33.7	H4	N50 01.9 E008 34.8
A66 thru A69	N50 02.8 E008 33.6	H6	N50 02.0 E008 34.8
B10, B20	N50 02.9 E008 34.3	H14	N50 02.1 E008 34.8
B22 thru B28	N50 02.8 E008 34.3	J2A thru J2B	N50 01.9 E008 34.6
B41 thru B43	N50 02.9 E008 34.5	J4 thru J6B	N50 01.9 E008 34.5
B44 thru B46	N50 02.9 E008 34.6	J8	N50 02.0 E008 34.4
B47	N50 02.8 E008 34.6	K2	N50 01.7 E008 34.7
B48	N50 02.9 E008 34.5	K4	N50 01.7 E008 34.6
C2, C4	N50 03.0 E008 34.5	K6, K8	N50 01.6 E008 34.5
C5, C6	N50 03.0 E008 34.6	K10	N50 01.6 E008 34.4
C8, C11	N50 03.0 E008 34.7	S401, S402	N50 01.8 E008 33.4
C13 thru C14S	N50 03.0 E008 34.8	S403	N50 01.8 E008 33.5
C15 thru C15S	N50 03.0 E008 34.9	S404	N50 01.8 E008 33.3
C16 thru C16S	N50 03.0 E008 35.0	S405	N50 01.8 E008 33.5
D1	N50 03.1 E008 35.2	S406	N50 01.8 E008 33.3
D1A thru D4B	N50 03.0 E008 35.2	S407	N50 01.8 E008 33.5
D5, D5A	N50 03.0 E008 35.1	S408	N50 01.8 E008 33.3
D8	N50 03.0 E008 35.0	S409	N50 01.8 E008 33.6
D8A	N50 03.0 E008 35.1	S410	N50 01.8 E008 33.3
E2 thru E2B	N50 03.1 E008 35.3	S411	N50 01.8 E008 33.6
E5 thru E6A	N50 03.1 E008 35.4	S412	N50 01.7 E008 33.2
E9, E9A	N50 03.1 E008 35.5	S413	N50 01.8 E008 33.6
F211	N50 02.4 E008 32.7	S414 thru S418	N50 01.7 E008 33.2
F212	N50 02.4 E008 32.6	S420	N50 01.7 E008 33.1
F213, F214	N50 02.4 E008 32.7	S501, S503	N50 01.8 E008 33.9
F215	N50 02.4 E008 32.9	S504	N50 01.8 E008 33.7
F216	N50 02.5 E008 32.9	S505	N50 01.9 E008 33.8
F221, F222	N50 02.3 E008 32.5	S506	N50 01.8 E008 33.6
F223	N50 02.3 E008 32.4	S507	N50 01.9 E008 33.8
F224, F225	N50 02.4 E008 32.4	S508	N50 01.9 E008 33.6
F231	N50 02.3 E008 32.1	S601	N50 01.9 E008 34.1
F232	N50 02.3 E008 32.0	S602	N50 01.8 E008 33.9
F232A	N50 02.2 E008 32.0	S603	N50 01.9 E008 34.1
F233	N50 02.3 E008 31.9	S604	N50 01.9 E008 33.9
F233A	N50 02.2 E008 32.0		
F234	N50 02.3 E008 31.8		
F235	N50 02.2 E008 31.8		

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JEPPESEN FRANKFURT/MAIN, GERMANY
 29 MAR 24 (10-9E)
 FRANKFURT/MAIN

INS COORDINATES			
STAND No.	COORDINATES	STAND No.	COORDINATES
V92, V93	N50 03.0 E008 36.0	V171 thru V172	N50 02.2 E008 32.5
V94, V95	N50 03.0 E008 35.9	V173	N50 02.2 E008 32.4
V96	N50 03.0 E008 35.8	V173A	N50 02.2 E008 32.5
V97	N50 02.9 E008 35.7	V173B, V174	N50 02.2 E008 32.4
V106 thru V111	N50 03.0 E008 35.5	V175, V176	N50 02.2 E008 32.3
V112 thru V114	N50 02.9 E008 35.4	V177, V178	N50 02.1 E008 32.2
V115 thru V118	N50 02.9 E008 35.3	V322	N50 01.6 E008 34.1
V119	N50 02.9 E008 35.2	V324, V326	N50 01.7 E008 34.1
V120 thru V123	N50 02.9 E008 35.1	V328	N50 01.8 E008 34.1
V124, V125	N50 02.9 E008 35.0	V266 thru V268	N50 02.2 E008 31.5
V126	N50 02.8 E008 35.0	V269, V270	N50 02.2 E008 31.4
V127 thru V130	N50 02.8 E008 34.9	V701	N50 01.3 E008 31.9
V134 thru V136	N50 02.6 E008 34.2	V702	N50 01.4 E008 31.8
V143	N50 02.7 E008 33.7	V704, V706, V708	N50 01.4 E008 31.9
V144	N50 02.7 E008 33.8	V711	N50 01.3 E008 32.0
V151, V152	N50 02.5 E008 33.7	V712	N50 01.4 E008 32.0
V153	N50 02.5 E008 33.6	V713	N50 01.3 E008 32.0
V157	N50 02.5 E008 33.5	V714	N50 01.4 E008 32.0
V158, V159	N50 02.4 E008 33.5	V715	N50 01.3 E008 32.0
V160 thru V162	N50 02.4 E008 33.4	V716	N50 01.4 E008 32.0
V163	N50 02.4 E008 33.3	V717	N50 01.3 E008 32.0
V164	N50 02.3 E008 33.1	V718	N50 01.4 E008 32.0
V166, V167	N50 02.3 E008 32.9	V719, V721	N50 01.3 E008 32.1
V168, V169	N50 02.3 E008 32.8		
V170	N50 02.3 E008 32.7		



CHANGES: Stand H402 withdrawn.

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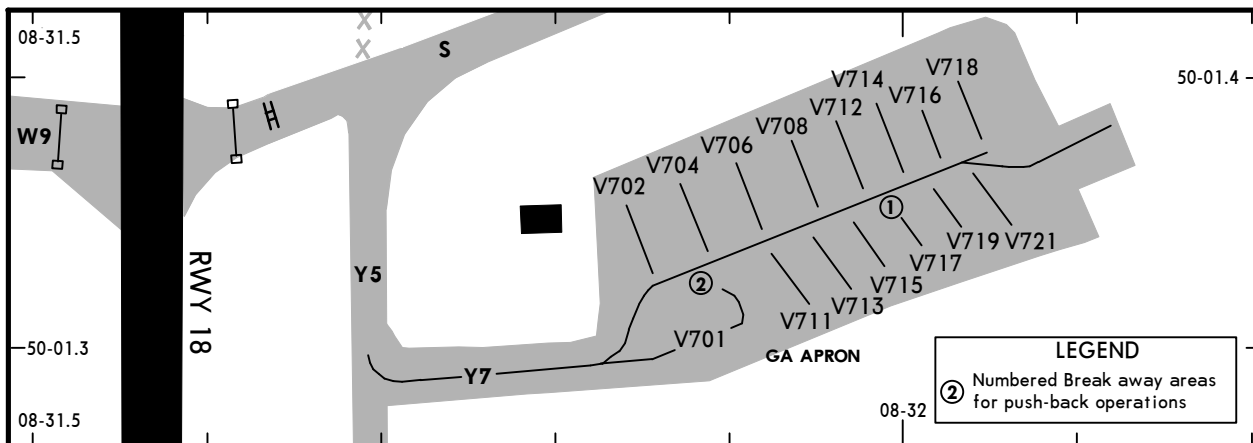
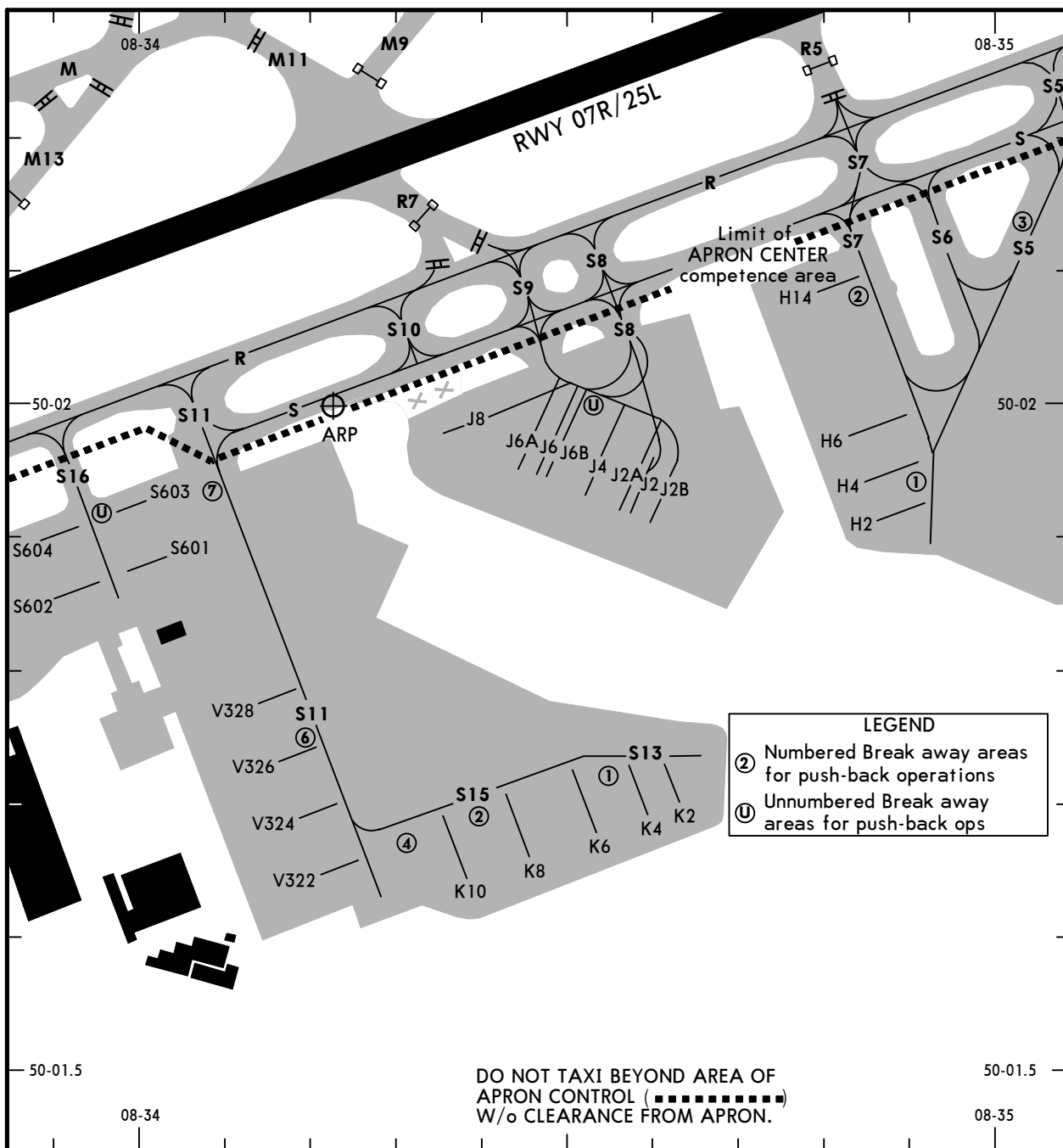


JEPPESEN FRANKFURT/MAIN, GERMANY

18 AUG 23

10-9E1

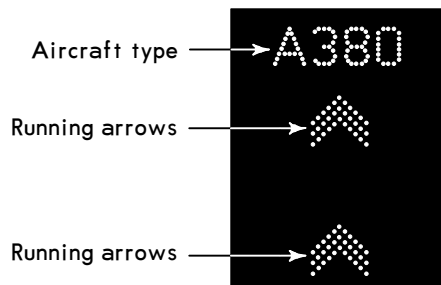
FRANKFURT/MAIN



ADVANCED VISUAL DOCKING GUIDANCE SYSTEM (A-VDGS)

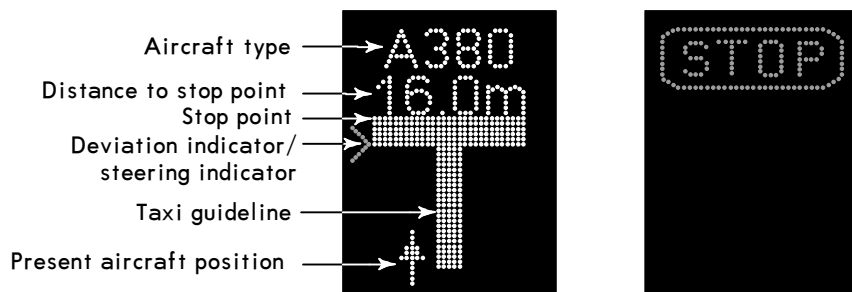
DISPLAY OF IMAGES AND FUNCTIONS ON THE PANEL

Examples:



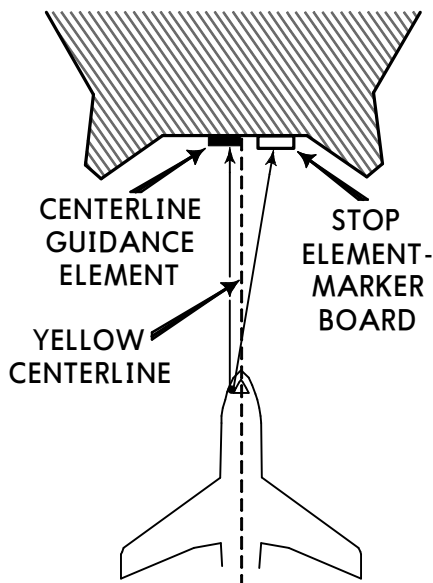
Safety Information:

- If a pilot is unsure of the information shown on the display the acft has to be stopped immediately and further information for clearance needs to be obtained.
- A pilot shall not enter the stand area unless the vertical running arrows are displayed on the docking system and unless the acft type displayed matches the approaching acft.
- The pilot shall not proceed beyond the first passenger loading bridge in sight unless the running arrows are superseded by the final lead-in information (distance to stop-point, stop-point, deviation indicator or steering direction, taxi guidance line, present acft position). The same applies in case the display shows "WAIT", "WAIT VIEW BLOCK" or "WAIT GATE BLOCK" or "WAIT ID FAIL".



Depending on the system type, displays can be slightly different or additional.

AIRCRAFT GUIDANCE FOR NOSE-IN STANDS (AGNIS)



GENERAL

The visual guidance system for nose-in parking positions AGNIS (Aircraft Guidance for Nose-In Stands) consists of the following elements:

1. CENTERLINE GUIDANCE ELEMENT
2. YELLOW CENTERLINE
3. STOP ELEMENT - MARKER BOARD

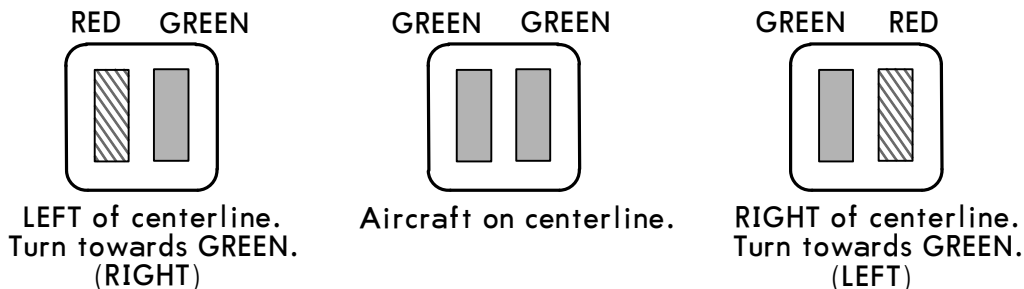
CAUTION

The system is aligned with the LEFT hand pilot seat only. In case of AGNIS failure, nose-in positioning will be guided by marshaller.

NOTE: Nose-in parking aircraft (on push-back position) have to use towing truck when leaving parking position.

CENTERLINE GUIDANCE ELEMENT

Approach the parking position along the yellow centerline so that both vertical slots in the Centerline Guidance Element show GREEN. Adjustments to the left or right shall always be made towards the GREEN.



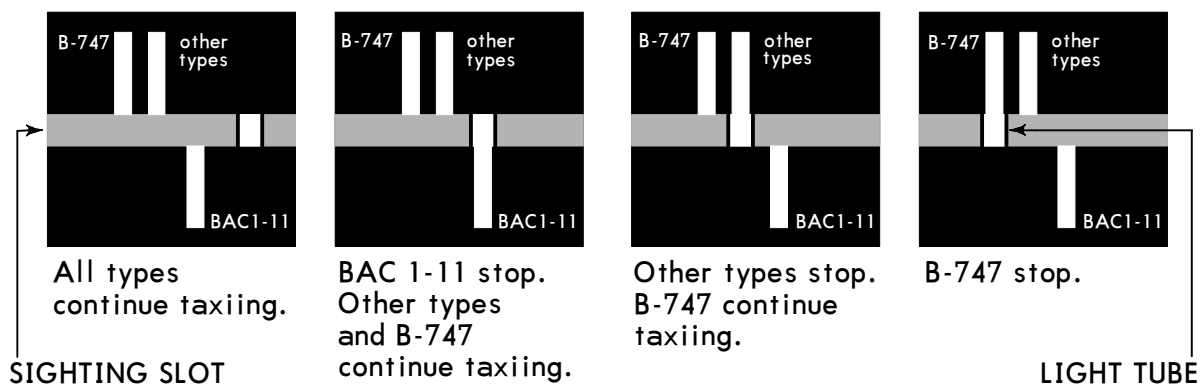
STOP ELEMENT - MARKER BOARD

The aircraft is stopped at the correct position by means of the Stop Element. When the tubular light, visible through the horizontal slot in the marker board, registers in line with the appropriate vertical reference mark, the aircraft has reached the correct stopping position.

CAUTION

Be sure to select the correct vertical reference mark corresponding to your type of aircraft. Marker board layouts are different for the various nose-in parking positions.

AGNIS CENTRE LINE GUIDANCE STOP ELEMENT - MARKER BOARD

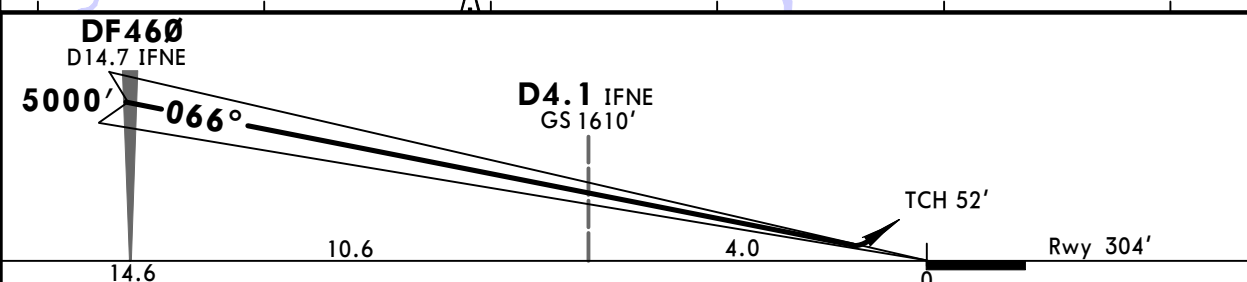
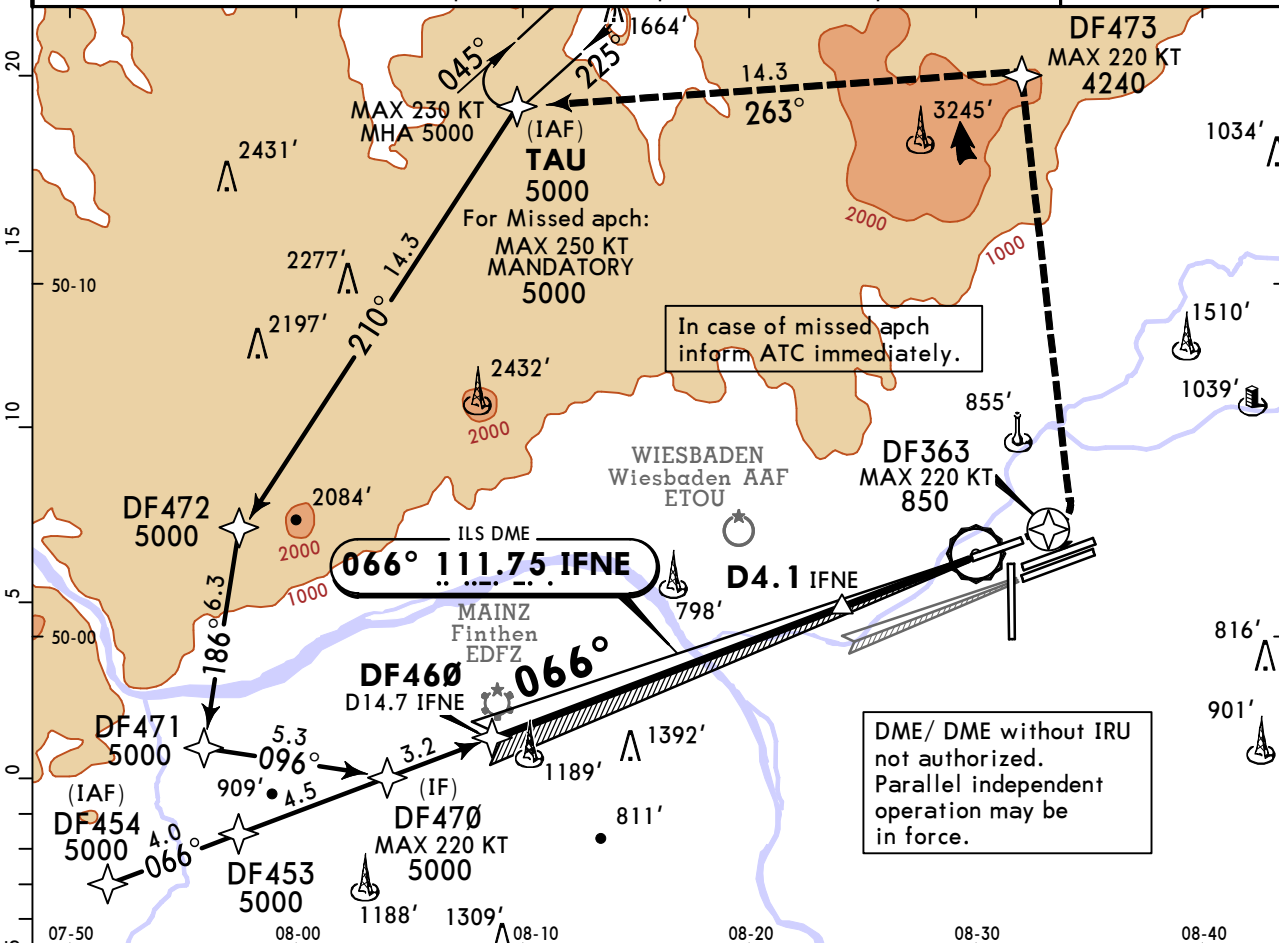


EDDF/FRA
FRANKFURT/MAIN

7 JUL 23
Eff 13 Jul (11-1)

JEPPESSEN FRANKFURT/MAIN, GERMANY
ILS Z Rwy 07L

D-ATIS Arrival	LANGEN Radar (APP) North	LANGEN Radar (APP) South	*FRANKFURT Director (APP)	*FRANKFURT Tower	*Ground
118.030	120.805	125.355	118.505 127.280	136.5	121.805
LOC IFNE	Final Apch Crs	DF460	DA(H) Refer to Minimums	Apt Elev 363'	4300
111.75	066°	5000' (4696')		Rwy 304'	
MISSED APCH: Direct to DF363 at or above 850' (MAX 220 KT), turn LEFT direct to DF473 at or above 4240' (MAX 220 KT), then to TAU VOR at 5000' (MAX 250 KT). Missed apch requires a min climb of 4.1% (250'/NM) to 3500'.					
Alt Set: hPa(IN on req) Rwy Elev: 11 hPa Trans level: By ATC Trans alt: 5000'					MSA ARP
1. RNAV-1 or RNP APCH or RNP-1 required. 2. DME required. 3. Radar required.					



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II	REIL PAPI	DF363	MIN 850'	MAX 220 KT
GS	3.00°	372	478	531	637	743					

Std/State	STRAIGHT-IN LANDING ILS	
	DA(H) ABC: 504' (200') D: 512' (208')	
	TDZ or CL out	ALS out
A	R550m	R1200m
B	R550m	R1200m
C	R550m	R1200m
D	R550m	R1200m

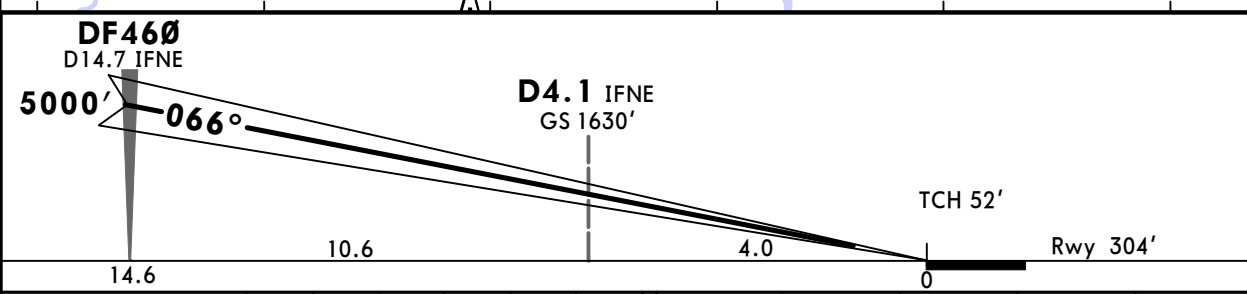
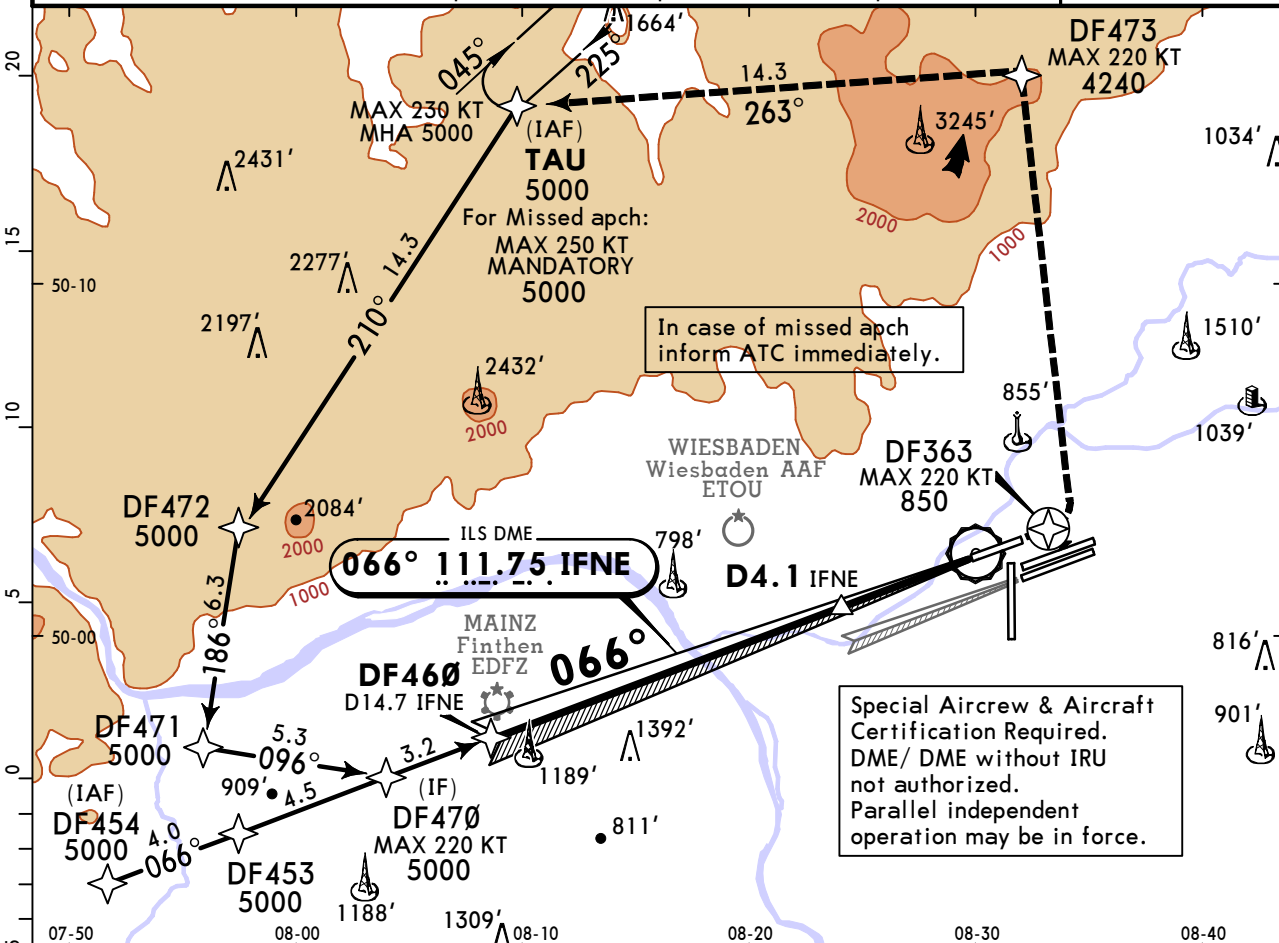
R750m when a Flight Director or Autopilot or HUDLS to DA is not used.

EDDF/FRA FRANKFURT/MAIN

JEPPESEN
7 JUL 23
Eff 13 Jul

FRANKFURT/MAIN, GERMANY CAT II/III ILS Z Rwy 07L

D-ATIS Arrival	LANGEN Radar (APP) North	South	*FRANKFURT Director (APP)	*FRANKFURT Tower	*Ground
118.030	120.805	125.355	118.505 127.280	136.5	121.805
LOC IFNE 111.75	Final Apch Crs 066°	DF460 5000' (4696')	CAT III & II ILS Refer to Minimums	Apt Elev 363' Rwy 304'	4300 MSA ARP
MISSED APCH: Direct to DF363 at or above 850' (MAX 220 KT), turn LEFT direct to DF473 at or above 4240' (MAX 220 KT), then to TAU VOR at 5000' (MAX 250 KT). Missed apch requires a min climb of 4.1% (250'/NM) to 3500'.					
Alt Set: hPa(IN on req) Rwy Elev: 11 hPa Trans level: By ATC Trans alt: 5000' 1. RNAV-1 or RNP APCH or RNP-1 required. 2. DME required. 3. Radar required.					



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	➔ DF363	MIN 850'	MAX 220 KT
GS	3.00°	372	478	531	637	743				

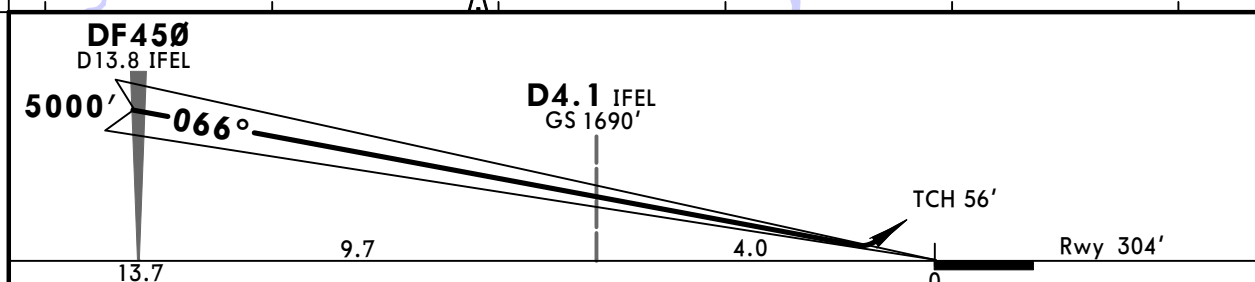
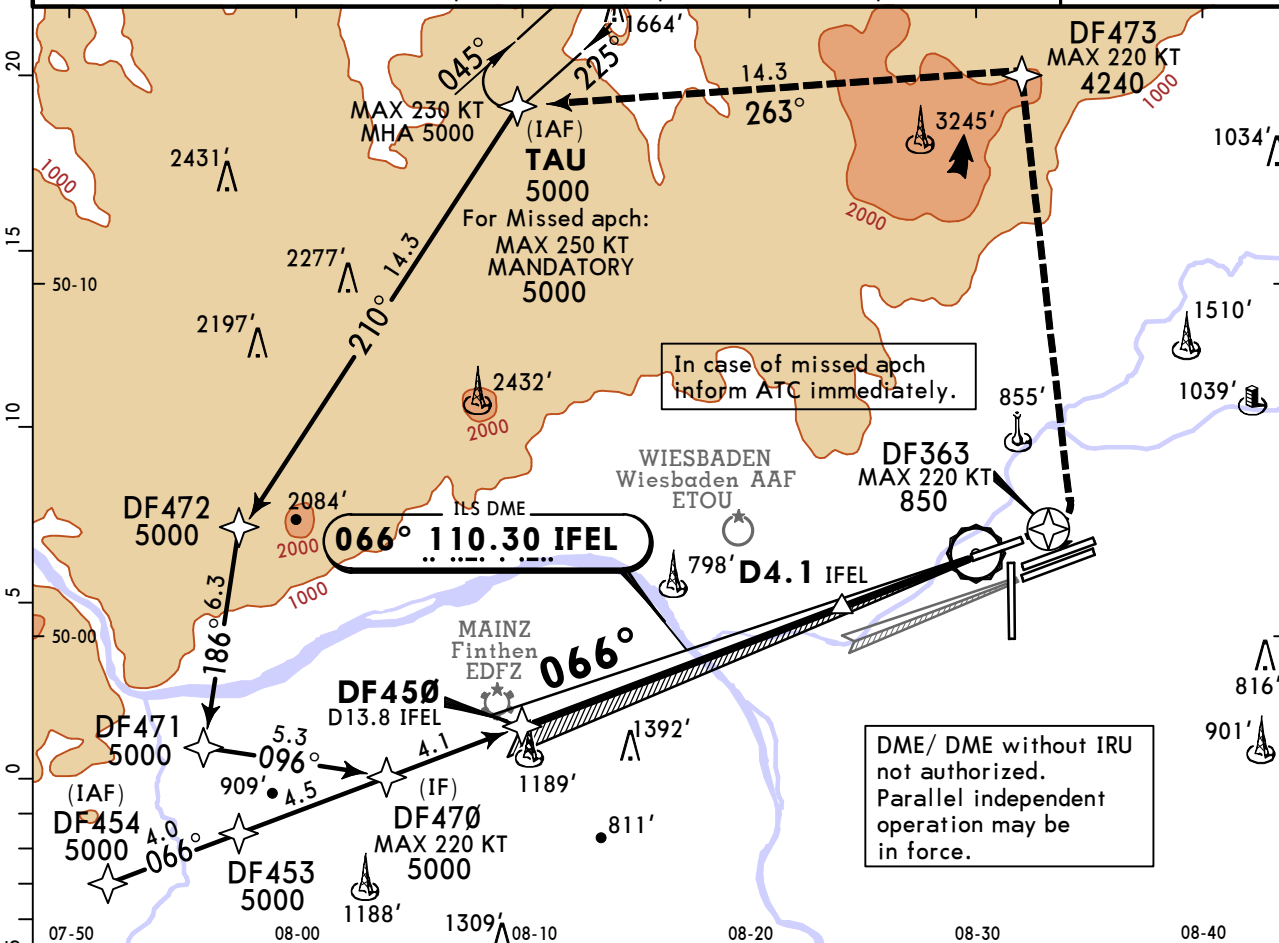
Std/State			STRAIGHT-IN LANDING		
CAT III ILS		CAT II ILS			
		A: RA 99' DA(H) 404' (100')	D: RA 132' DA(H) 437' (133')		
		B: RA 106' DA(H) 411' (107')			
		C: RA 117' DA(H) 422' (118')			
R75m		R300m		R400m	

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FRANKFURT/MAIN

JEPPESSEN FRANKFURT/MAIN, GERMANY
ILS Y Rwy 07L

22 SEP 23 (11-2)

D-ATIS Arrival	LANGEN Radar (APP)		*FRANKFURT Director (APP)		*FRANKFURT Tower	*Ground	
118.030	North 120.805	South 125.355	118.505	127.280	136.5	121.805	
LOC IFEL 110.30	Final Apch Crs 066°	DF450 5000' (4696')	DA(H) Refer to Minimums	Apt Elev 363' Rwy 304'			
MISSED APCH: Direct to DF363 at or above 850' (MAX 220 KT), turn LEFT direct to DF473 at or above 4240' (MAX 220 KT), then to TAU VOR at 5000' (MAX 250 KT). Missed apch requires a min climb of 4.1% (250'/NM) to 3500'.							
Alt Set: hPa(IN on req) Rwy Elev: 11 hPa Trans level: By ATC Trans alt: 5000' 1. RNAV-1 or RNP APCH or RNP-1 required. 2. DME required. 3. Radar required.							



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI		DF363 MIN 850' MAX
GS	3.20°	396	510	566	679	793			

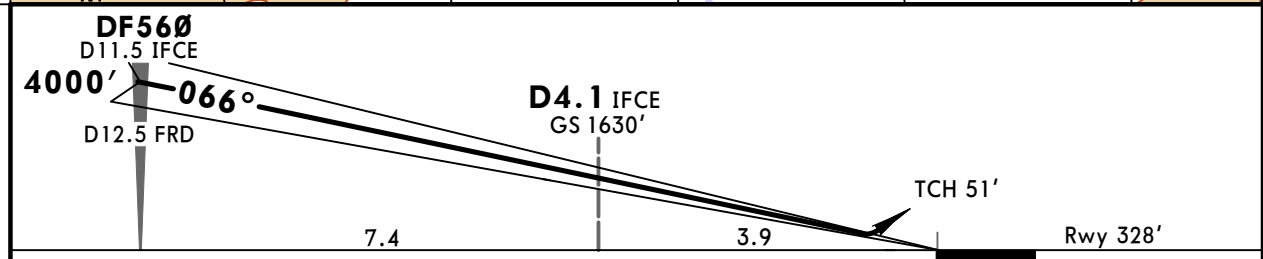
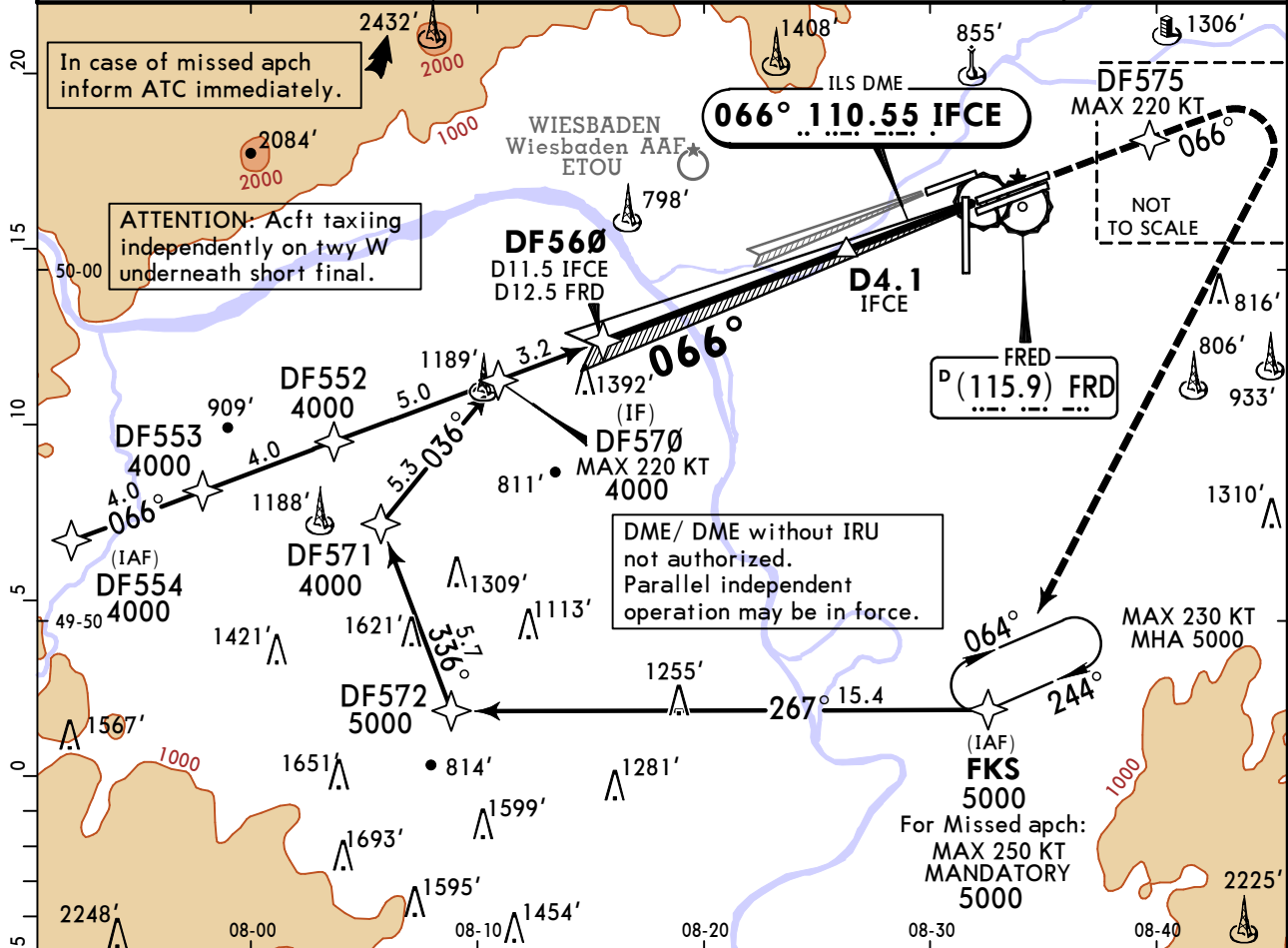
Std/State			STRAIGHT-IN LANDING ILS		
ABC: 504' (200')			DA(H)		
D: 512' (208')			TDZ or CL out		
ALS out					
A	R550m		R550m		R1200m
B					
C					
D					

1 R750m when a Flight Director or Autopilot or HUDLS to DA is not used.
 CHANGES: MSA. © JEPPESSEN, 2012, 2023. ALL RIGHTS RESERVED.

EDDF/FRA FRANKFURT/MAIN

JEPPESSEN FRANKFURT/MAIN, GERMANY 7 JUL 23 (11-3) Eff 13 Jul ILS Z Rwy 07C

D-ATIS Arrival 118.030	LANGEN Radar (APP) North 120.805	South 125.355	*FRANKFURT Director (APP) 118.505 127.280	FRANKFURT Tower 118.780 119.905	*Ground 121.805
LOC IFCE 110.55	Final Apch Crs 066°	DF560 4000' (3672')	ILS DA(H) 528' (200')	Appt Elev 363' Rwy 328'	<p>4300 MSA ARP</p>
<p>MISSED APCH: Direct to DF575 (MAX 220 KT), climb on course 066° to 5000', then turn RIGHT (MAX 220 KT) direct to FKS at 5000' (MAX 250 KT).</p>					
<p>Alt Set: hPa(IN on req) Rwy Elev: 12 hPa Trans level: By ATC Trans alt: 5000'</p>					
<p>1. RNAV-1 or RNP APCH or RNP-1 required. 2. DME required. 3. Radar required.</p>					



Gnd speed-Kts	70	90	100	120	140	160			DF575 220 KT MAX
GS	3.00°	372	478	531	637	743			

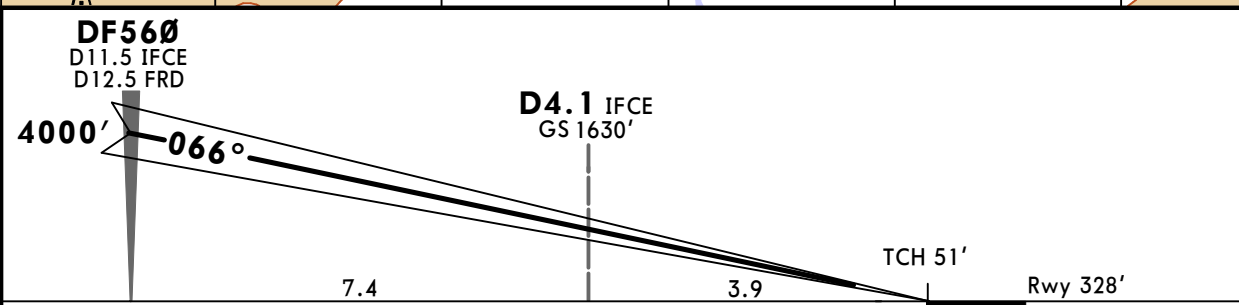
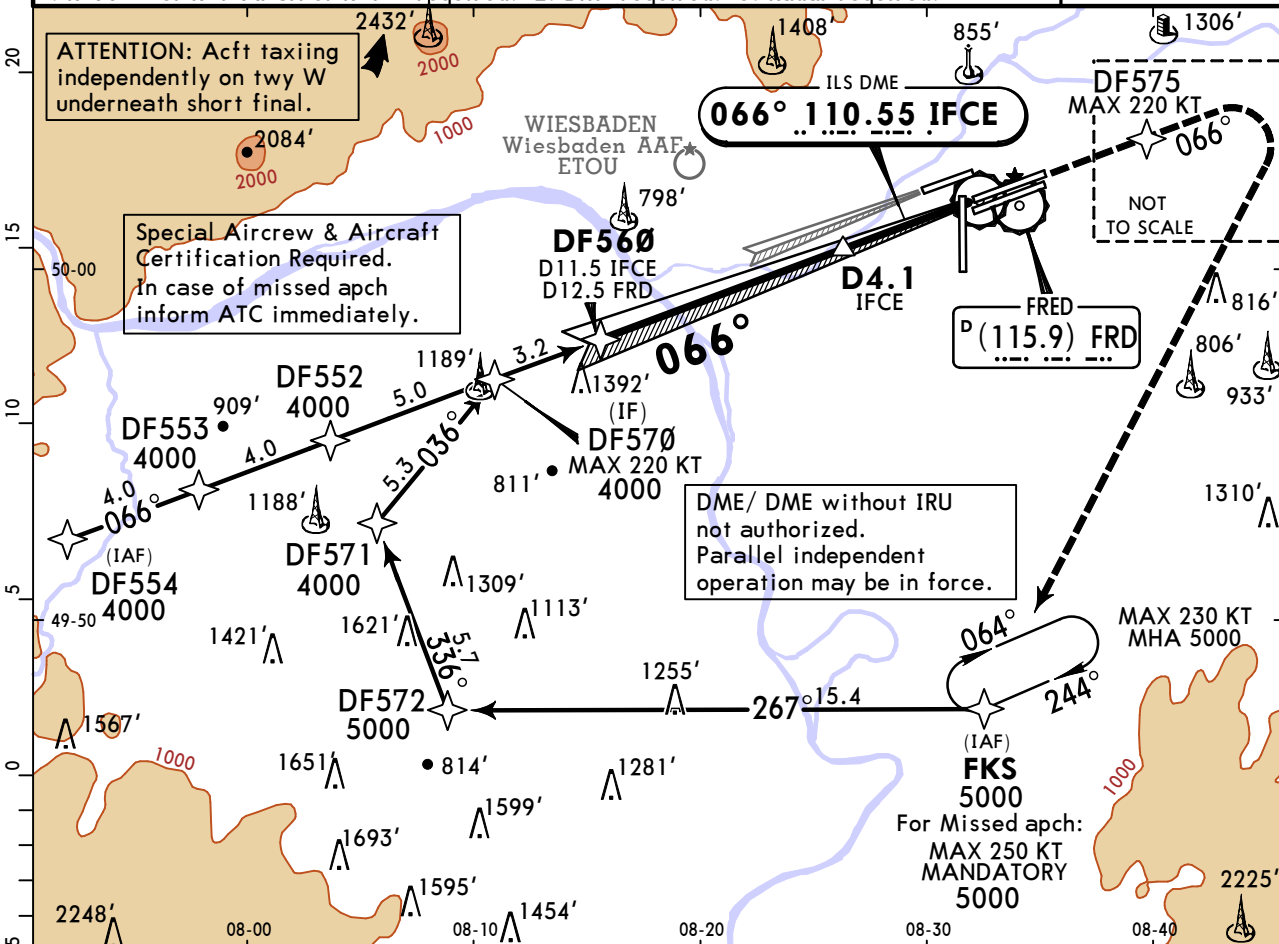
Std/State	STRAIGHT-IN LANDING ILS		
	DA(H) 528' (200')		
		TDZ or CL out	ALS out
A			
B	R550m	R550m	R1200m
C			
D			
<p> R750m when a Flight Director or Autopilot or HUDLS to DA is not used.</p>			

EDDF/FRA
FRANKFURT/MAIN

7 JUL 23
Eff 13 Jul 11-3A

JEPPESSEN FRANKFURT/MAIN, GERMANY
CAT II/III ILS Z Rwy 07C

D-ATIS Arrival	LANGEN Radar (APP) North	LANGEN Radar (APP) South	*FRANKFURT Director (APP)	FRANKFURT Tower	*Ground	
118.030	120.805	125.355	118.505 127.280	118.780 119.905	121.805	
LOC IFCE 110.55	Final Apch Crs 066°	DF560 4000' (3672')	CAT III ILS Refer to Minimums	CAT II ILS RA 102' DA(H) 428' (100')	Apt Elev 363' Rwy 328'	4300 MSA ARP
MISSED APCH: Direct to DF575 (MAX 220 KT), climb on course 066° to 5000', then turn RIGHT (MAX 220 KT) direct to FKS at 5000' (MAX 250 KT).						
Alt Set: hPa(IN on req) Rwy Elev: 12 hPa Trans level: By ATC Trans alt: 5000' 1. RNAV-1 or RNP APCH or RNP-1 required. 2. DME required. 3. Radar required.						



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	D →	DF575 220 KT MAX
GS	3.00°	372	478	531	637	849			

Std/State	STRAIGHT-IN LANDING	
CAT III ILS	CAT II ILS	
	RA 102' DA(H) 428' (100')	
R75m	R300m	

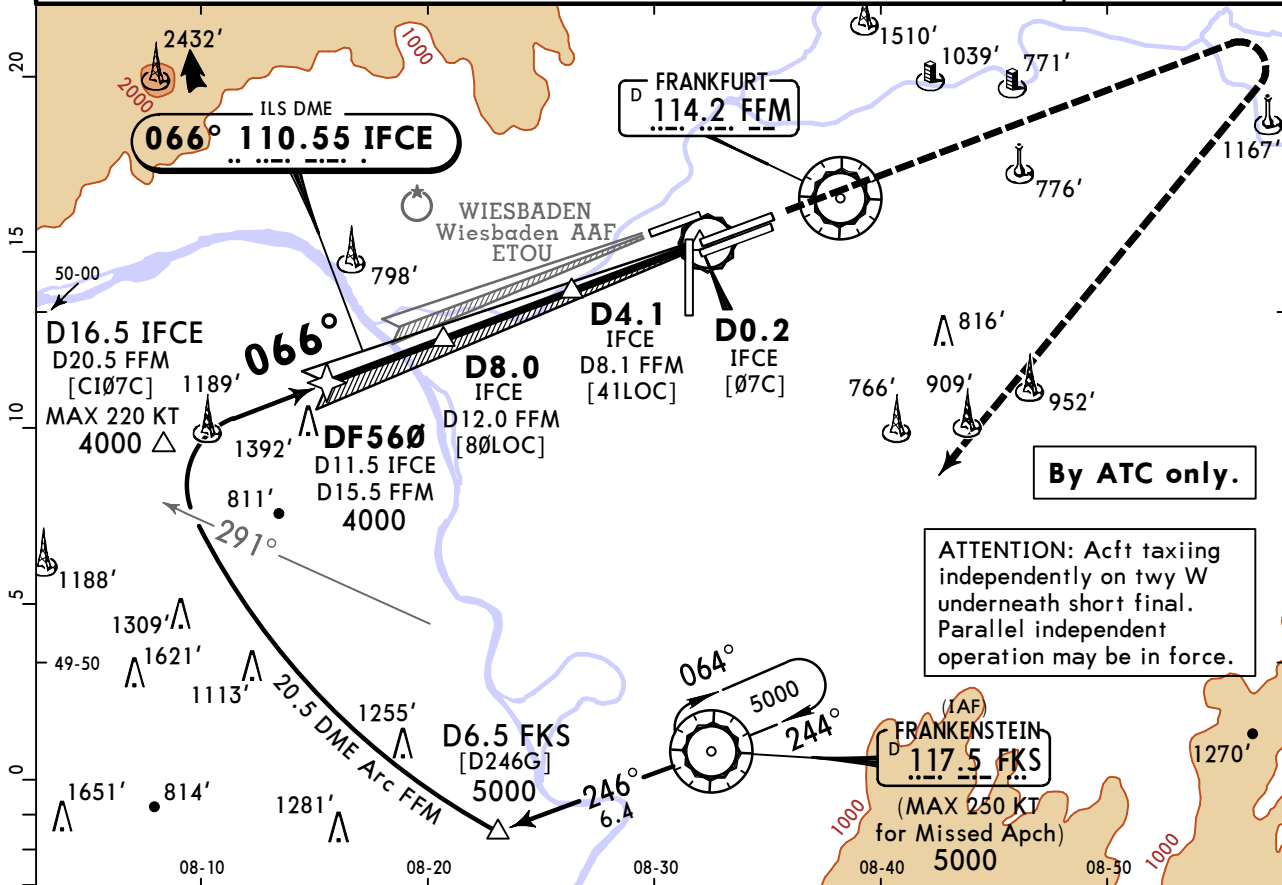
■ CAT D requires autoland or HUDLS, otherwise: R350m.

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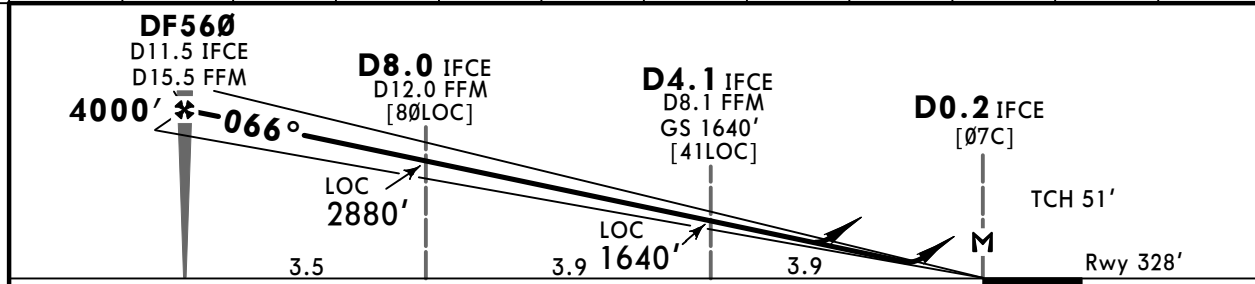
11 AUG 23 **(11-4)**

JEPPESSEN FRANKFURT/MAIN, GERMANY
ILS X or LOC Rwy 07C

D-ATIS Arrival	LANGEN Radar (APP) North South		*FRANKFURT Director (APP)		FRANKFURT Tower		*Ground
118.030	120.805	125.355	118.505	127.280	118.780	119.905	121.805
ILS IFCE 110.55	Final Apch Crs 066°	DF560 4000' (3672')		ILS DA(H) 528' (200')	Apt Elev 363' Rwy 328'		
MISSED APCH: Climb on Rwy direction, at 5000' turn RIGHT (MAX 220 KT), direct to FKS VOR at 5000' (MAX 250 KT).							
Alt Set: hPa (IN on req) Rwy Elev: 12 hPa Trans level: By ATC Trans alt: 5000'							MSA FKS VOR
1. DME required. 2. In case of missed apch inform ATC immediately.							



LOC	IFCE DME	11.0	10.0	9.0	8.0	7.0	6.0	5.0	4.0	3.0	2.0
(GS out)	ALTITUDE	3840'	3520'	3200'	2880'	2570'	2250'	1930'	1610'	1290'	970'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	5000'	MAX 220 KT	FKS 117.5
ILS GS or LOC Descent Angle	3.00°	372	478	531	637	849				
MAP at D0.2 IFCE										

PANS OPS	Std/State					STRAIGHT-IN LANDING				
	ILS					LOC (GS out) CDFA				
	DA(H) 528' (200')					DA/MDA(H) 850' (522')				
	TDZ or CL out		ALS out			TDZ or CL out		ALS out		
A	R550m					R1500m				
B	R550m	1 R550m	R1200m			R1700m				
C	R550m									
D						R550m				

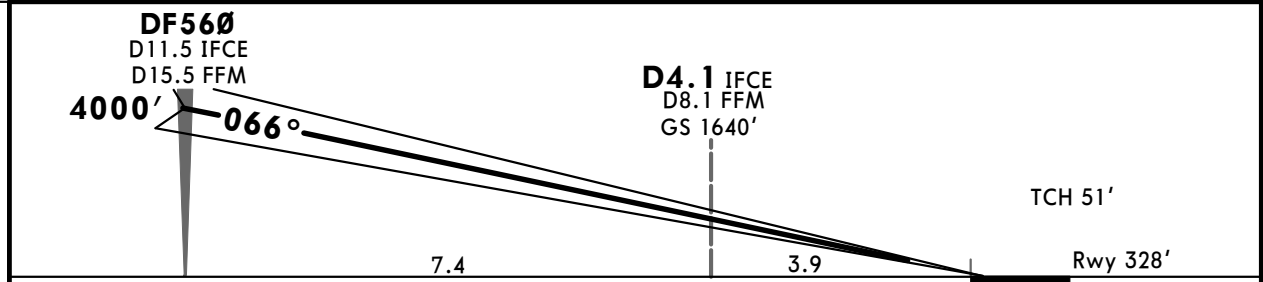
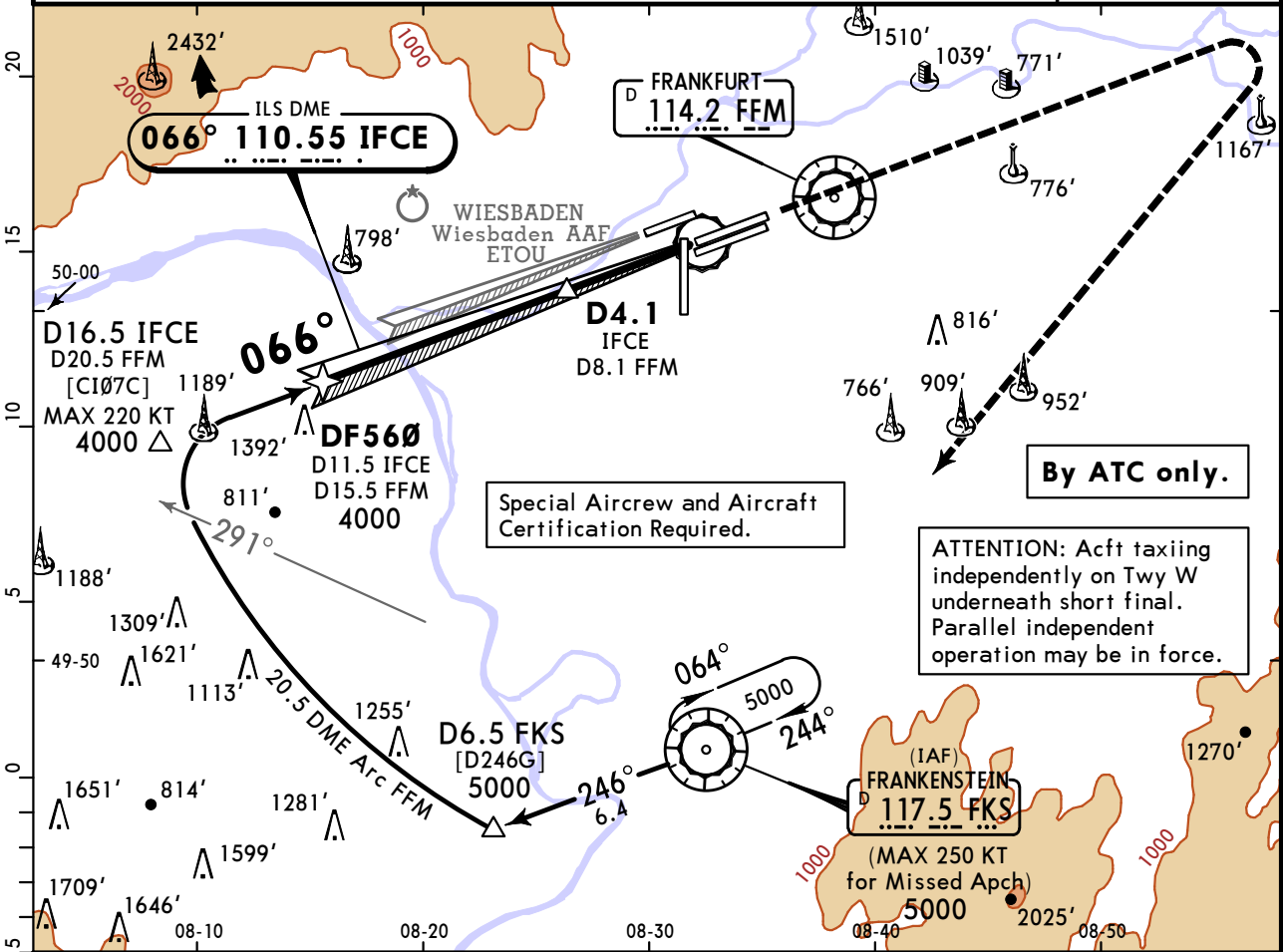
1 R750m when a Flight Director or Autopilot or HUDLS to DA is not used.
2 VNAV DA(H) in lieu of MDA(H) depends on operator policy.

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11 AUG 23 **(11-4A)**

JEPPESSEN FRANKFURT/MAIN, GERMANY
CAT II/III ILS X Rwy 07C

D-ATIS Arrival	LANGEN Radar (APP) North South		*FRANKFURT Director (APP)		FRANKFURT Tower		*Ground
118.030	120.805	125.355	118.505	127.280	118.780	119.905	121.805
ILS IFCE 110.55	Final Apch Crs 066°	DF560 4000' (3672')	CAT III ILS Refer to Minimums	CAT II ILS RA 102' DA(H) 428' (100')	Apt Elev 363' Rwy 328'		
MISSED APCH: Climb on Rwy direction, at 5000' turn RIGHT (MAX 220 KT), direct to FKS VOR at 5000' (MAX 250 KT). Alt Set: hPa (IN on req) Rwy Elev: 12 hPa Trans level: By ATC Trans alt: 5000' 1. DME required. 2. In case of missed apch inform ATC immediately.							
							MSA FKS VOR



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	5000' ↑	MAX 220 KT → RT	FKS 117.5
GS	3.00°	372	478	531	637	743				

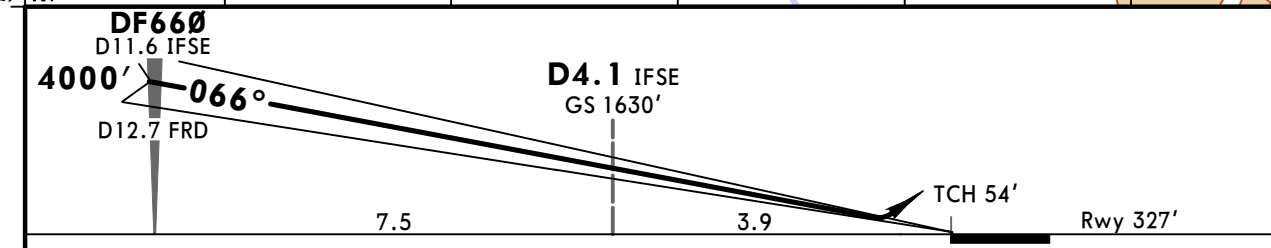
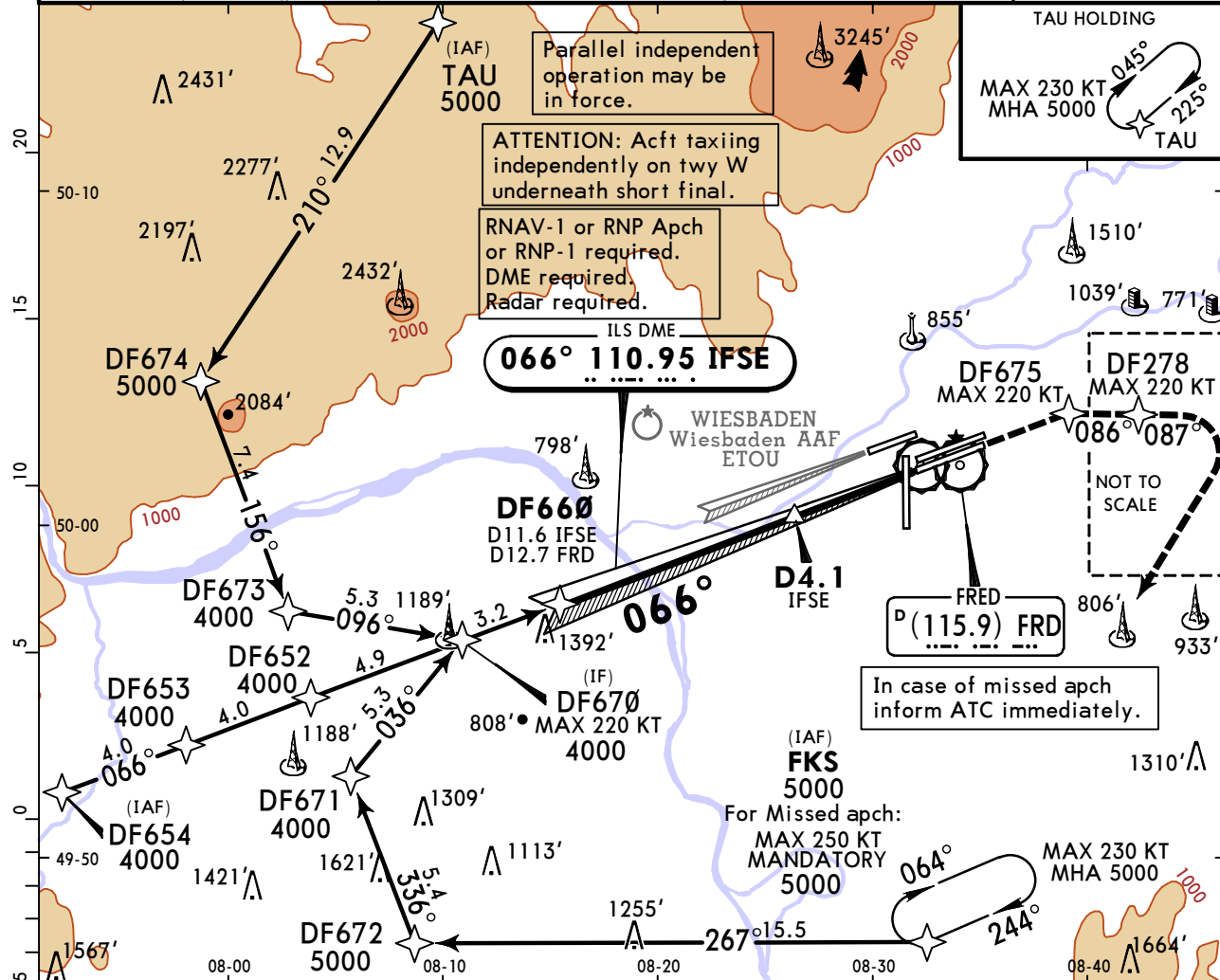
Std/State	STRAIGHT-IN LANDING	
CAT III ILS	CAT II ILS	
	RA 102' DA(H) 428' (100')	
R75m	R300m	
■ CAT D requires autoland or HUDLS, otherwise: R350m.		

EDDF/FRA FRANKFURT/MAIN

JEPPESSEN FRANKFURT/MAIN, GERMANY ILS Rwy 07R

7 JUL 23 (11-5) Eff 13 Jul

D-ATIS Arrival	LANGEN Radar (APP) North South		*FRANKFURT Director (APP)		FRANKFURT Tower	*Ground
118.030	120.805	125.355	118.505	127.280	118.780 119.905	121.805
LOC IFSE 110.95	Final Apch Crs 066°	DF660 4000' (3673')	ILS DA(H) 527' (200')	Apt Elev 363' Rwy 327'	4300 MSA ARP	
MISSED APCH: Direct to DF675 (MAX 220 KT), then to DF278 (MAX 220 KT). Climb on course 087° to 5000', then turn RIGHT (MAX 220 KT) direct to FKS at 5000' (MAX 250 KT).						
Alt Set: hPa(IN on req) Rwy Elev: 12 hPa Trans level: By ATC Trans alt: 5000'						



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	D →	DF675	220 KT MAX
GS	3.00°	372	478	531	637	849				

Std/State			STRAIGHT-IN LANDING ILS		
DA(H) 527' (200')			TDZ or CL out		
ALS out					
A	R550m	■ R550m	R1200m		
B					
C					
D					

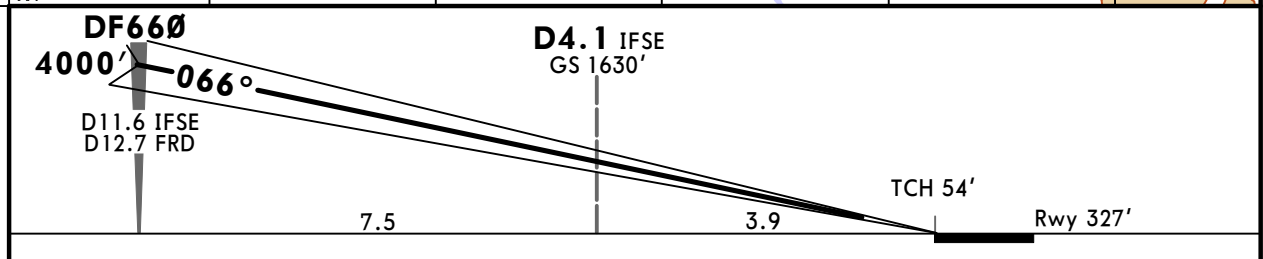
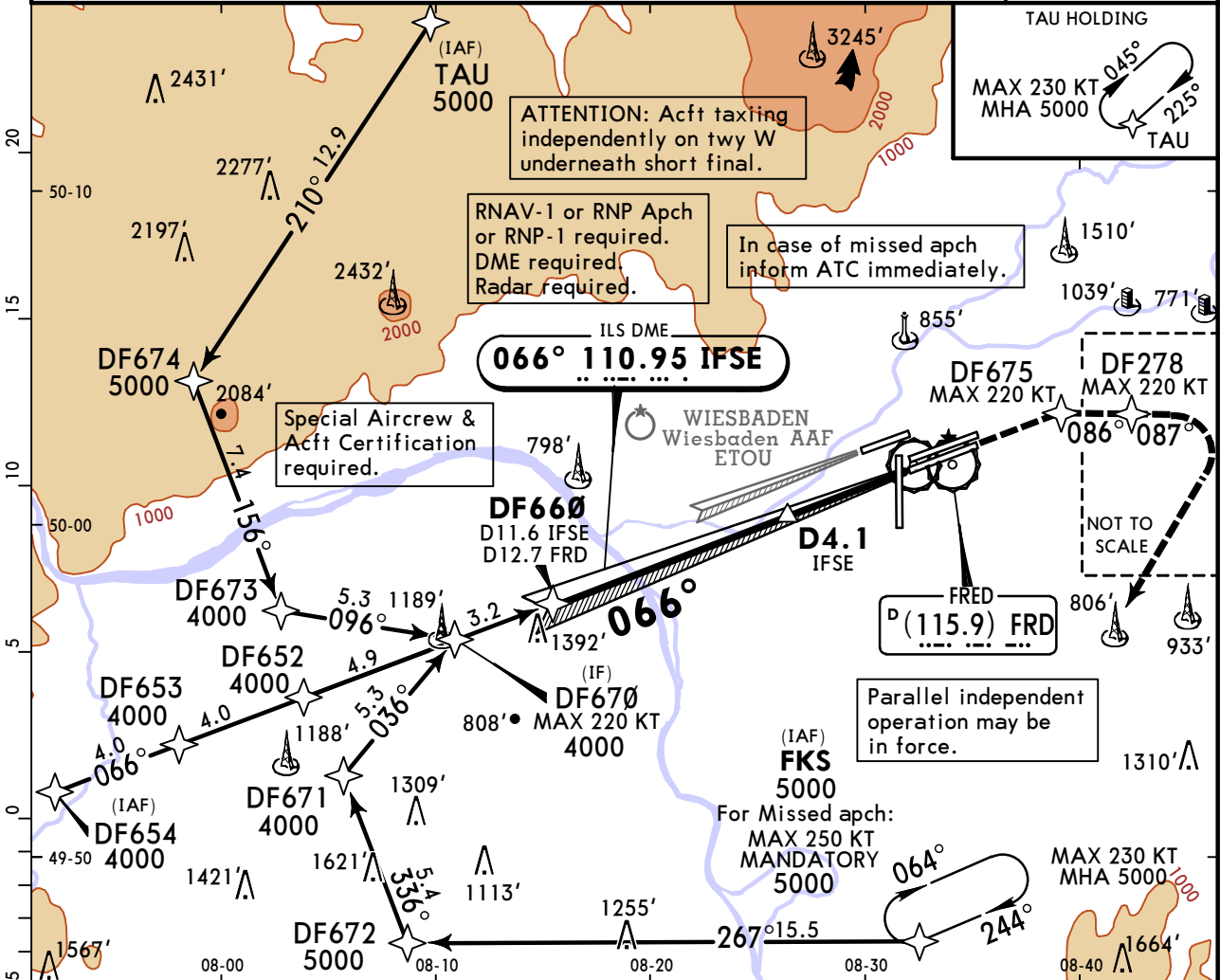
■ R750m when a Flight Director or Autopilot or HUDLS to DA is not used.
 CHANGES: Chart reindexed, procedure, missed apch, MSA, minimums. © JEPPESSEN, 1999, 2023. ALL RIGHTS RESERVED.

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7 JUL 23
Eff 13 Jul (11-5A)

JEPPESSEN FRANKFURT/MAIN, GERMANY
CAT II/III ILS Rwy 07R

D-ATIS Arrival 118.030	LANGEN Radar (APP) North 120.805	South 125.355	*FRANKFURT Director (APP) 118.505	127.280	FRANKFURT Tower 118.780	119.905	*Ground 121.805
LOC IFSE 110.95	Final Apch Crs 066°	DF660 4000' (3673')	CAT III ILS Refer to Minimums	CAT II ILS RA 101' DA(H) 427' (100')	Apt Elev 363'	Rwy 327'	4300 MSA ARP
MISSED APCH: Direct to DF675 (MAX 220 KT), then to DF278 (MAX 220 KT). Climb on course 087° to 5000', then turn RIGHT (MAX 220 KT) direct to FKS at 5000' (MAX 250 KT). Alt Set: hPa(IN on req) Rwy Elev: 12 hPa Trans level: By ATC Trans alt: 5000'							



ALS-F-II	REIL	PAPI	D	DF675	220 KT MAX
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Std/State	CAT III ILS	STRAIGHT-IN LANDING	CAT II ILS
			RA 101' DA(H) 427' (100')

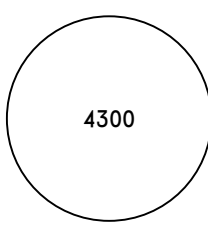
R75m	R300m
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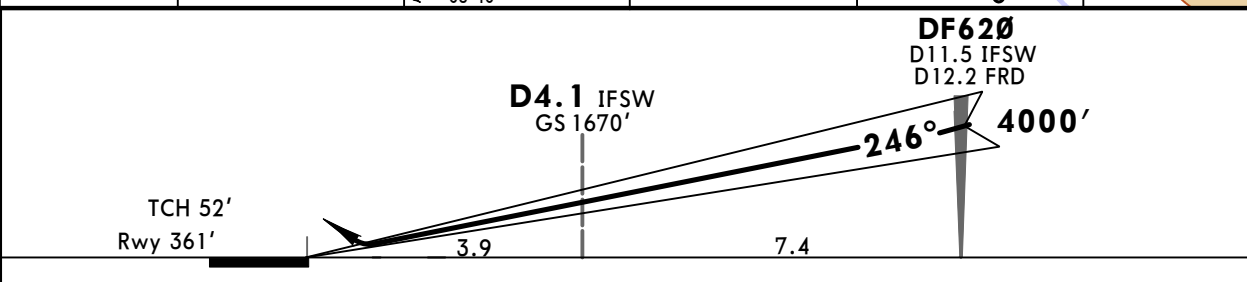
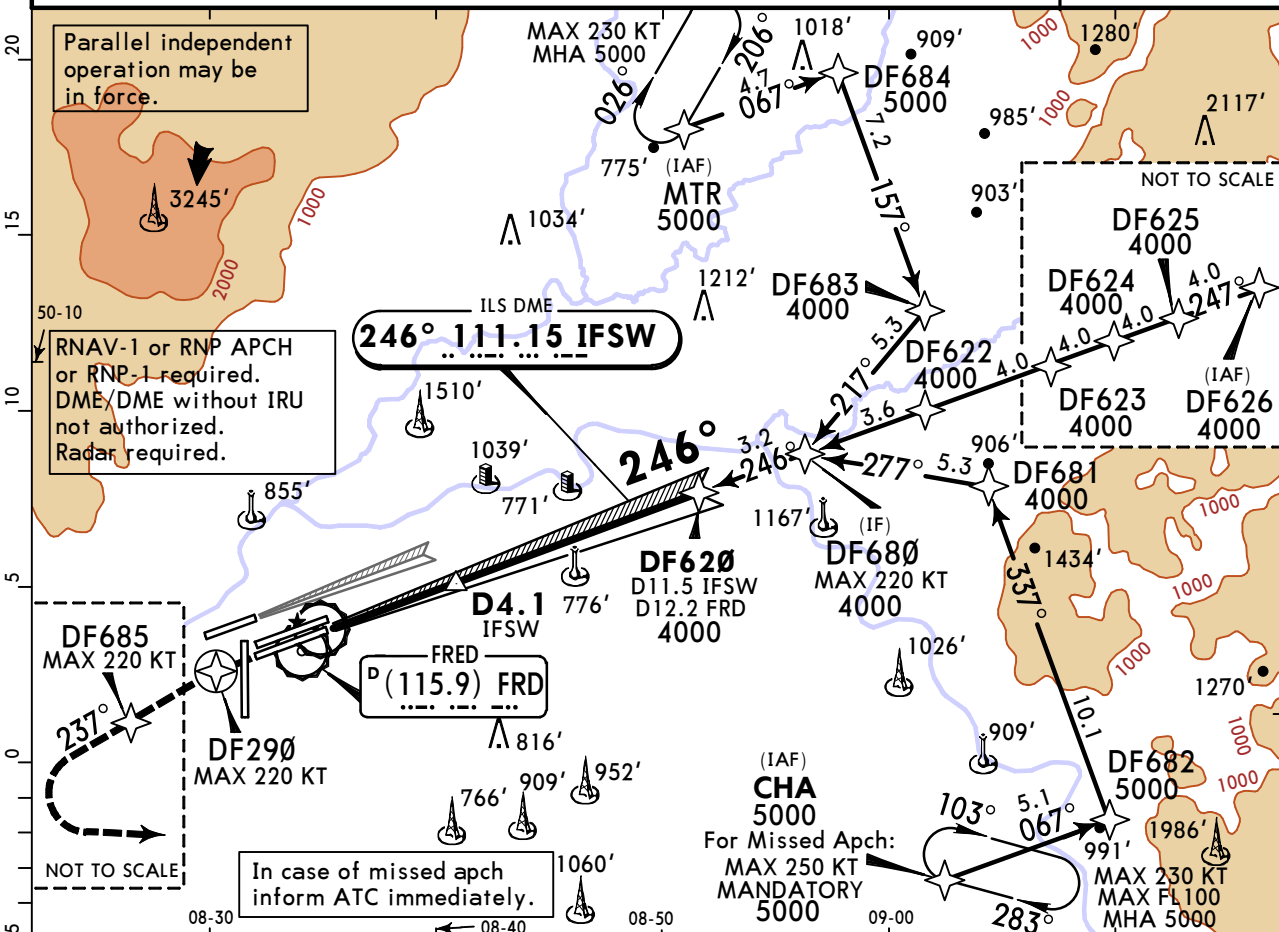
■ CAT D requires autoland or HUDLS, otherwise: R350m.
 CHANGES: Chart reindexed, procedure, missed apch, MSA, minimums. © JEPPESSEN, 1999, 2023. ALL RIGHTS RESERVED.


EDDF/FRA FRANKFURT/MAIN

JEPPESSEN FRANKFURT/MAIN, GERMANY ILS Rwy 25L

7 JUL 23 **11-6** Eff 13 Jul

D-ATIS Arrival 118.030	LANGEN Radar (APP) North 120.805	South 125.355	*FRANKFURT Director (APP) 118.505 127.280	FRANKFURT Tower 118.780 119.905	*Ground 121.805
LOC IFSW 111.15	Final Apch Crs 246°	DF620 4000' (3639')	ILS DA(H) 561' (200')	Apt Elev 363' Rwy 361'	 4300 MSA ARP
MISSED APCH: Direct to DF290 (MAX 220 KT), then direct to DF685 (MAX 220 KT). Climb on course 237° to 5000', then turn LEFT (MAX 220 KT) direct to CHA at 5000' (MAX 250 KT).					
Alt Set: hPa (IN on req) Rwy Elev: 13 hPa Trans level: By ATC Trans alt: 5000'					
1. DME required. 2. ATTENTION: Acft taxiing independently on Twy U underneath short final.					



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI 
GS	3.00°	372	478	531	637	743	

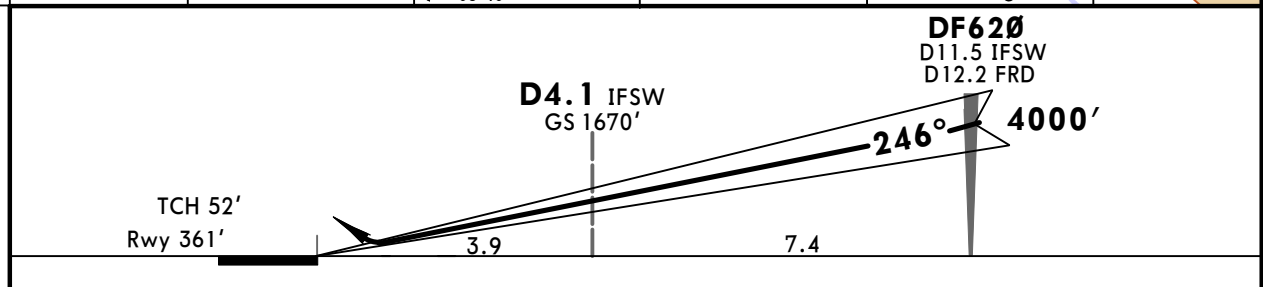
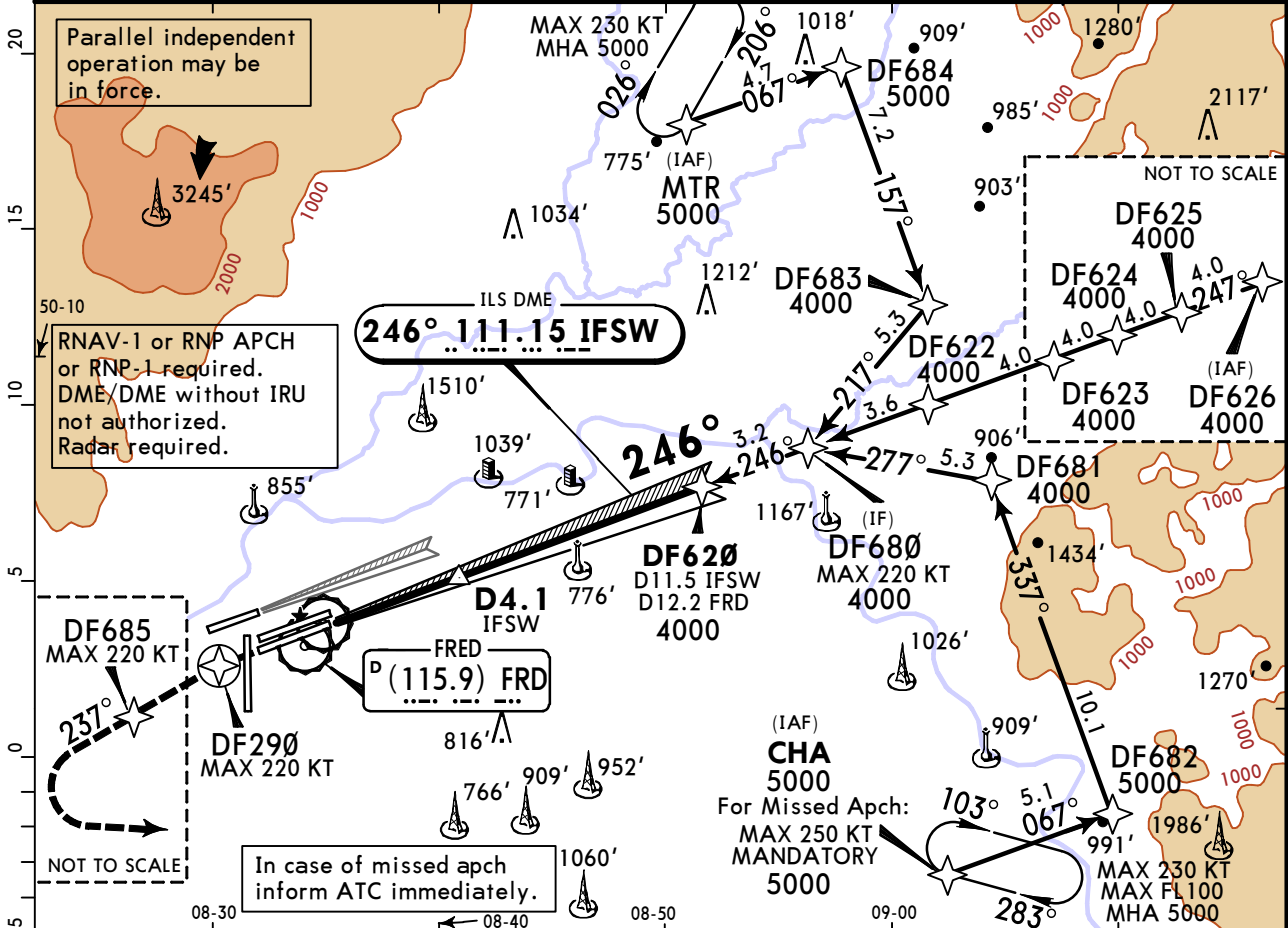
Std/State			STRAIGHT-IN LANDING		
ILS			DA(H) 561' (200')		
TDZ or CL out		ALS out			
A	R550m	R550m	R1200m		
B					
C					
D					

DL: DA(H) 588' (227'). **R750m** when a Flight Director or Autopilot or HUDLS to DA is not used.

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FRANKFURT/MAIN

JEPPESSEN FRANKFURT/MAIN, GERMANY
7 JUL 23 **11-6A** **Eff 13 Jul** **CAT II/III ILS Rwy 25L**

D-ATIS Arrival 118.030	LANGEN Radar (APP) North 120.805	South 125.355	*FRANKFURT Director (APP) 118.505	127.280	FRANKFURT Tower 118.780	119.905	*Ground 121.805
LOC IFSW 111.15	Final Apch Crs 246°	DF620 4000' (3639')	CAT III ILS Refer to Minimums	CAT II ILS RA 95' DA(H) 461' (100')	Apt Elev 363'	Rwy 361'	<p>4300</p> <p>MSA ARP</p>
MISSED APCH: Direct to DF290 (MAX 220 KT), then direct to DF685 (MAX 220 KT). Climb on course 237° to 5000', then turn LEFT (MAX 220 KT) direct to CHA at 5000' (MAX 250 KT).							
Alt Set: hPa(IN on req) Rwy Elev: 13 hPa Trans level: By ATC Trans alt: 5000'							
1. DME required. 2. ATTENTION: Acft taxiing independently on Twy U underneath short final. 3. Special Aircrew & Acft Certification Required.							



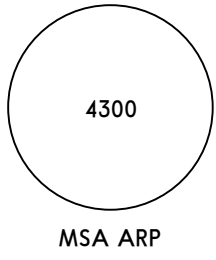
Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI		DF290 220 KT MAX
GS	3.00°	372	478	531	637	743			

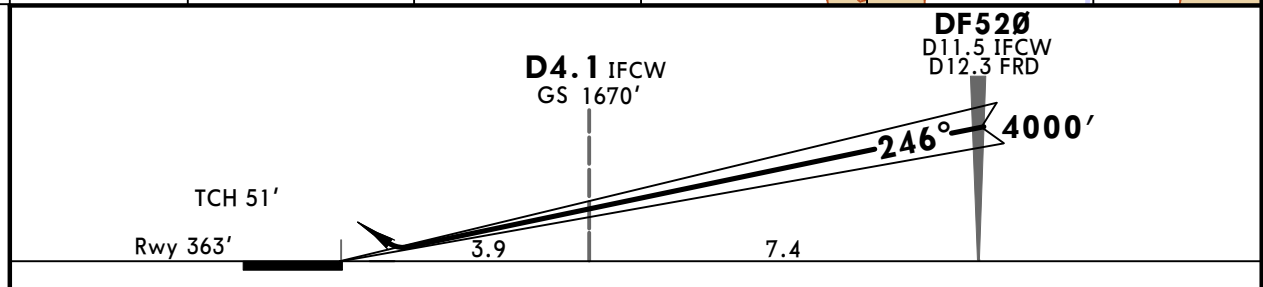
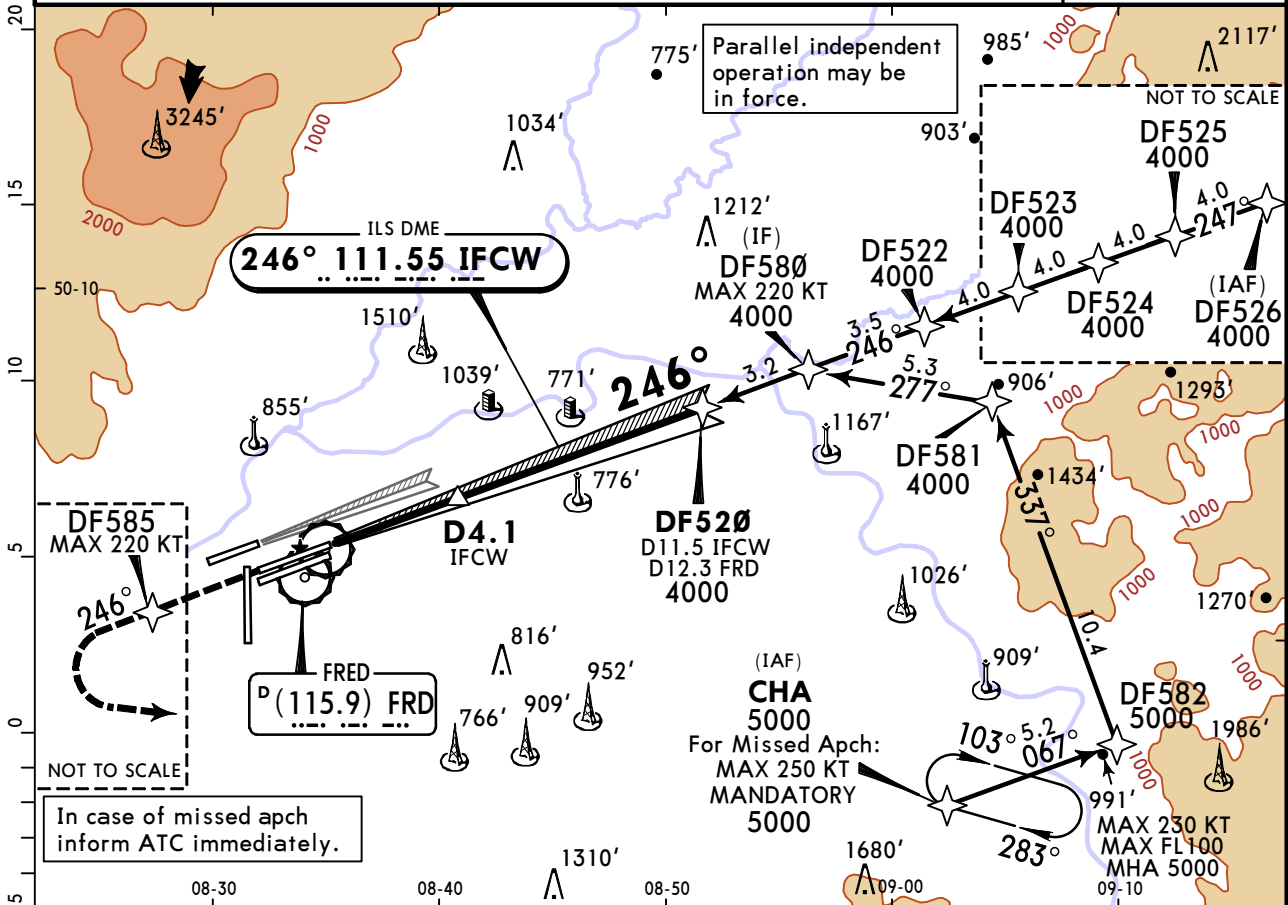
Std/State	STRAIGHT-IN LANDING	
CAT III ILS	CAT II ILS	
	RA 95' DA(H) 461' (100')	
R75m	R300m	


■ CAT D requires autoland or HUDLS, otherwise: R350m.
 CHANGES: Chart reindexed, procedure, MSA, missed apch. © JEPPESSEN, 1999, 2023. ALL RIGHTS RESERVED.

EDDF/FRA
FRANKFURT/MAIN

JEPPesen FRANKFURT/MAIN, GERMANY
7 JUL 23 **11-7** **Eff 13 Jul**
ILS Z Rwy 25C

D-ATIS Arrival 118.030	LANGEN Radar (APP) North 120.805	South 125.355	*FRANKFURT Director (APP) 118.505 127.280	FRANKFURT Tower 118.780 119.905	*Ground 121.805
LOC IFCW 111.55	Final Apch Crs 246°	DF520 4000' (3637')	ILS DA(H) 563' (200')	Apt Elev 363' Rwy 363'	
MISSED APCH: Direct to DF585 (MAX 220 KT), then climb on course 246° to 5000', then turn LEFT (MAX 220 KT) direct to CHA at 5000' (MAX 250 KT).					
Alt Set: hPa (IN on req) Rwy Elev: 13 hPa Trans level: By ATC Trans alt: 5000' 1. DME required. 2. RNAV-1 or RNP APCH or RNP-1 required. 3. DME/DME without IRU not authorized. 4. Radar required. 5. ATTENTION: Acft taxiing independently on Twy U underneath short final.					



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI		DF585	220 KT MAX
GS	3.00°	372	478	531	637	743				

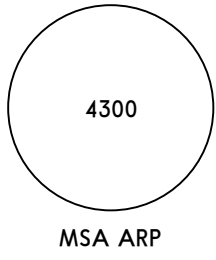
Std/State			STRAIGHT-IN LANDING		
ILS					
DA(H) 563' (200')					
TDZ or CL out			ALS out		
A	R550m		■ R550m		R1200m
B					
C					
D					
PANS OPS ■ R750m when a Flight Director or Autopilot or HUDLS to DA is not used.					

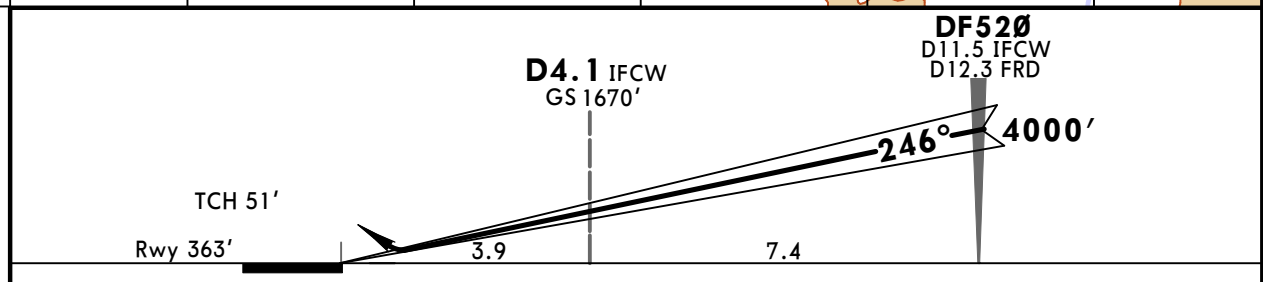
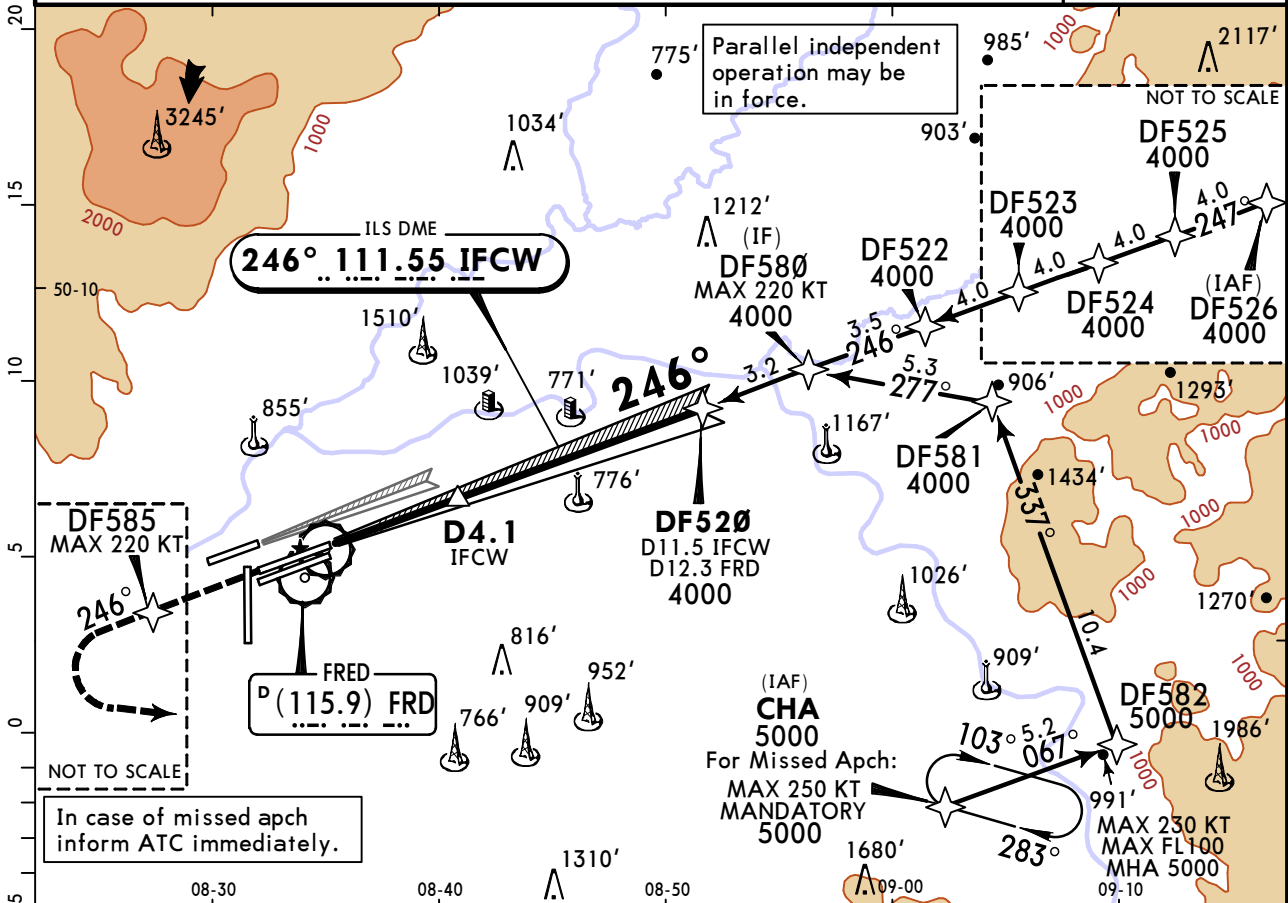
EDDF/FRA FRANKFURT/MAIN


JEPPESEN FRANKFURT/MAIN, GERMANY

CAT II/III ILS Z Rwy 25C

7 JUL 23
 Eff 13 Jul 11-7A

D-ATIS Arrival 118.030	LANGEN Radar (APP) North 120.805	South 125.355	*FRANKFURT Director (APP) 118.505	127.280	FRANKFURT Tower 118.780	119.905	*Ground 121.805
LOC IFCW 111.55	Final Apch Crs 246°	DF520 4000' (3637')	CAT III ILS Refer to Minimums	CAT II ILS RA 98' DA(H) 463' (100')	Apt Elev 363'	Rwy 363'	 <p>4300 MSA ARP</p>
MISSED APCH: Direct to DF585 (MAX 220 KT), then climb on course 246° to 5000', then turn LEFT (MAX 220 KT) direct to CHA at 5000' (MAX 250 KT).							
Alt Set: hPa (IN on req) Rwy Elev: 13 hPa Trans level: By ATC Trans alt: 5000' 1. DME required. 2. RNAV-1 or RNP APCH or RNP-1 required. 3. DME/DME without IRU not authorized. 4. Radar required. 5. ATTENTION: Acft taxiing independently on Twy U underneath short final. 6. Special Aircrew & Acft Certification Required.							



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	 DF585	220 KT MAX
GS	3.00°	372	478	531	637	743			

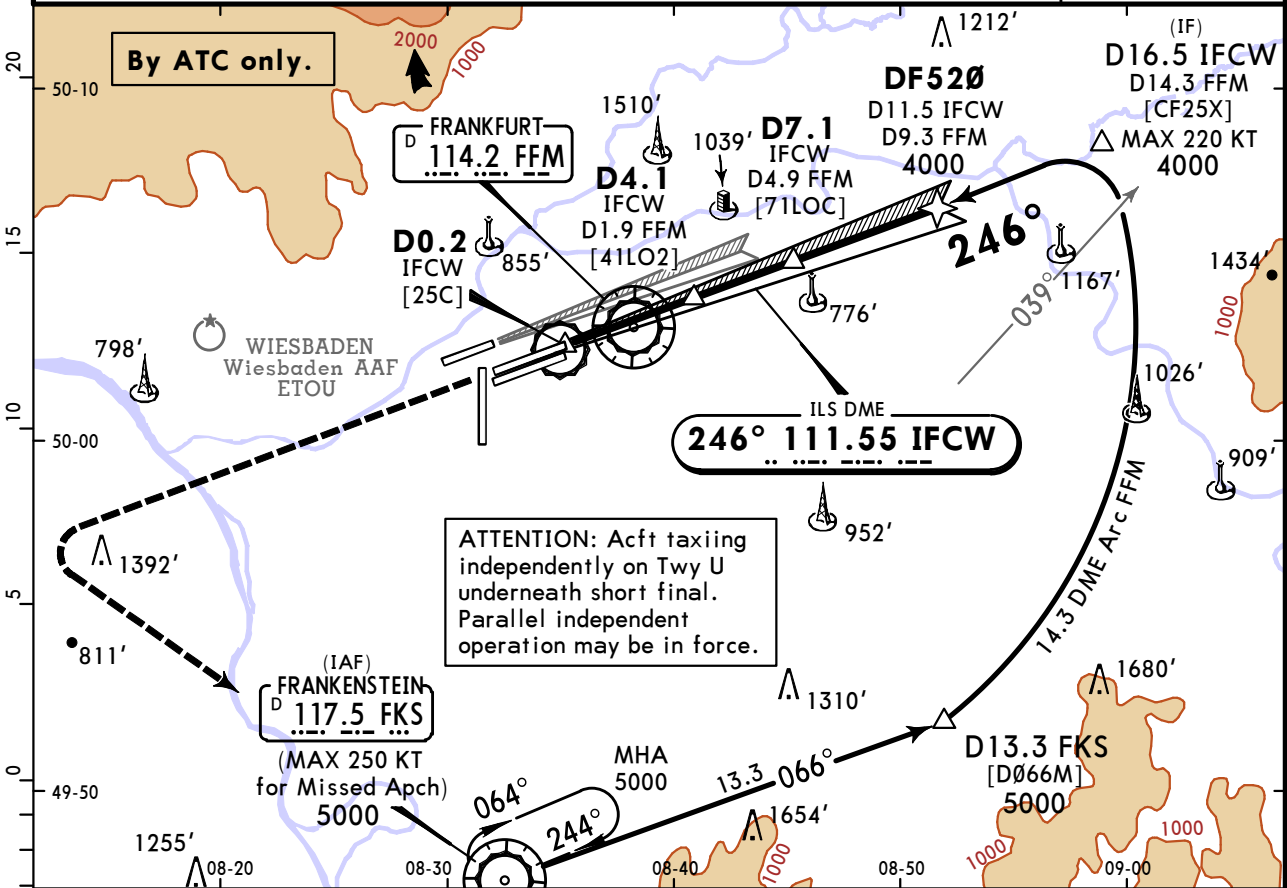
Std/State	STRAIGHT-IN LANDING	
CAT III ILS	CAT II ILS	
	RA 98'	
	DA(H) 463' (100')	
R75m	R300m	
☐ CAT D requires autoland or HUDLS, otherwise: R350m.		

EDDF/FRA FRANKFURT/MAIN

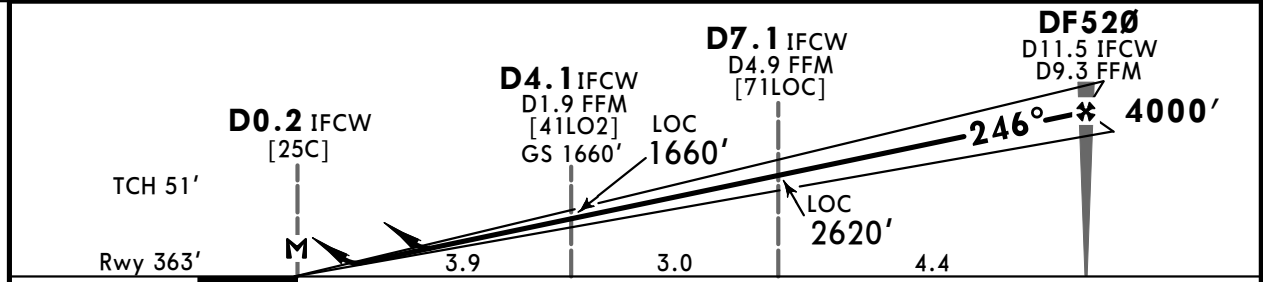
10 NOV 23 **(11-8)**

JEPPESSEN FRANKFURT/MAIN, GERMANY ILS X or LOC Rwy 25C

D-ATIS Arrival	LANGEN Radar (APP) North South		*FRANKFURT Director (APP)		FRANKFURT Tower		*Ground
118.030	120.805	125.355	118.505	127.280	118.780	119.905	121.805
ILS IFCW 111.55	Final Apch Crs 246°	DF520 4000' (3637')		ILS DA(H) 563' (200')	Apt Elev 363' Rwy 363'		
MISSED APCH: Climb on Rwy direction, at 5000' turn LEFT (MAX 220 KT), direct to FKS VOR at 5000' (MAX 250 KT). Alt Set: hPa (IN on req) Rwy Elev: 13 hPa Trans level: By ATC Trans alt: 5000' 1. DME required. 2. In case of missed apch inform ATC immediately.							



LOC (GS out)	IFCW DME	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0
	ALTITUDE	1000'	1310'	1630'	1950'	2270'	2590'	2910'	3230'	3540'	3860'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI 	5000' ↑	MAX 220 KT ← LT	FKS 117.5
ILS GS or LOC Descent Angle	3.00°	372	478	531	637	743				

Std/State	ILS				LOC (GS out) CDFA	
	DA(H) 563' (200')				DA/MDA(H) 840' (477')	
	TDZ or CL out	ALS out		TDZ or CL out	ALS out	
A						
B	R550m	1 R550m	R1200m	R1500m	R1500m	
C					R2200m	
D						

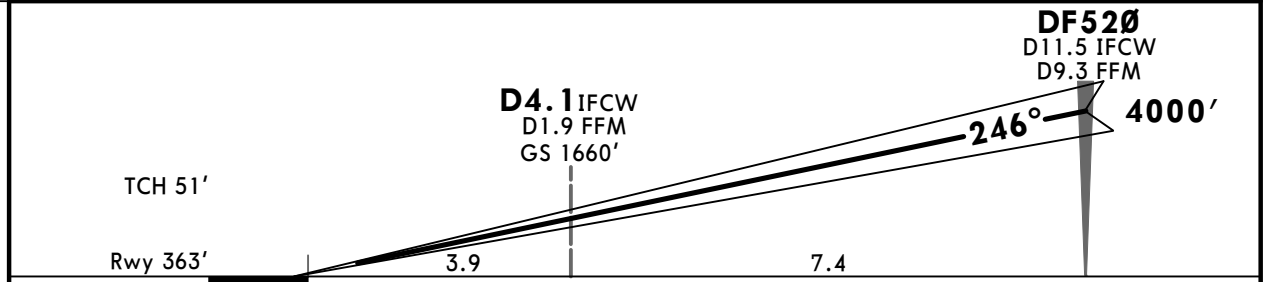
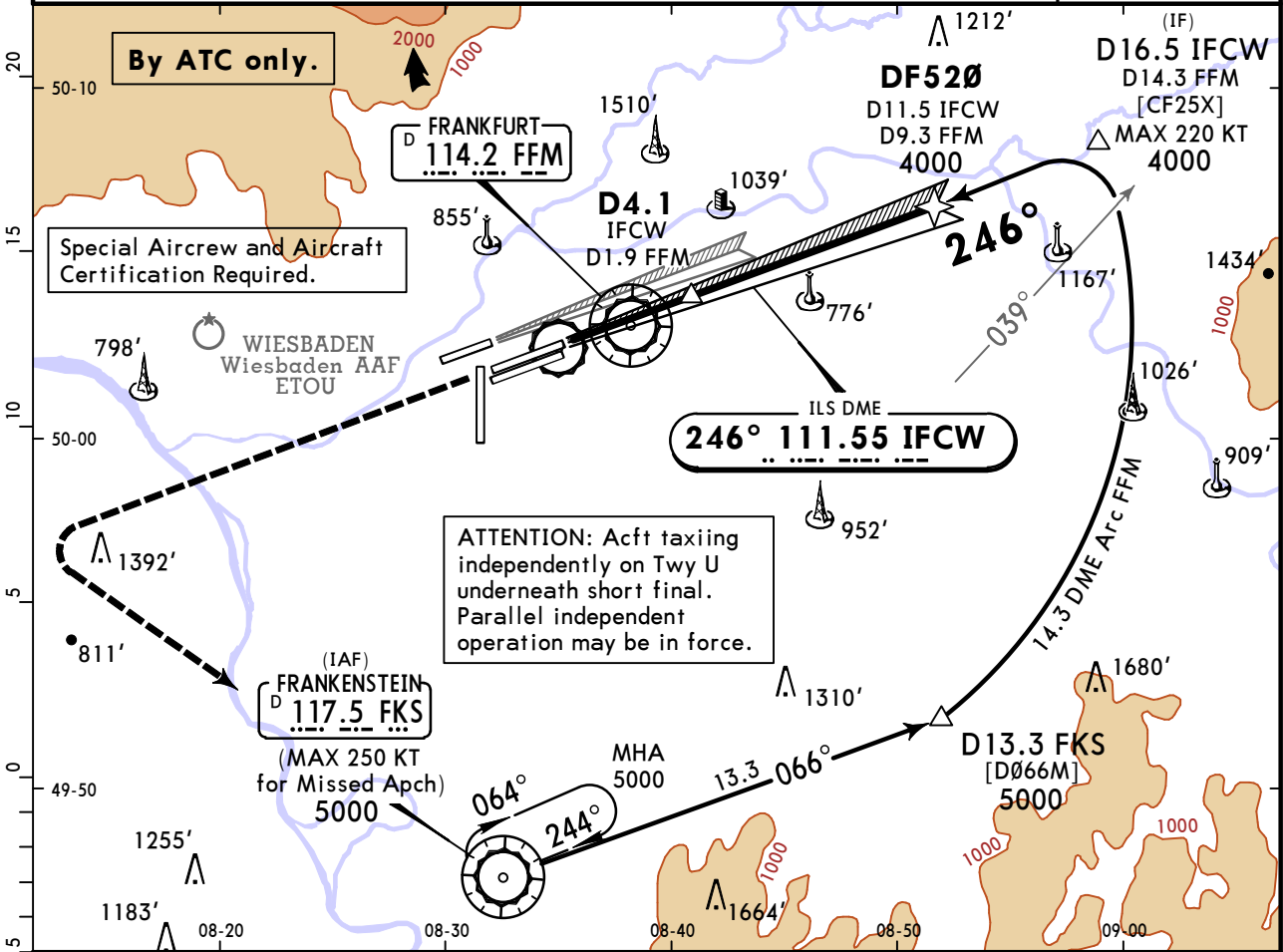
1 R750m when a Flight Director or Autopilot or HUDLS to DA is not used.
2 VNAV DA(H) in lieu of MDA(H) depends on operator policy.
 CHANGES: IF added. © JEPPESSEN, 2023. ALL RIGHTS RESERVED.

EDDF/FRA
FRANKFURT/MAIN

10 NOV 23 **(11-8A)**

JEPPESSEN FRANKFURT/MAIN, GERMANY
CAT II/III ILS X Rwy 25C

D-ATIS Arrival 118.030	LANGEN Radar (APP) North South 120.805 125.355	*FRANKFURT Director (APP) 118.505 127.280	FRANKFURT Tower 118.780 119.905	*Ground 121.805
ILS IFCW 111.55	Final Apch Crs 246°	DF520 4000' (3637')	CAT III ILS Refer to Minimums	CAT II ILS RA 98' DA(H) 463' (100')
MISSED APCH: Climb on Rwy direction, at 5000' turn LEFT (MAX 220 KT), direct to FKS VOR at 5000' (MAX 250 KT).				
Alt Set: hPa (IN on req) Rwy Elev: 13 hPa Trans level: By ATC Trans alt: 5000'				
1. DME required. 2. In case of missed apch inform ATC immediately.				



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	5000' ↑	MAX 220 KT ← LT	FKS 117.5
GS	3.00°	372	478	531	637	743				

Std/State	STRAIGHT-IN LANDING	
CAT III ILS	CAT II ILS	
	RA 98' DA(H) 463' (100')	
R75m	R300m	
CAT D requires autoland or HUDLS, otherwise: R350m.		

EDDF/FRA
FRANKFURT/MAIN

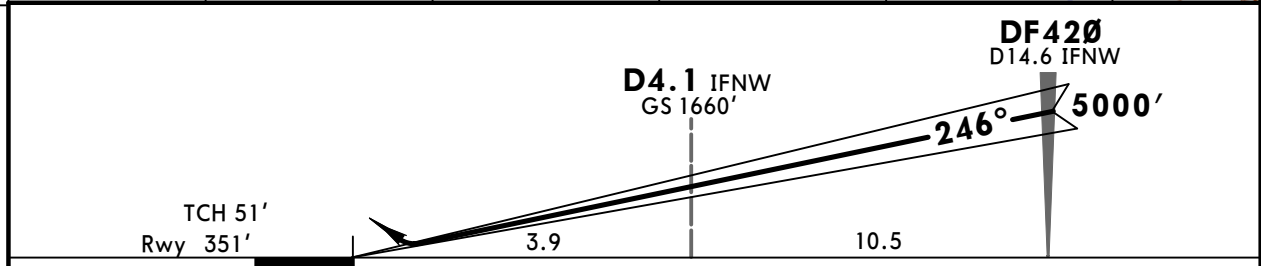
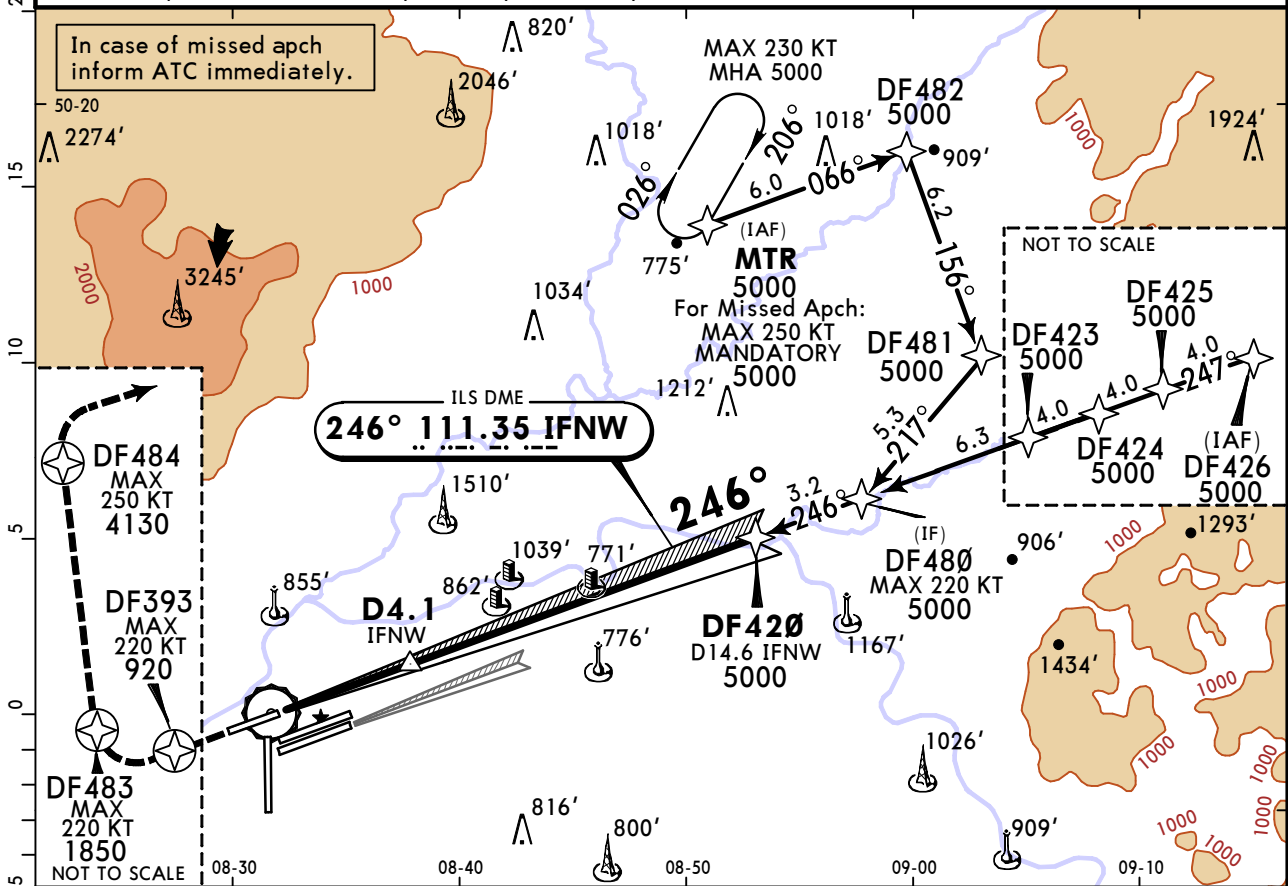
18 AUG 23 **(11-9)**

JEPPESSEN FRANKFURT/MAIN, GERMANY
ILS Z Rwy 25R

D-ATIS Arrival	LANGEN Radar (APP) North	LANGEN Radar (APP) South	*FRANKFURT Director (APP)		*FRANKFURT Tower	*Ground
118.030	120.805	125.355	118.505	127.280	136.5	121.805
LOC IFNW 111.35	Final Apch Crs 246°	DF420 5000' (4649')	DA(H) Refer to Minimums	Apt Elev 363' Rwy 351'	4300 MSA ARP	
MISSED APCH: Direct to DF393 at or above 920' (MAX 220 KT), turn RIGHT direct to DF483 at or above 1850' (MAX 220 KT), turn RIGHT direct to DF484 at or above 4130' (MAX 250 KT), turn RIGHT direct to MTR at 5000'. Missed apch requires a min climb of 4.3% (261'/NM) to 4130'.						

Alt Set: hPa (IN on req) Rwy Elev: 13 hPa Trans level: By ATC Trans alt: 5000'

1. DME required.
2. RNAV-1 or RNP APCH or RNP-1 required.
3. DME/DME without IRU not authorized.
4. Radar required.
5. Parallel independent operation may be in force.



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	➔ DF393	MIM 920'	220 KT MAX
GS	3.00°	372	478	531	637	743				

Std/State			STRAIGHT-IN LANDING		
ILS					
DA(H) ABC: 551' (200') D: 558' (207')					
		TDZ or CL out		ALS out	
A	R550m		R550m		R1200m
B					
C					
D					
R750m when a Flight Director or Autopilot or HUDLS to DA is not used.					

EDDF/FRA FRANKFURT/MAIN

18 AUG 23

11-9A

JEPPESSEN FRANKFURT/MAIN, GERMANY CAT II/III ILS Z Rwy 25R

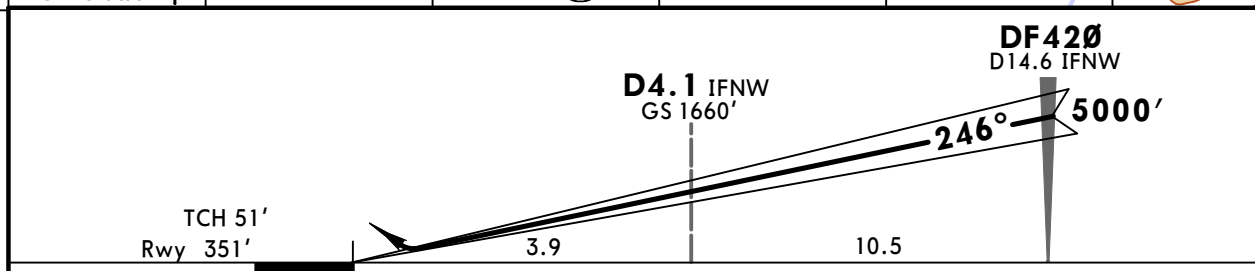
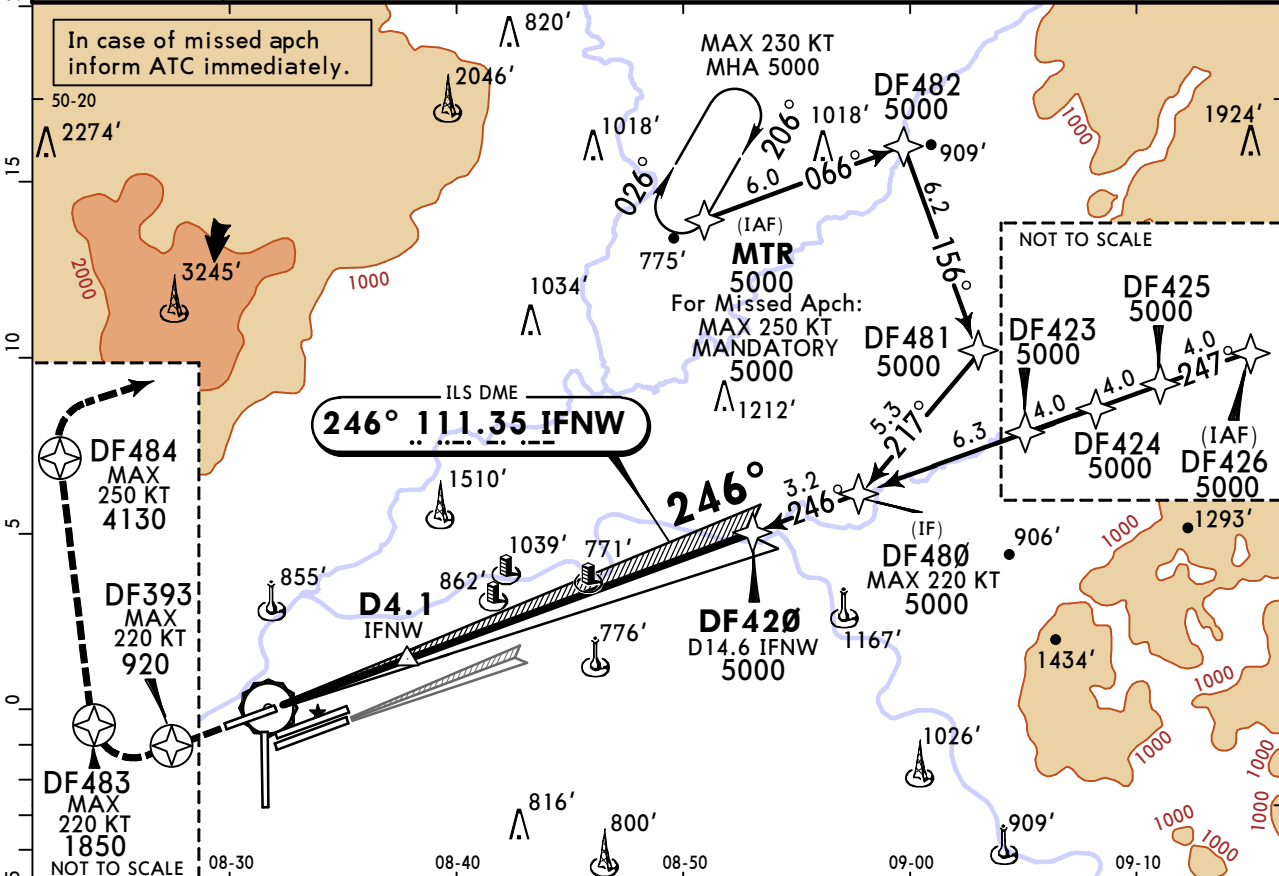
D-ATIS Arrival	LANGEN Radar (APP) North South		*FRANKFURT Director (APP)		*FRANKFURT Tower	*Ground
118.030	120.805	125.355	118.505	127.280	136.5	121.805

LOC IFNW 111.35	Final Apch Crs 246°	DF420 5000' (4649')	CAT III ILS Refer to Minimums	CAT II ILS Refer to Minimums	Apt Elev 363' Rwy 351'	4300 MSA ARP
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MISSED APCH: Direct to DF393 at or above 920' (MAX 220 KT), turn RIGHT direct to DF483 at or above 1850' (MAX 220 KT), turn RIGHT direct to DF484 at or above 4130' (MAX 250 KT), turn RIGHT direct to MTR at 5000'.
Missed apch requires a min climb of 4.3% (261'/NM) to 4130'.

Alt Set: hPa (IN on req) Rwy Elev: 13 hPa Trans level: By ATC Trans alt: 5000'

1. DME required.
2. RNAV-1 or RNP APCH or RNP-1 required.
3. DME/DME without IRU not authorized.
4. Radar required.
5. Parallel independent operation may be in force.
6. Special Aircrew & Acft Certification Required.



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	D → DF393	MIM 920'	220 KT MAX
GS	3.00°	372	478	531	637	743				

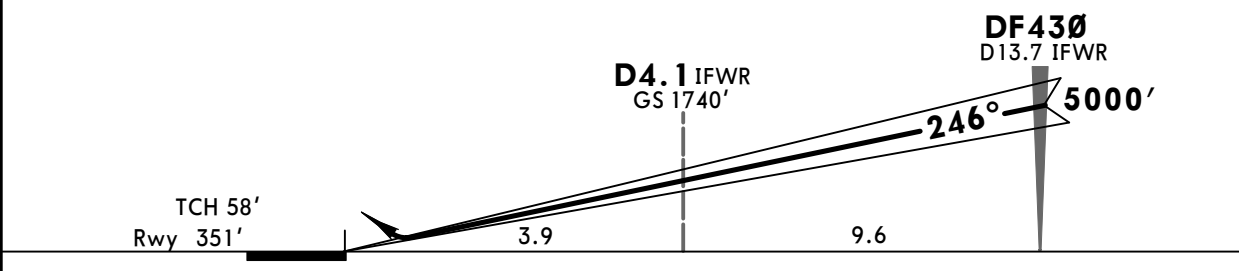
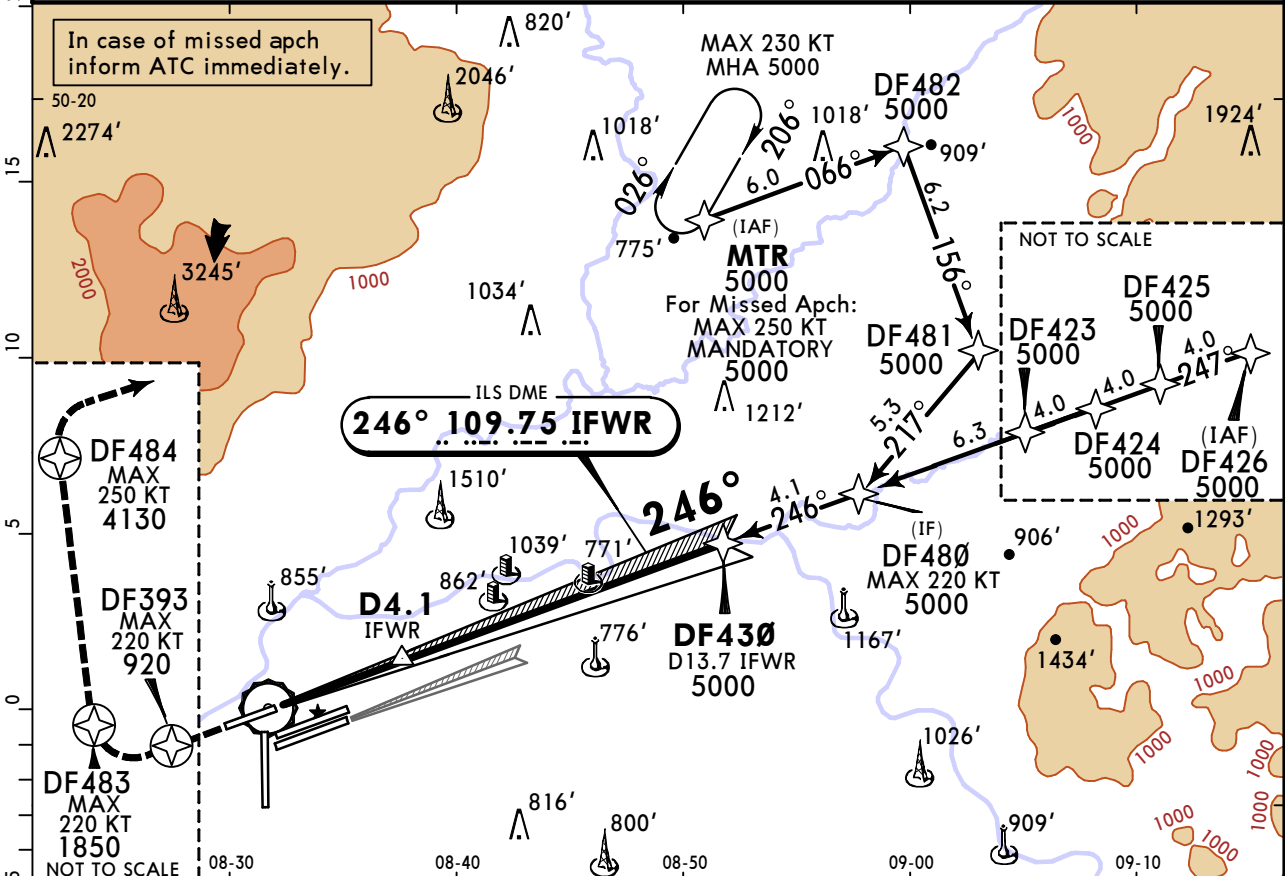
Std/State			STRAIGHT-IN LANDING		
CAT III ILS		CAT II ILS			
A: RA 103' DA(H) 451'(100')		D: RA 145' DA(H) 483'(132')			
B: RA 109' DA(H) 457'(106')					
C: RA 121' DA(H) 468'(117')					
R75m		R300m		R400m	

EDDF/FRA FRANKFURT/MAIN

22 SEP 23 **11-10**

JEPPESSEN FRANKFURT/MAIN, GERMANY ILS Y Rwy 25R

D-ATIS Arrival	LANGEN Radar (APP) North South		*FRANKFURT Director (APP)		*FRANKFURT Tower	*Ground
118.030	120.805	125.355	118.505	127.280	136.5	121.805
LOC IFWR 109.75	Final Apch Crs 246°	DF430 5000' (4649')	DA(H) Refer to Minimums	Apt Elev 363' Rwy 351'	4300 MSA ARP	
MISSED APCH: Direct to DF393 at or above 920' (MAX 220 KT), turn RIGHT direct to DF483 at or above 1850' (MAX 220 KT), turn RIGHT direct to DF484 at or above 4130' (MAX 250 KT), turn RIGHT direct to MTR at 5000'. Missed apch requires a min climb of 4.3% (261'/NM) to 4130'.						
Alt Set: hPa (IN on req)		Rwy Elev: 13 hPa	Trans level: By ATC		Trans alt: 5000'	
1. DME required. 2. RNAV-1 or RNP APCH or RNP-1 required. 3. DME/DME without IRU not authorized. 4. Radar required. 5. Parallel independent operation may be in force.						



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	➔ DF393	MIM 920'	220 KT MAX
GS	3.20°	396	510	566	679	793				

Std/State			STRAIGHT-IN LANDING		
ILS					
DA(H) ABC: 551' (200') D: 558' (207')					
		TDZ or CL out		ALS out	
A	R550m		■ R550m		R1200m
B					
C					
D					
■ R750m when a Flight Director or Autopilot or HUDLS to DA is not used.					

CHANGES: MSA.

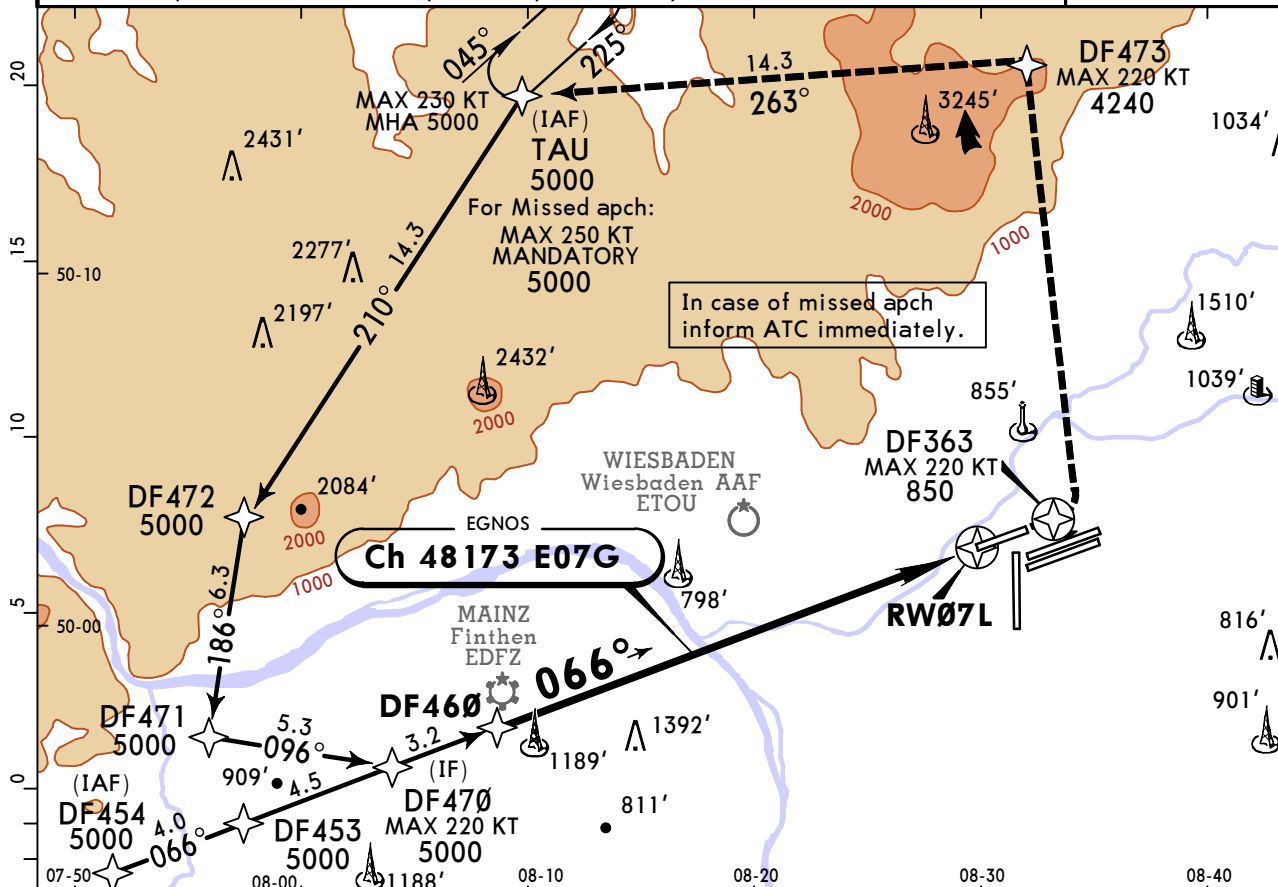
EDDF/FRA FRANKFURT/MAIN

JEPPESEN FRANKFURT/MAIN, GERMANY

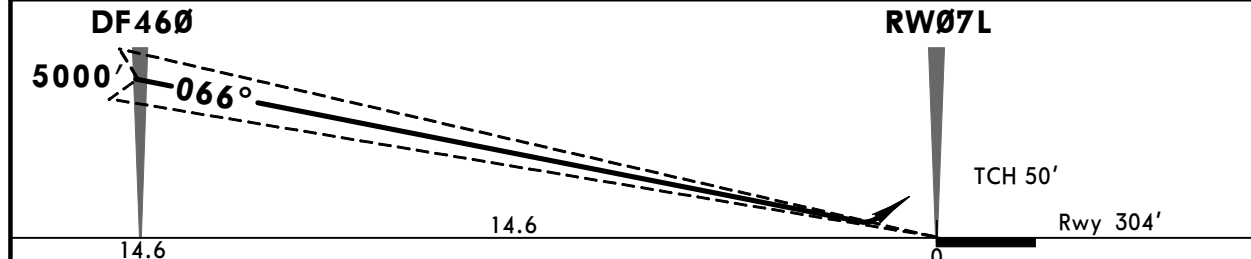
RNP Z Rwy 07L

7 JUL 23
Eff 13 Jul (12-1)

D-ATIS Arrival	LANGEN Radar (APP) North	LANGEN Radar (APP) South	*FRANKFURT Director (APP)	*FRANKFURT Tower	*Ground
118.030	120.805	125.355	118.505 127.280	136.5	121.805
EGNOS Ch 48173 E07G	Final Apch Crs 066°	DF460 5000' (4696')	LPV DA(H) Refer to Minimums	Apt Elev 363' Rwy 304'	<p>4300 MSA ARP</p>
MISSED APCH: Direct to DF363 at or above 850' (MAX 220 KT), turn LEFT direct to DF473 at or above 4240' (MAX 220 KT), then to TAU VOR at 5000' (MAX 250 KT). Missed apch requires a min climb of 4.1% (250'/NM) to 3500'.					
RNP Apch Alt Set: hPa(IN on req) Rwy Elev: 11 hPa Trans level: By ATC Trans alt: 5000'					
1. Radar required. 2. Parallel independent operation may be in force.					



DIST to RW07L	14.0	13.0	12.0	11.0	10.0	9.0	8.0	7.0	6.0	5.0	4.0	3.0	2.0
ALTITUDE	4820'	4500'	4180'	3860'	3540'	3220'	2910'	2590'	2270'	1950'	1630'	1310'	1000'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	DF363 MIN 850' MAX
Glide Path Angle	3.00°	372	478	531	637	743		

Std/State			STRAIGHT-IN LANDING		
			LPV DA(H) ABC: 504' (200') D: 512' (208') TDZ or CL out ALS out		
A					
B	R550m		R550m		R1200m
C					
D					

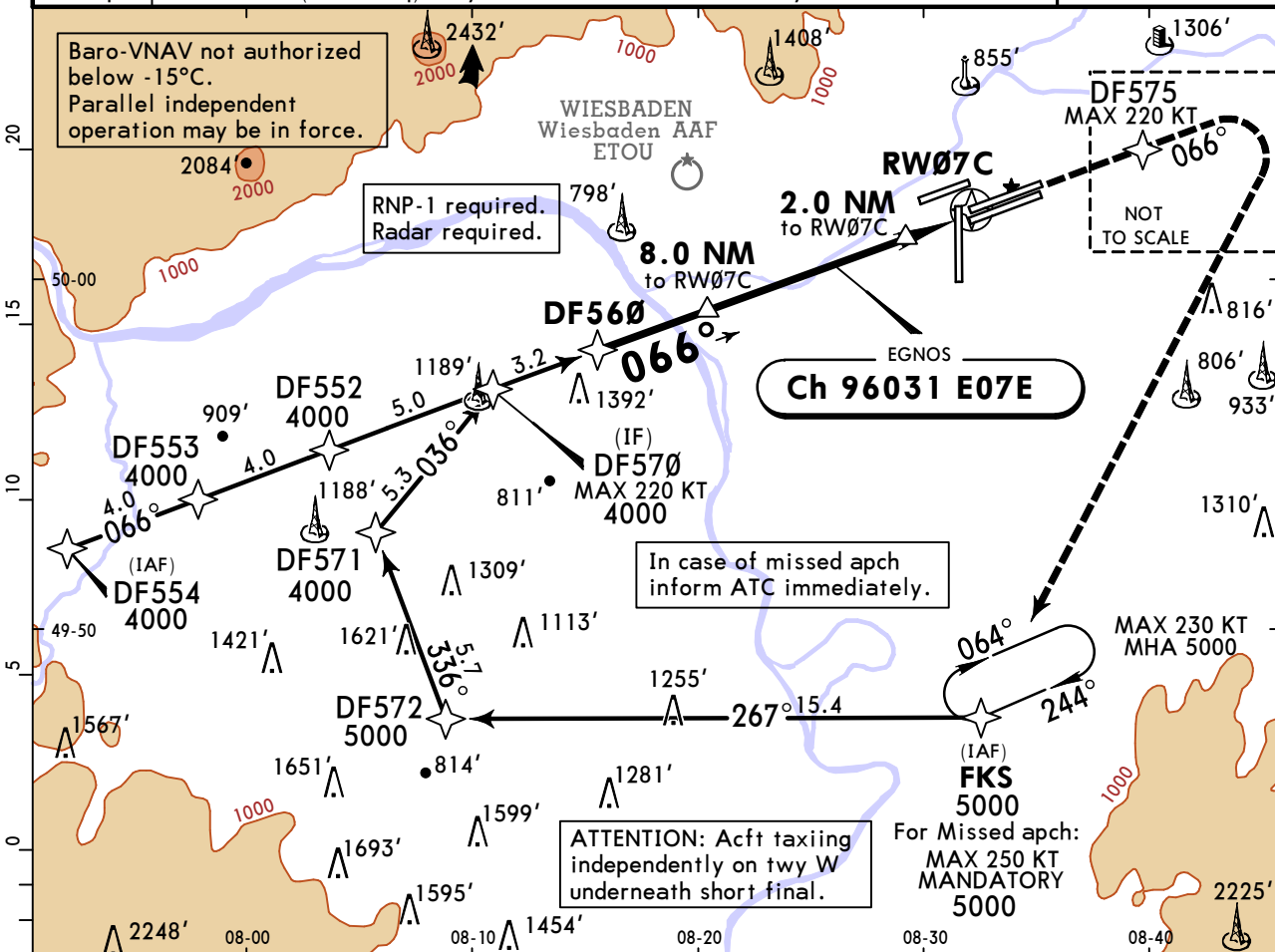
1 LPV (VAL 35m) 2 R750m when a Flight Director or Autopilot or HUDLS to DA is not used.

EDDF/FRA FRANKFURT/MAIN

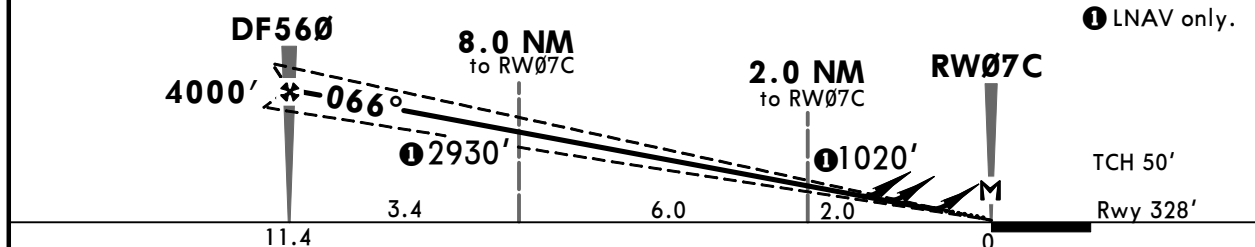
7 JUL 23 **(12-3)** Eff 13 Jul

JEPPesen FRANKFURT/MAIN, GERMANY RNP Z Rwy 07C

D-ATIS Arrival	LANGEN Radar (APP) North	LANGEN Radar (APP) South	*FRANKFURT Director (APP)	FRANKFURT Tower	*Ground
118.030	120.805	125.355	118.505 127.280	118.780 119.905	121.805
EGNOS Ch 96031 E07E	Final Apch Crs 066°	DF560 4000' (3672')	LPV DA(H) 528' (200')	Apt Elev 363' Rwy 328'	4300
MISSED APCH: Direct to DF575 (MAX 220 KT), climb on course 066° to 5000', then turn RIGHT (MAX 220 KT) direct to FKS at 5000' (MAX 250 KT).					
RNP Apch Alt Set: hPa (IN on req) Rwy Elev: 12 hPa Trans level: By ATC Trans alt: 5000'					MSA ARP



DIST to RW07C	11.0	10.0	9.0	8.0	7.0	6.0	5.0	4.0	3.0	2.0
ALTITUDE	3890'	3570'	3250'	2930'	2610'	2290'	1970'	1660'	1340'	1020'



Gnd speed-Kts	70	90	100	120	140	160	ALSIF-II REIL PAPI	D →	DF575	220 KT MAX	
Glide Path Angle	3.00°	372	478	531	637	743					849
MAP at RW07C											

Std/State		STRAIGHT-IN LANDING LNAV/VNAV				LNAV CDFA			
1 LPV		A: 652' (324') C: 692' (364') DA(H) B: 665' (337') D: 701' (373')				3 DA/MDA(H) 770' (442')			
DA(H) 528' (200')		TDZ or CL out		ALS out		TDZ or CL out		ALS out	
A		R800m		R1500m		R1400m		R1500m	
B	R550m	2 R550m		R1200m					
C		R1000m		R1700m				R2100m	
D									

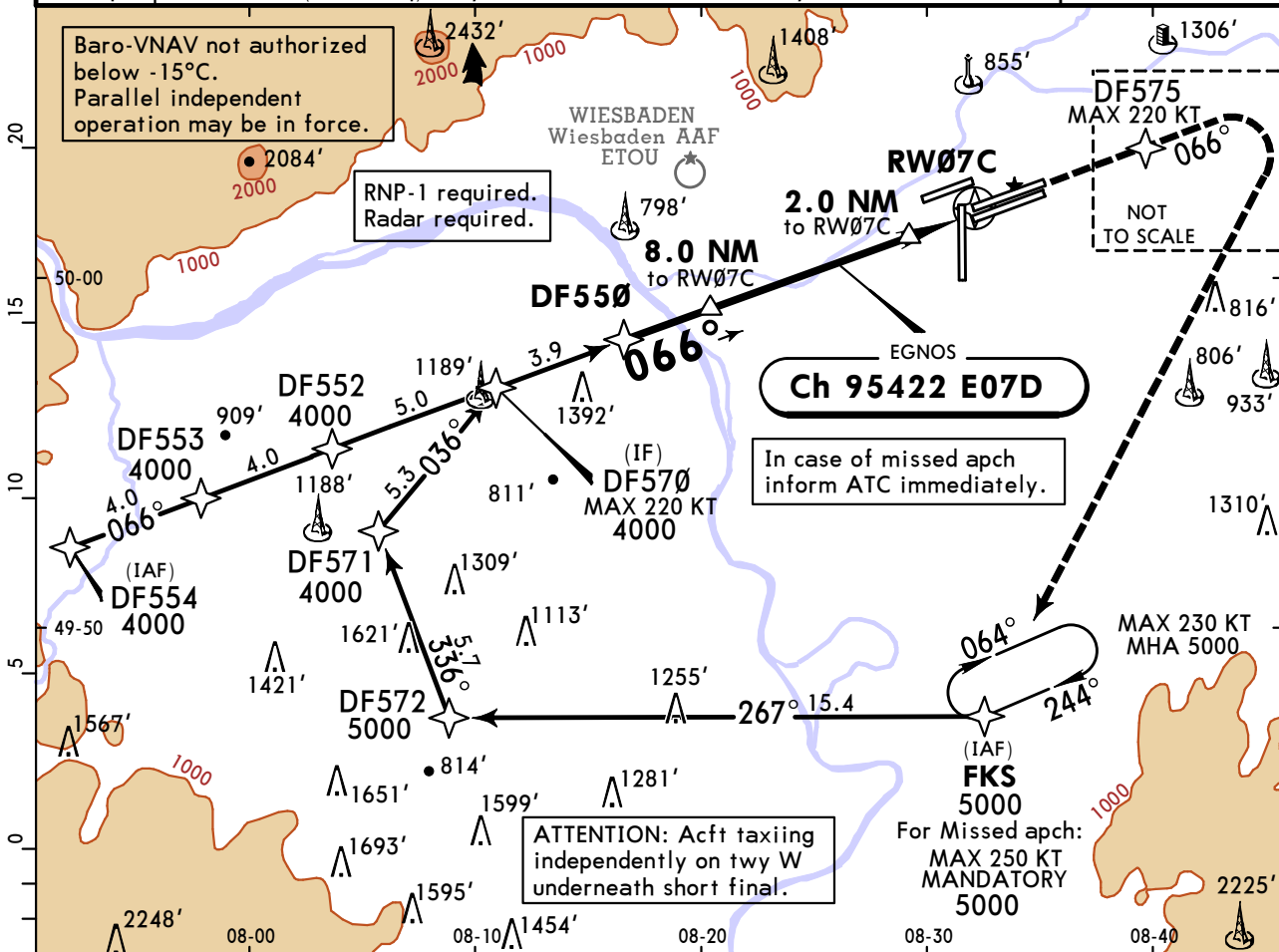
1 LPV (VAL 35m). 2 R750m when a Flight Director or Autopilot or HUDLS to DA is not used.
3 VNAV DA(H) in lieu of MDA(H) depends on operator policy.
CHANGES: Chart reindexed, Procedure, missed apch, MSA, minimums. © JEPPesen, 1999, 2023. ALL RIGHTS RESERVED.

EDDF/FRA FRANKFURT/MAIN

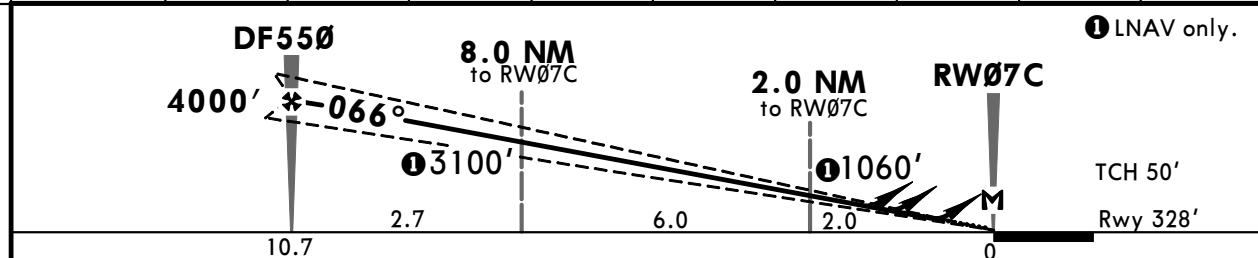
7 JUL 23 **(12-4)** Eff 13 Jul

JEPPesen FRANKFURT/MAIN, GERMANY RNP Y Rwy 07C

D-ATIS Arrival 118.030	LANGEN Radar (APP) North 120.805	South 125.355	*FRANKFURT Director (APP) 118.505 127.280	FRANKFURT Tower 118.780 119.905	*Ground 121.805
EGNOS Ch 95422 E07D	Final Apch Crs 066°	DF550 4000' (3672')	LPV DA(H) 528' (200')	Apt Elev 363' Rwy 328'	4300
MISSED APCH: Direct to DF575 (MAX 220 KT), climb on course 066° to 5000', then turn RIGHT (MAX 220 KT) direct to FKS at 5000' (MAX 250 KT).					
RNP Apch Alt Set: hPa (IN on req) Rwy Elev: 12 hPa Trans level: By ATC Trans alt: 5000'					MSA ARP



DIST to RW07C	10.0	9.0	8.0	7.0	6.0	5.0	4.0	3.0	2.0
ALTITUDE	3780'	3440'	3100'	2770'	2430'	2090'	1750'	1410'	1060'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	D → DF575 220 KT MAX	
Glide Path Angle	3.20°	396	510	566	679	793			906
MAP at RW07C									

Std/State 1 LPV			STRAIGHT-IN LANDING LNAV/VNAV			LNAV CDFA		
DA(H) 528' (200')			A: 652' (324') C: 692' (364') B: 665' (337') D: 701' (373')			3 DA/MDA(H) 770' (442')		
A	TDZ or CL out	ALS out	TDZ or CL out	ALS out	TDZ or CL out	ALS out	TDZ or CL out	ALS out
B	R550m	2 R550m	R1200m	R800m	R1500m	R1400m	R1500m	R1500m
C				R1000m	R1700m			R2100m
D								

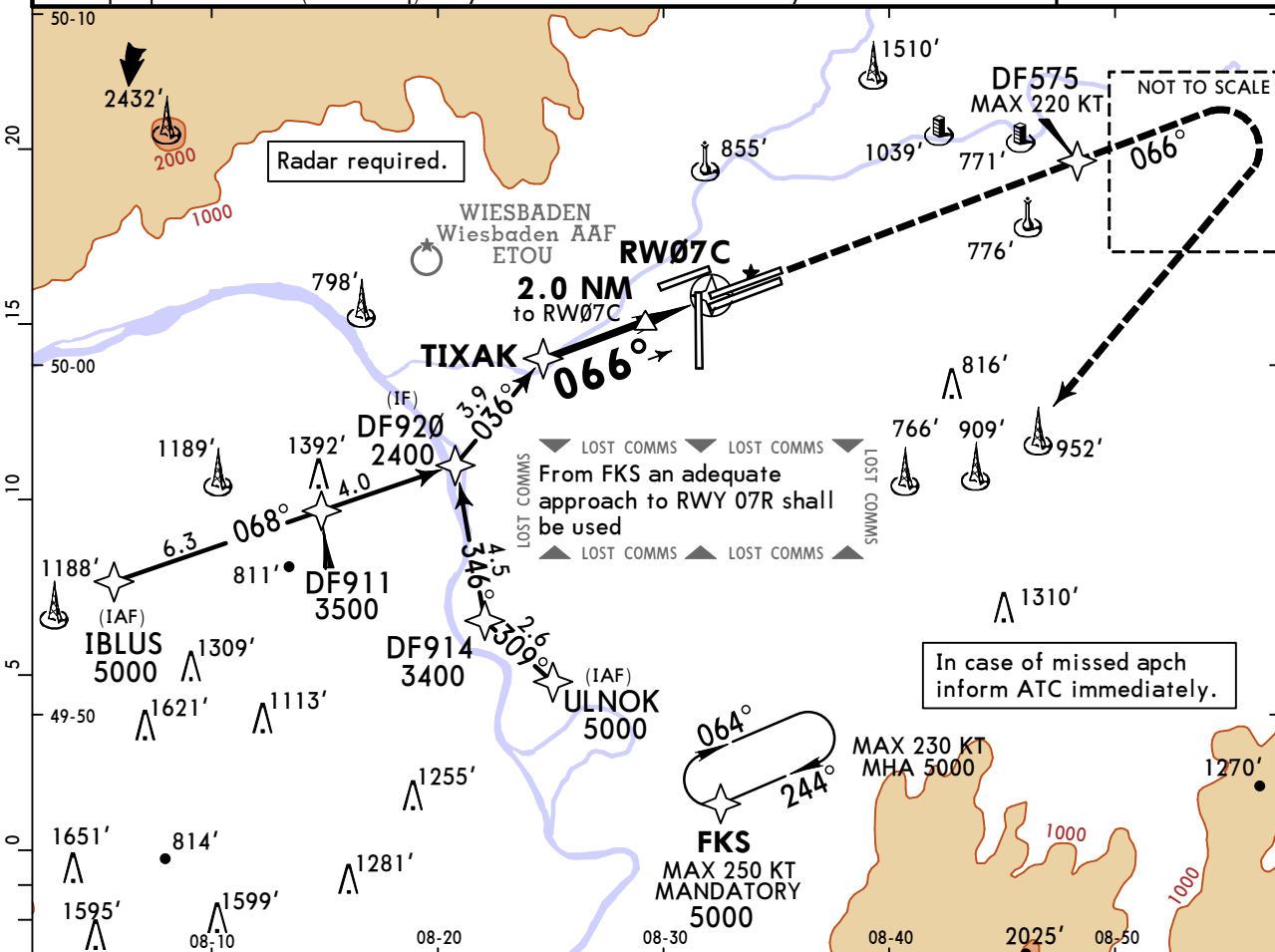
1 LPV (VAL 35m). 2 R750m when a Flight Director or Autopilot or HUDLS to DA is not used.
3 VNAV DA(H) in lieu of MDA(H) depends on operator policy.

EDDF/FRA FRANKFURT/MAIN

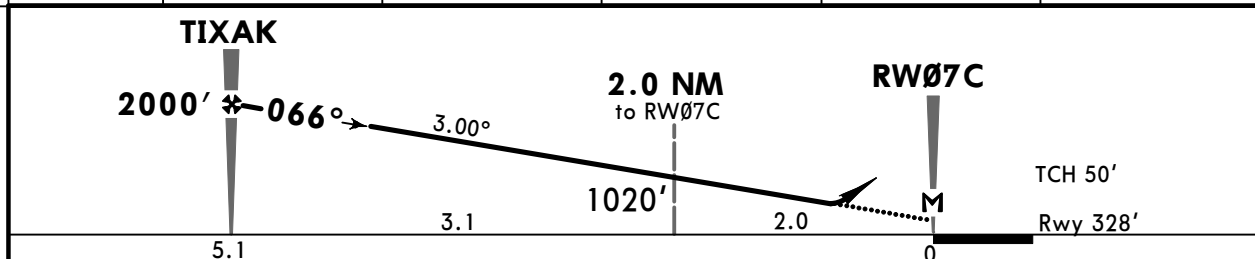
26 APR 24 (12-5)

JEPPESSEN FRANKFURT/MAIN, GERMANY RNP X Rwy 07C

D-ATIS Arrival	LANGEN Radar (APP) North South		*FRANKFURT Director (APP)		FRANKFURT Tower		*Ground
118.030	120.805	125.355	118.505	127.280	118.780	119.905	121.805
RNAV	Final Apch Crs 066°	TIXAK 2000' (1672')		DA/MDA(H) Refer to Minimums	Apt Elev 363' Rwy 328'	4300	
MISSED APCH: Direct to DF575 (MAX 220 KT), climb on course 066° to 5000', then turn RIGHT (MAX 220 KT) direct to FKS at 5000' (MAX 250 KT).							
RNP Apch	Alt Set: hPa (IN on req) Rwy Elev: 12 hPa Trans level: By ATC Trans alt: 5000'					MSA ARP	



DIST to RW07C	5.0	4.0	3.0	2.0	1.0
ALTITUDE	1880'	1660'	1340'	1020'	700'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI D → DF575 220 KT MAX
Descent Angle 3.00°	372	478	531	637	743	849	
MAP at RW07C							
TIXAK to MAP	5.1	4:22	3:24	3:04	2:33	2:11	

Std/State		STRAIGHT-IN LANDING LNAV CDFA	
DA/MDA(H) A: 780' (452') BC: 820' (492') D: 840' (512')			
		TDZ or CL out	ALS out
A	R1400m		R1500m
B	R1500m		R2300m
C	R1600m		R2400m
D	R1600m		R2400m

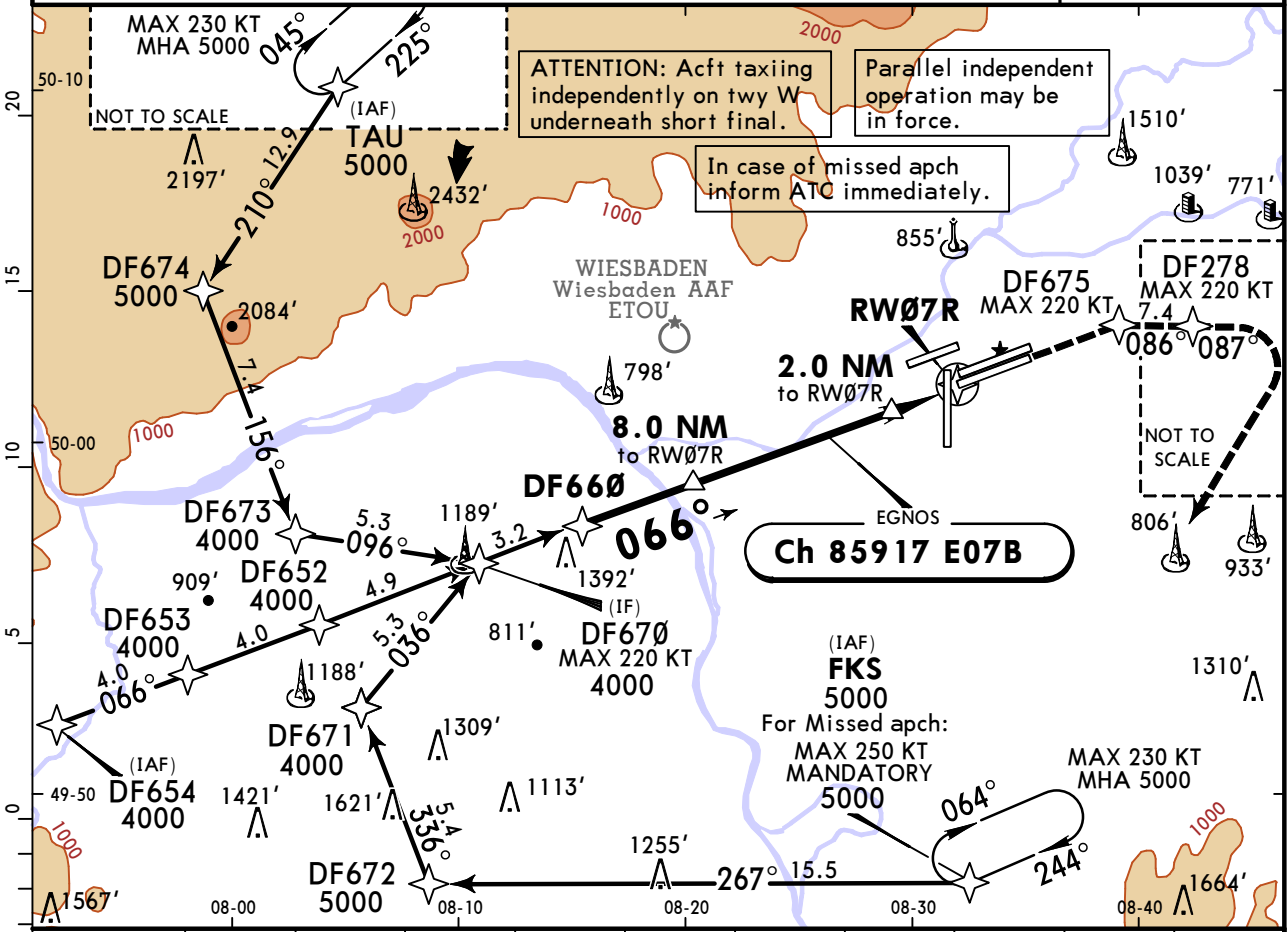
CHANGES: Recommended altitudes, Ground Speed Box. © JEPPESSEN, 2011, 2024. ALL RIGHTS RESERVED.

EDDF/FRA FRANKFURT/MAIN

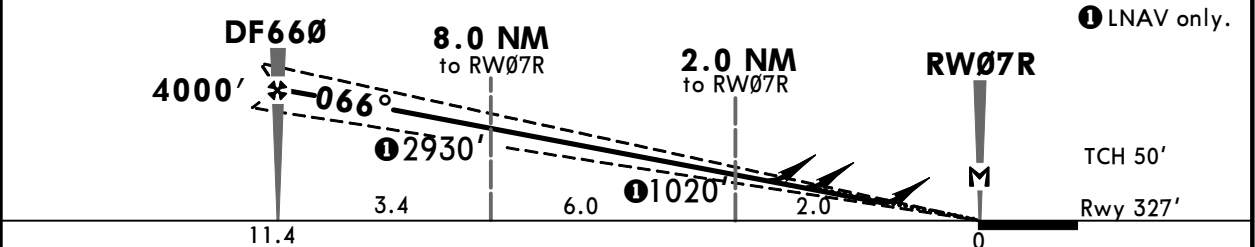
26 APR 24 (12-6)

JEPPESSEN FRANKFURT/MAIN, GERMANY RNP Z Rwy 07R

D-ATIS Arrival	LANGEN Radar (APP) North	LANGEN Radar (APP) South	*FRANKFURT Director (APP)	FRANKFURT Tower	*Ground
118.030	120.805	125.355	118.505 127.280	118.780 119.905	121.805
EGNOS Ch 85917 E07B	Final Apch Crs 066°	DF660 4000' (3673')	LPV DA(H) 527' (200')	Apt Elev 363' Rwy 327'	4300 MSA ARP
MISSED APCH: Direct to DF675 (MAX 220 KT), then to DF278 (MAX 220 KT). Climb on course 087° to 5000', then turn RIGHT (MAX 220 KT) direct to FKS at 5000' (MAX 250 KT).					
RNP Apch Alt Set: hPa (IN on req) Rwy Elev: 12 hPa Trans level: By ATC Trans alt: 5000'					
1. RNP-1 required. 2. Radar required. 3. Baro-VNAV not authorized below -15° C.					



DIST to RW07R	11.0	10.0	9.0	8.0	7.0	6.0	5.0	4.0	3.0	2.0
ALTITUDE	3880'	3570'	3250'	2930'	2610'	2290'	1970'	1660'	1340'	1020'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	D → DF675 220 KT MAX
Glide Path Angle 3.00°	372	478	531	637	743	849		
MAP at RW07R								
DF660 to MAP	11.4	9:46	7:36	6:50	5:42	4:53		

Std/State		STRAIGHT-IN LANDING				LNAV	
1 LPV		LNAV/VNAV				CDFA	
DA(H) 527' (200')		A: 652' (325') C: 673' (346')		DA(H) B: 665' (338') D: 715' (388')		ABC: 740' (413') D: 750' (423')	
TDZ or CL out	ALS out	TDZ or CL out	ALS out	TDZ or CL out	ALS out	TDZ or CL out	ALS out
A							
B	R550m	R550m	R1200m	R800m	R1500m	R1200m	R1500m
C				R900m	R1600m		R1900m
D				R1100m	R1800m	R1300m	R2000m

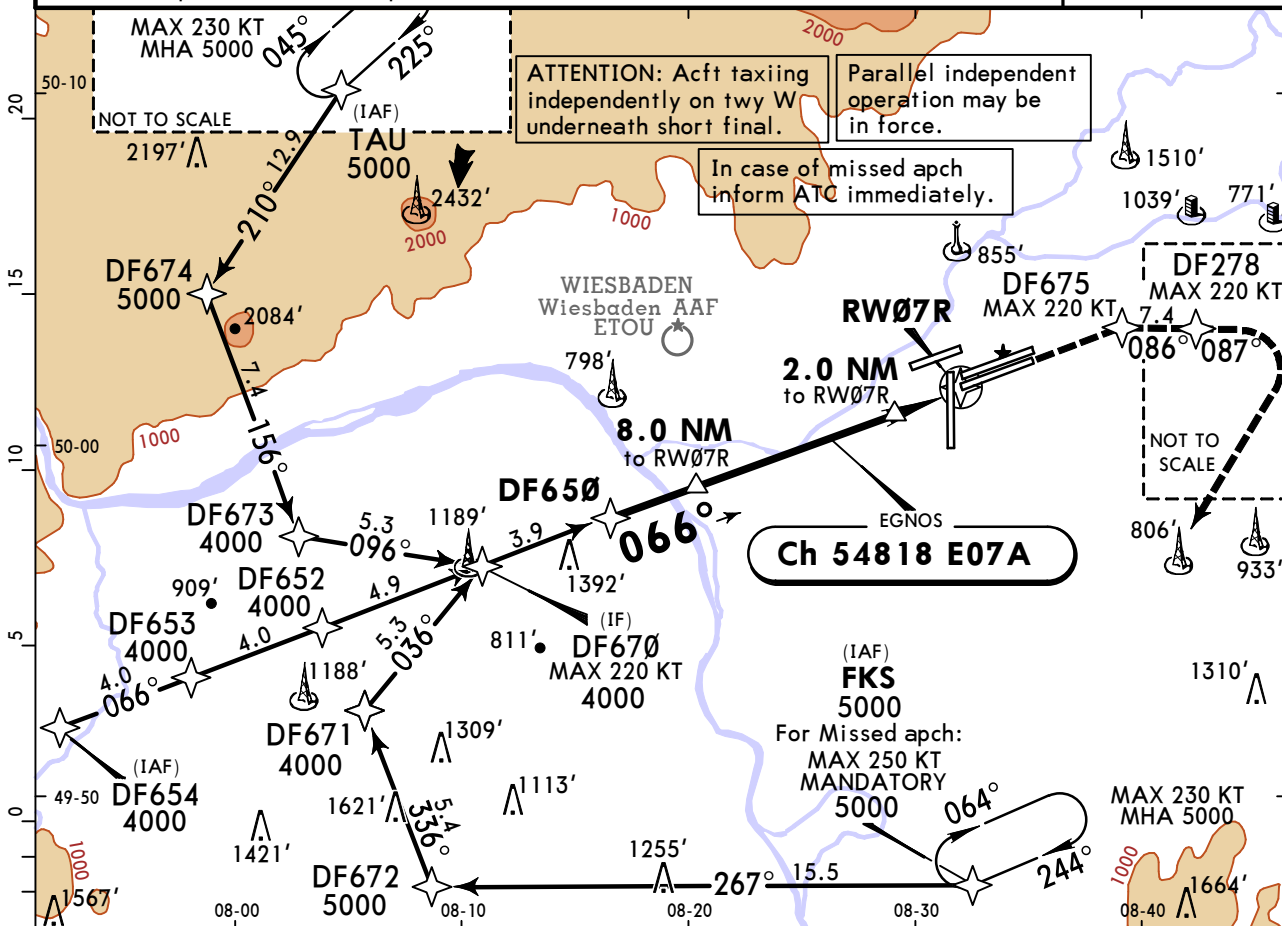
1 LPV (VAL 35m). 2 R750m when a Flight Director or Autopilot or HUDLS to DA is not used.
3 VNAV DA(H) in lieu of MDA(H) depends on operator policy.

EDDF/FRA
FRANKFURT/MAIN

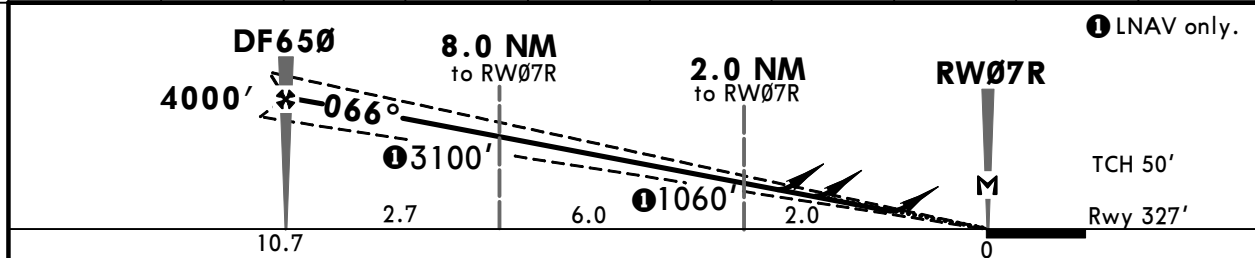
26 APR 24 (12-7)

JEPPESEN FRANKFURT/MAIN, GERMANY
RNP Y Rwy 07R

D-ATIS Arrival	LANGEN Radar (APP) North	South	*FRANKFURT Director (APP)	FRANKFURT Tower	*Ground
118.030	120.805	125.355	118.505 127.280	118.780 119.905	121.805
EGNOS Ch 54818 E07A	Final Apch Crs 066°	DF650 4000' (3673')	LPV DA(H) 527' (200')	Apt Elev 363' Rwy 327'	4300 MSA ARP
MISSED APCH: Direct to DF675 (MAX 220 KT), then to DF278 (MAX 220 KT). Climb on course 087° to 5000', then turn RIGHT (MAX 220 KT) direct to FKS at 5000' (MAX 250 KT).					
RNP Apch Alt Set: hPa (IN on req) Rwy Elev: 12 hPa Trans level: By ATC Trans alt: 5000'					
1. RNP-1 required. 2. Radar required. 3. Baro-VNAV not authorized below -15° C.					



DIST to RW07R	10.0	9.0	8.0	7.0	6.0	5.0	4.0	3.0	2.0
ALTITUDE	3780'	3440'	3100'	2760'	2420'	2080'	1740'	1400'	1060'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	DF675 220 KT MAX	
Glide Path Angle	3.20°	396	510	566	679	793			906
MAP at RW07R									
DF650 to MAP	10.7	9:10	7:08	6:25	5:21	4:35			4:01

Std/State		STRAIGHT-IN LANDING				LNAV	
1 LPV		LNAV/VNAV				CDFA	
DA(H) 527' (200')		A: 652' (325') C: 673' (346')		DA(H) B: 665' (338') D: 715' (388')		ABC: 740' (413')	
TDZ or CL out		ALS out		TDZ or CL out		D: 750' (423')	
A							
B	R550m	2 R550m	R1200m	R800m	R1500m	R1200m	R1500m
C				R900m	R1600m		R1900m
D				R1100m	R1800m	R1300m	R2000m

1 LPV (VAL 35m). 2 R750m when a Flight Director or Autopilot or HUDLS to DA is not used.
3 VNAV DA(H) in lieu of MDA(H) depends on operator policy.

CHANGES: Ground Speed Box.

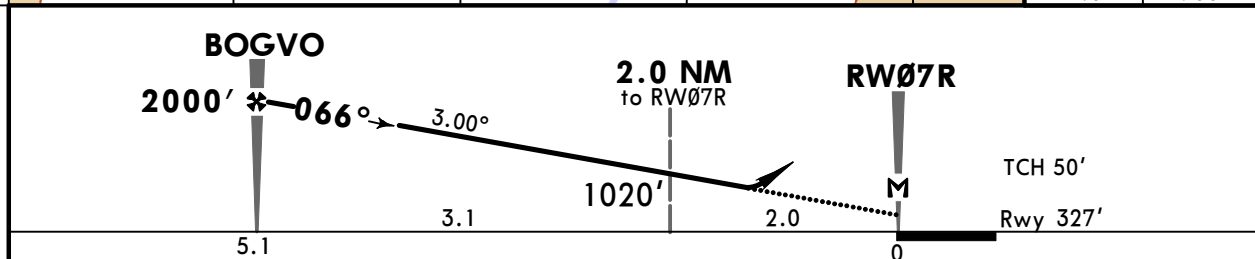
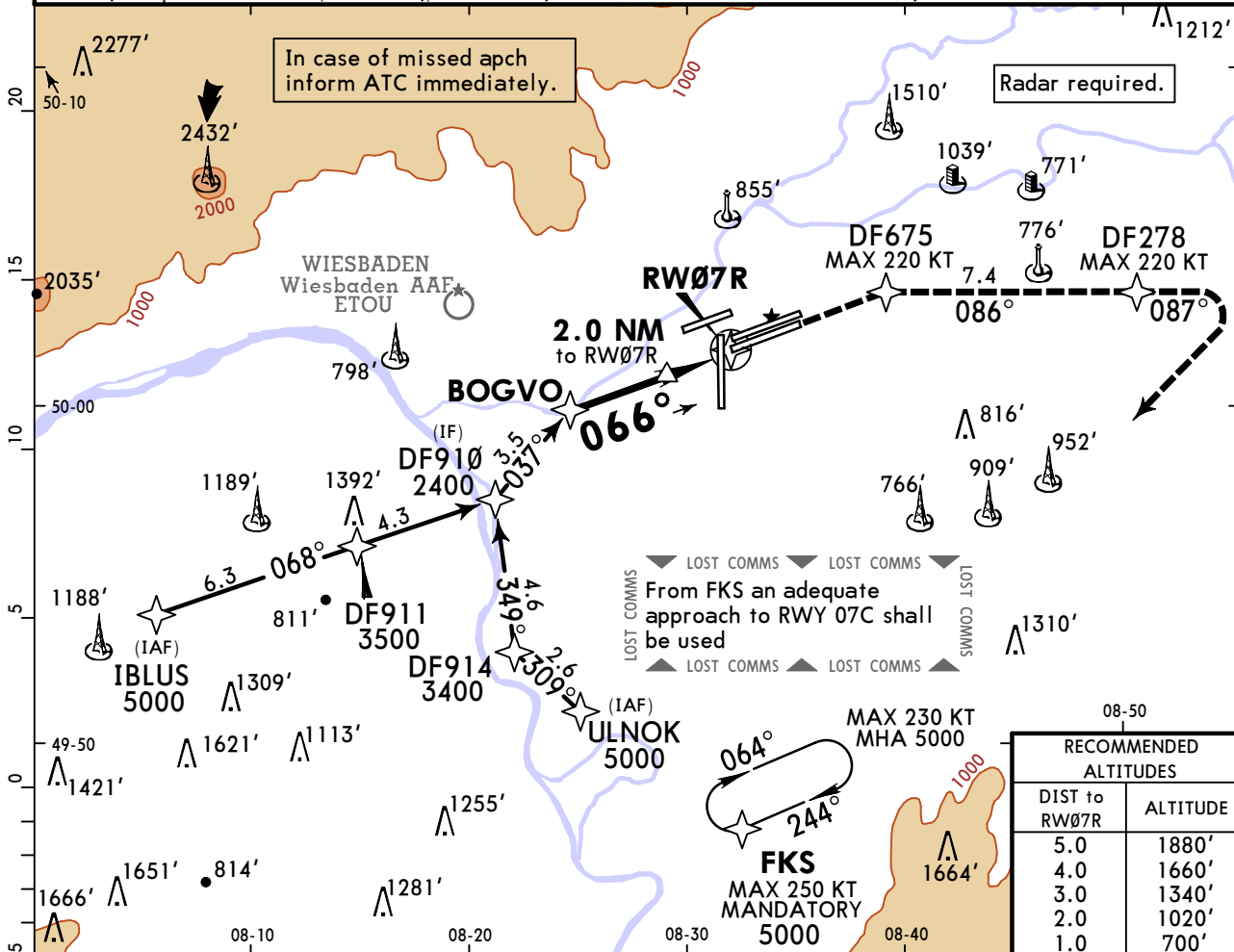
EDDF/FRA
FRANKFURT/MAIN

26 APR 24 (12-8)

JEPPESEN FRANKFURT/MAIN, GERMANY
RNP X Rwy 07R

D-ATIS Arrival	LANGEN Radar (APP) North	LANGEN Radar (APP) South	*FRANKFURT Director (APP)	FRANKFURT Tower	*Ground
118.030	120.805	125.355	118.505 127.280	118.780 119.905	121.805
RNAV	Final ApcH Crs 066°	BOGVO 2000' (1673')	DA/MDA(H) Refer to Minimums	Apt Elev 363' Rwy 327'	4300 MSA ARP
MISSED APCH: Direct to DF675 (MAX 220 KT), then to DF278 (MAX 220 KT). Climb on course 087° to 5000', then turn RIGHT (MAX 220 KT) direct to FKS at 5000' (MAX 250 KT).					

RNP ApcH | Alt Set: hPa (IN on req) | Rwy Elev: 12 hPa | Trans level: By ATC | Trans alt: 5000'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI -D-> DF675 220 KT MAX
Descent Angle 3.00°	372	478	531	637	743	849	
MAP at RWY 07R							
BOGVO to MAP	5.1	4:22	3:24	3:04	2:33	2:11	

Std/State STRAIGHT-IN LANDING
LNAV
CDFA
 DA/MDA(H) AB: **810'**(483') C: **830'**(503') D: **840'**(513')
 TDZ or CL out | ALS out

A	R1500m
B	
C	R2400m
D	

VNAV DA(H) in lieu of MDA(H) depends on operator policy.

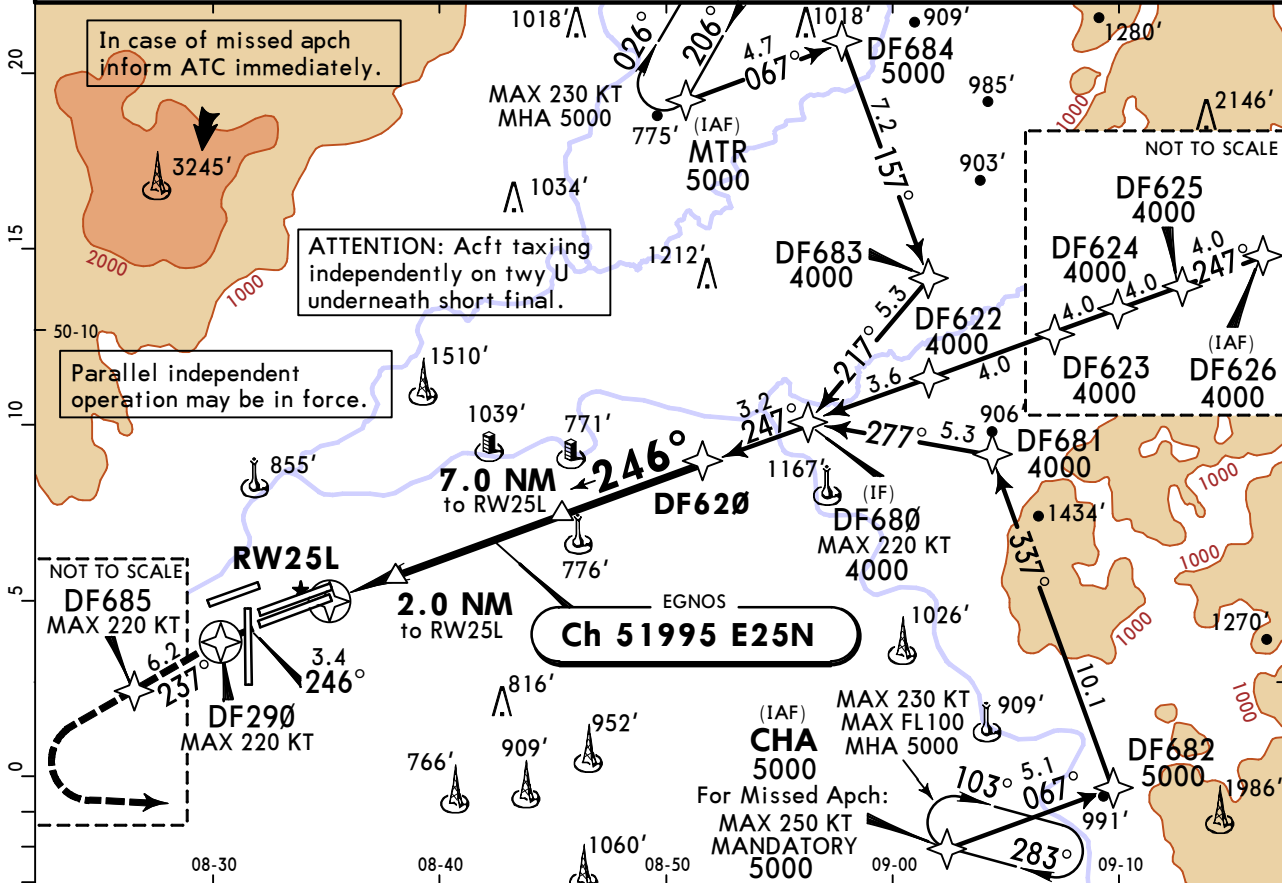
EDDF/FRA FRANKFURT/MAIN

JEPPESEN FRANKFURT/MAIN, GERMANY RNP Z Rwy 25L

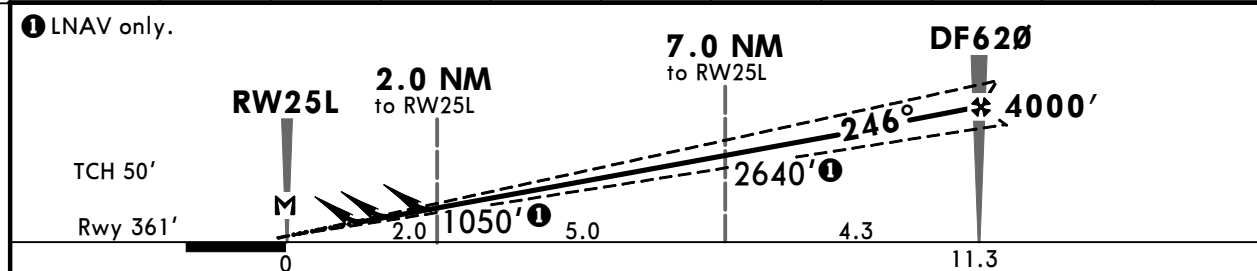
7 JUL 23 (12-9) Eff 13 Jul

D-ATIS Arrival 118.030	LANGEN Radar (APP) North 120.805	South 125.355	*FRANKFURT Director (APP) 118.505 127.280	FRANKFURT Tower 118.780 119.905	*Ground 121.805
EGNOS Ch 51995 E25N	Final Apch Crs 246°	DF620 4000' (3639')	LPV DA(H) 561' (200')	Apt Elev 363' Rwy 361'	4300 MSA ARP
MISSED APCH: Direct to DF290 (MAX 220 KT), then direct to DF685 (MAX 220 KT). Climb on course 237° to 5000', then turn LEFT (MAX 220 KT) direct to CHA at 5000' (MAX 250 KT).					

RNP Apch Alt Set: hPa (IN on req) Rwy Elev: 13 hPa Trans level: By ATC Trans alt: 5000'
 1. RNP-1 required. 2. Radar required. 3. Baro-VNAV not authorized below -15°C.



DIST to RW25L	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0
ALTITUDE	1050'	1370'	1690'	2010'	2330'	2640'	2960'	3280'	3600'	3920'



MAP at RW25L							DF290 220 KT MAX
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Std/State		STRAIGHT-IN LANDING				
1 LPV		LNAV/VNAV				
2 DA(H) 561' (200')		A: 726' (365') C: 747' (386')		4 DA/MDA(H) LNAV CDF A: 770' (409') C: 800' (439')		
		B: 738' (377') D: 757' (396')		B: 780' (419') D: 820' (459')		
	TDZ or CL out	ALS out	TDZ or CL out	ALS out	TDZ or CL out	ALS out
A			R1000m	R1500m	R1200m	R1500m
B	R550m	3 R550m	R1200m			
C			R1100m	R1800m	R1300m	R2000m
D					R1400m	R2100m

1 LPV (VAL 35m). 2 DL: DA(H) 588' (227'). 3 R750m when a Flight Director or Autopilot or HUDLS to DA is not used. 4 VNAV DA(H) in lieu of MDA(H) depends on operator policy.

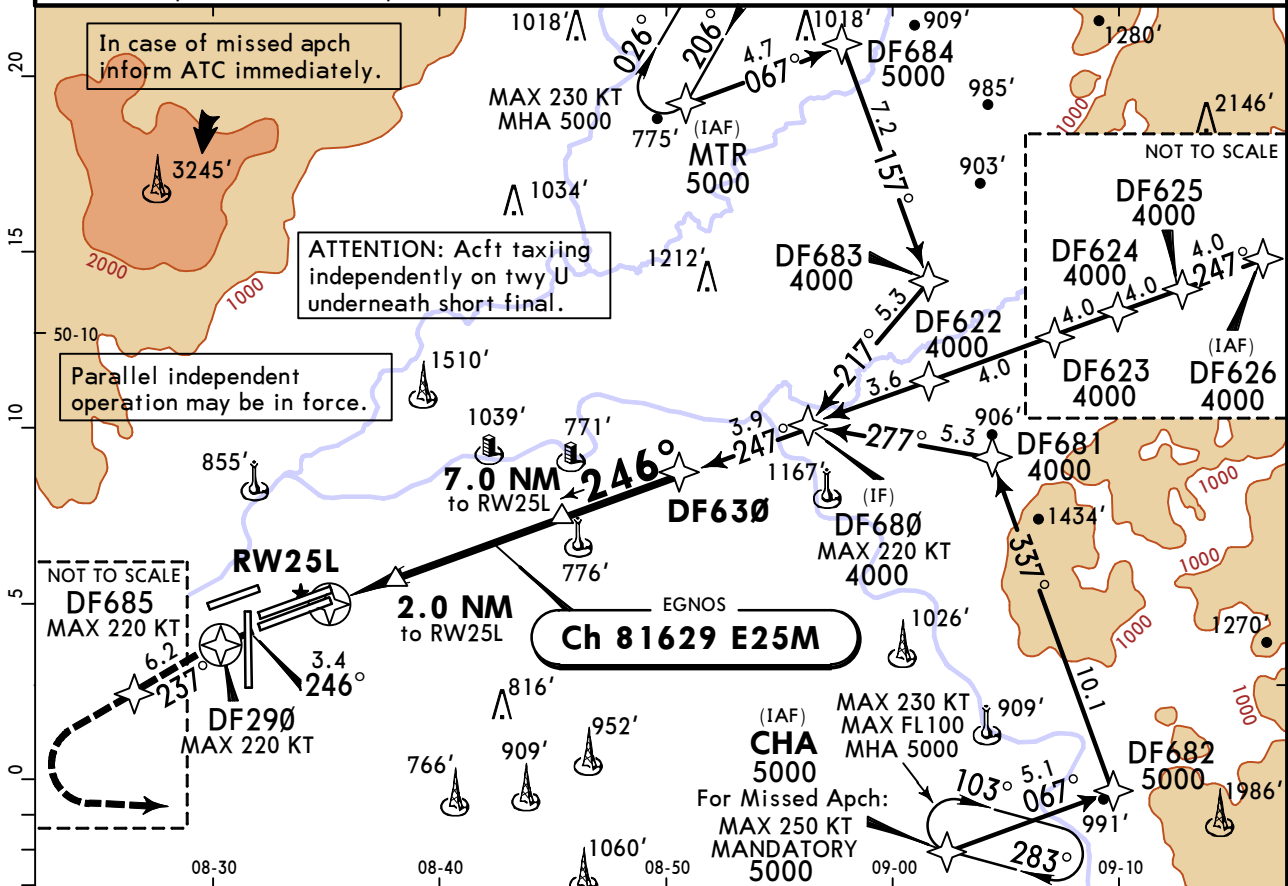
EDDF/FRA FRANKFURT/MAIN

JEPPESEN FRANKFURT/MAIN, GERMANY RNP Y Rwy 25L

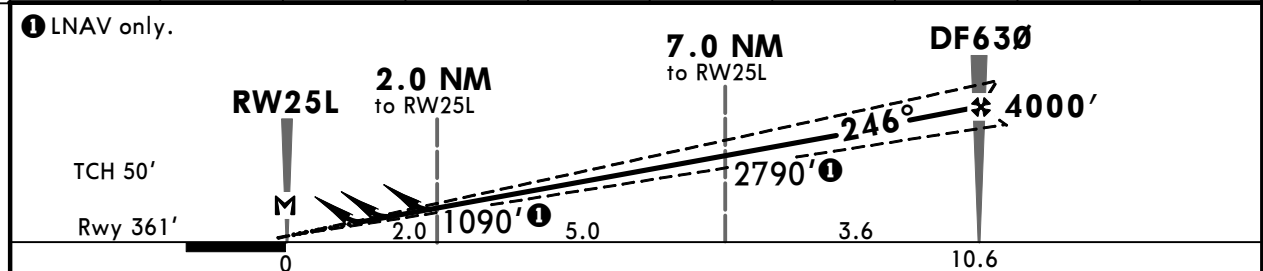
7 JUL 23 **12-10** Eff 13 Jul

D-ATIS Arrival 118.030	LANGEN Radar (APP) North 120.805	South 125.355	*FRANKFURT Director (APP) 118.505 127.280	FRANKFURT Tower 118.780 119.905	*Ground 121.805
EGNOS Ch 81629 E25M	Final Apch Crs 246°	DF630 4000' (3639')	LPV DA(H) 561' (200')	Apt Elev 363' Rwy 361'	4300 MSA ARP
MISSED APCH: Direct to DF290 (MAX 220 KT), then direct to DF685 (MAX 220 KT). Climb on course 237° to 5000', then turn LEFT (MAX 220 KT) direct to CHA at 5000' (MAX 250 KT).					

RNP Apch | Alt Set: hPa (IN on req) | Rwy Elev: 13 hPa | Trans level: By ATC | Trans alt: 5000'
 1. RNP-1 required. 2. Radar required. 3. Baro-VNAV not authorized below -15°C.



DIST to RW25L	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
ALTITUDE	1090'	1430'	1770'	2110'	2450'	2790'	3130'	3470'	3810'



Gnd speed-Kts	70	90	100	120	140	160	ALS-F-II REIL PAPI	DF290 220 KT MAX
Glide Path Angle	3.20°	396	510	566	679	906		
MAP at RW25L								

Std/State		STRAIGHT-IN LANDING LNAV/VNAV				③ DA/MDA(H) LNAV CDFA			
① LPV		A: 729' (368') C: 750' (389') B: 742' (381') D: 760' (399')				A: 770' (409') C: 800' (439') B: 780' (419') D: 820' (459')			
DA(H) 561' (200')		TDZ or CL out		ALS out		TDZ or CL out		ALS out	
A	R550m	② R550m		R1200m		R1000m		R1500m	
B	R550m	R1200m		R1100m		R1500m		R1200m	
C	R550m	R1200m		R1100m		R1800m		R1300m	
D	R550m	R1200m		R1100m		R1800m		R1400m	

① LPV (VAL 35m). ② R750m when a Flight Director or Autopilot or HUDLS to DA is not used.
 ③ VNAV DA(H) in lieu of MDA(H) depends on operator policy.

EDDF/FRA
FRANKFURT/MAIN

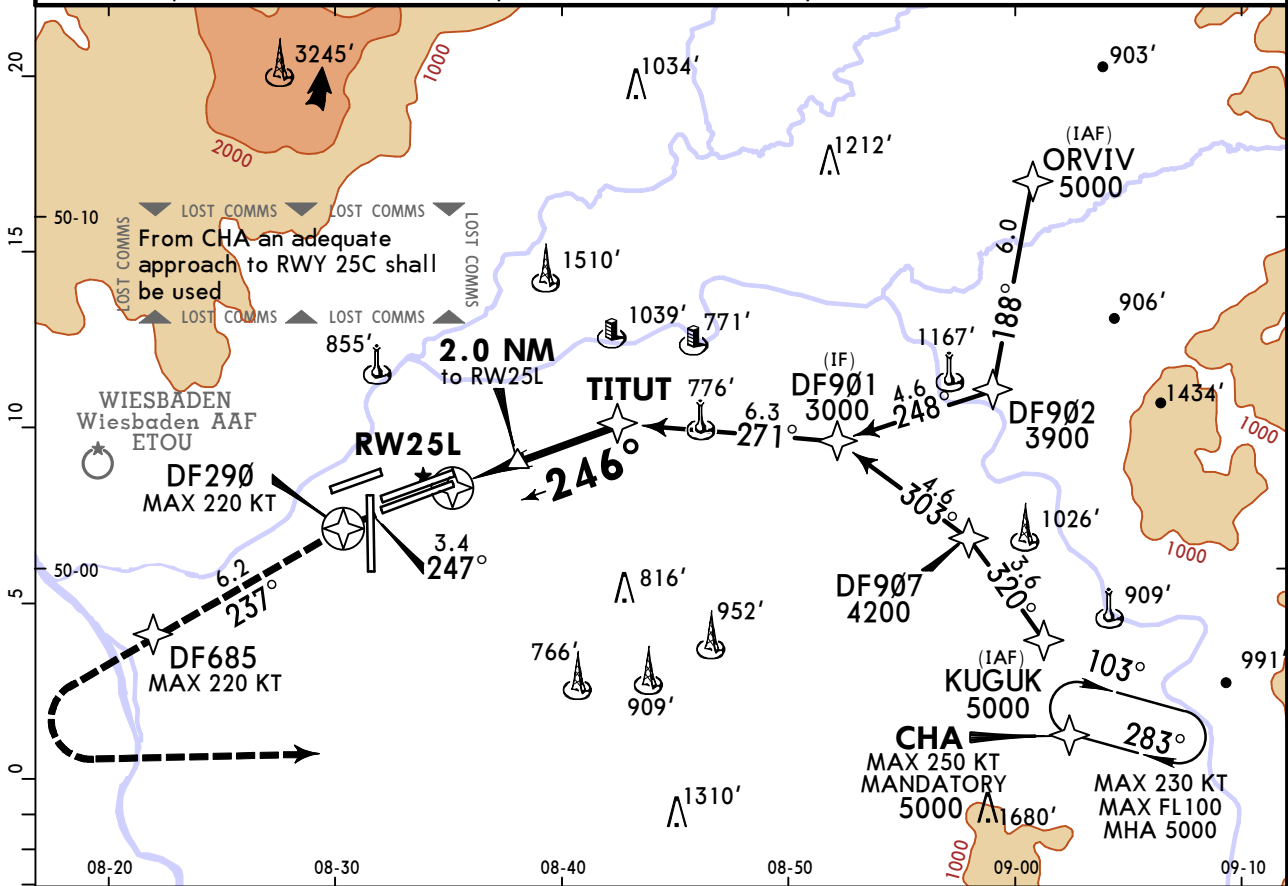
26 APR 24 (12-11)

JEPPESEN FRANKFURT/MAIN, GERMANY
RNP X Rwy 25L

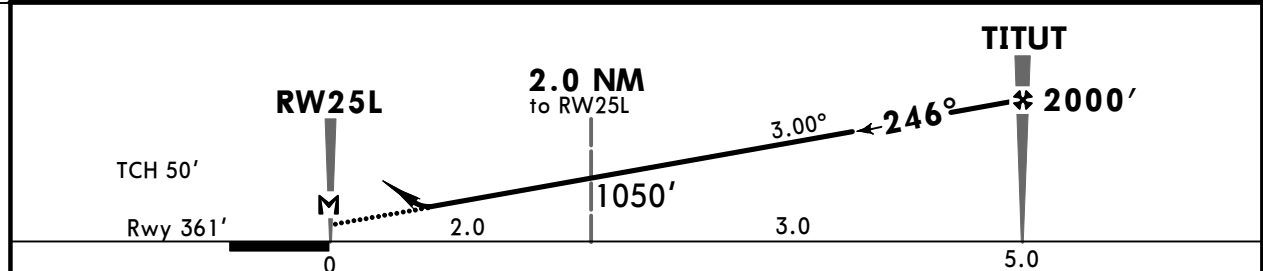
D-ATIS Arrival	LANGEN Radar (APP)		*FRANKFURT Director (APP)		FRANKFURT Tower		*Ground
118.030	North 120.805	South 125.355	118.505	127.280	118.780	119.905	121.805
RNAV	Final Apch Crs 246°	TITUT 2000' (1639')	DA/MDA(H) 840' (479')	Apt Elev 363'	4300 MSA ARP		
MISSED APCH: Direct to DF290 (MAX 220 KT), then direct to DF685 (MAX 220 KT). Climb on course 237° to 5000', then turn LEFT (MAX 220 KT) direct to CHA at 5000' (MAX 250 KT).				Rwy 361'			

RNP Apch | Alt Set: hPa (IN on req) | Rwy Elev: 13 hPa | Trans level: By ATC | Trans alt: 5000'

1. Radar required. 2. In case of missed apch inform ATC immediately.



DIST to RW25L	1.0	2.0	3.0	4.0	5.0
ALTITUDE	730'	1050'	1370'	1690'	1930'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	DF290 220 KT MAX
Descent Angle 3.00°	372	478	531	637	743	849		
MAP at RW25L								
TITUT to MAP	5.0	4:17	3:20	3:00	2:30	2:09		

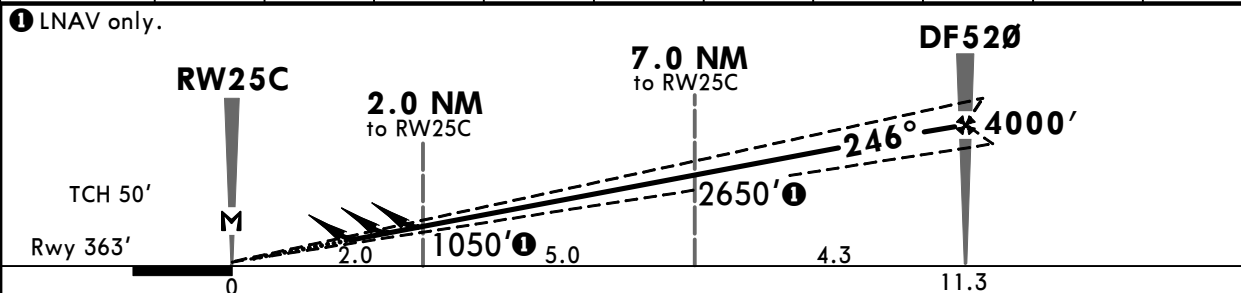
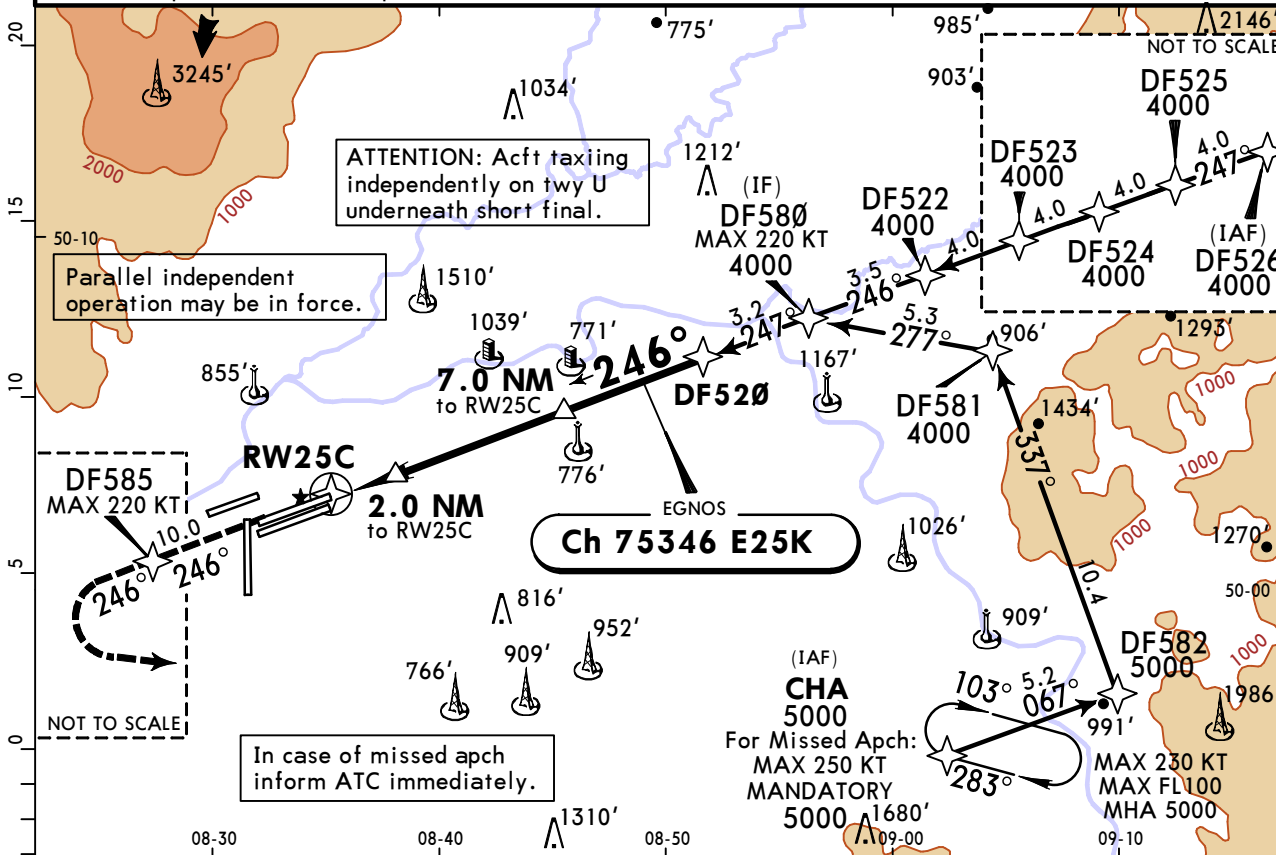
Std/State		STRAIGHT-IN LANDING	
		LNAV CDFA	
		DA/MDA(H) 840' (479')	
		TDZ or CL out	
		ALS out	
A	R1500m		R1500m
B			R1500m
C			R2200m
D			R2200m
VNAV DA(H) in lieu of MDA(H) depends on operator policy.			

EDDF/FRA FRANKFURT/MAIN

26 APR 24 **12-12**

JEPPESSEN FRANKFURT/MAIN, GERMANY RNP Z Rwy 25C

D-ATIS Arrival	LANGEN Radar (APP) North South		*FRANKFURT Director (APP)		FRANKFURT Tower		*Ground
118.030	120.805	125.355	118.505	127.280	118.780	119.905	121.805
EGNOS Ch 75346 E25K	Final Apch Crs 246°	DF520 4000' (3637')		LPV DA(H) 563' (200')	Apt Elev 363' Rwy 363'	4300 MSA ARP	
MISSED APCH: Direct to DF585 (MAX 220 KT), then climb on course 246° to 5000', then turn LEFT (MAX 220 KT) direct to CHA at 5000' (MAX 250KT).							
RNP Apch	Alt Set: hPa (IN on req)		Rwy Elev: 13 hPa	Trans level: By ATC		Trans alt: 5000'	
1. RNP-1 required. 2. Radar required. 3. Baro-VNAV not authorized below -15°C.							



DF585	220 KT MAX
-------	------------

Std/State		1 LPV		STRAIGHT-IN LANDING LNAV/VNAV		LNAV CDFA	
DA(H) 563' (200')		A: 691' (328') C: 706' (343')		DA(H) B: 700' (337') D: 714' (351')		3 DA/MDA(H) 790' (427')	
A	TDZ or CL out	ALS out	TDZ or CL out	ALS out	TDZ or CL out	ALS out	
B	R550m	2 R550m	R1200m	R800m	R1500m	R1300m	R1500m
C				R900m	R1600m		R2000m
D							

1 LPV (VAL 35m). **2** R750m when a Flight Director or Autopilot or HUDLS to DA is not used.
3 VNAV DA(H) in lieu of MDA(H) depends on operator policy.

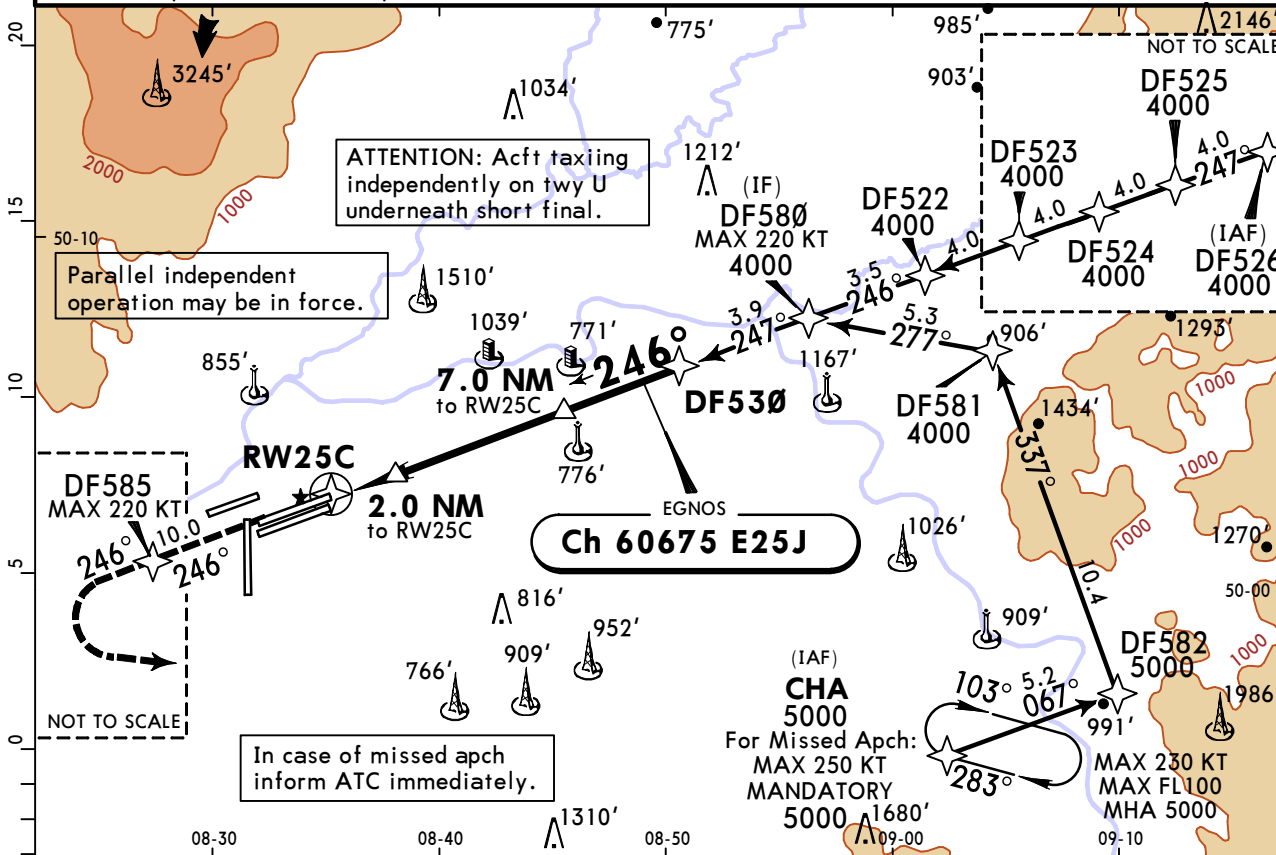
EDDF/FRA
FRANKFURT/MAIN

26 APR 24 **12-13**

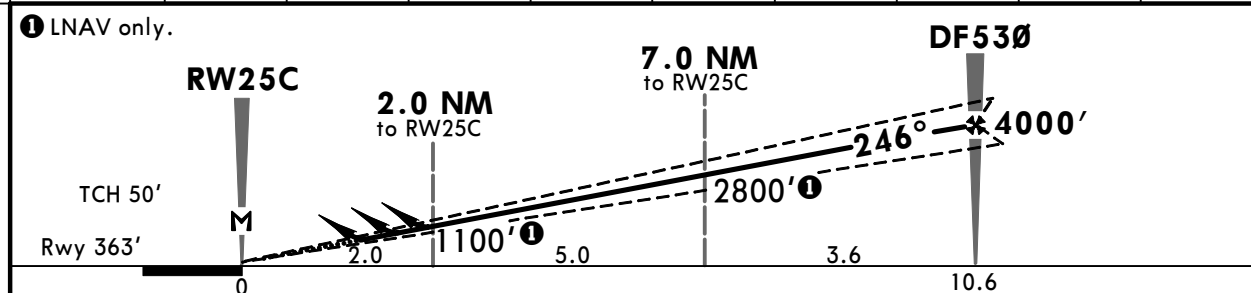
JEPPESSEN FRANKFURT/MAIN, GERMANY
RNP Y Rwy 25C

D-ATIS Arrival	LANGEN Radar (APP) North South		*FRANKFURT Director (APP)		FRANKFURT Tower		*Ground
118.030	120.805	125.355	118.505	127.280	118.780	119.905	121.805
EGNOS Ch 60675 E25J	Final Apch Crs 246°	DF530 4000' (3637')		LPV DA(H) 563' (200')	Apt Elev 363' Rwy 363'	4300 MSA ARP	
MISSED APCH: Direct to DF585 (MAX 220 KT), then climb on course 246° to 5000', then turn LEFT (MAX 220 KT) direct to CHA at 5000' (MAX 250KT).							

RNP Apch Alt Set: hPa (IN on req) Rwy Elev: 13 hPa Trans level: By ATC Trans alt: 5000'
 1. RNP-1 required. 2. Radar required. 3. Baro-VNAV not authorized below -15°C.



DIST to RW25C	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
ALTITUDE	1100'	1450'	1790'	2130'	2470'	2800'	3140'	3480'	3820'



Gnd speed-Kts	70	90	100	120	140	160	ALSIF-II REIL PAPI	D → DF585 220 KT MAX
Glide Path Angle 3.20°	396	510	566	679	793	906		
MAP at RW25C								
DF530 to MAP	10.6	9:05	7:04	6:22	5:18	4:33	3:59	

Std/State		LPV				STRAIGHT-IN LANDING LNAV/VNAV				LNAV CDFA			
DA(H) 563' (200')		A: 694' (331')		C: 709' (346')		B: 703' (340')		D: 716' (353')		DA/MDA(H) 790' (427')			
A		TDZ or CL out	ALS out	TDZ or CL out	ALS out	TDZ or CL out	ALS out	TDZ or CL out	ALS out				
B	R550m	R550m	R1200m	R800m	R1500m	R1300m						R1500m	
C													
D				R900m	R1600m								R2000m

1 LPV (VAL 35m). 2 R750m when a Flight Director or Autopilot or HUDLS to DA is not used.
 3 VNAV DA(H) in lieu of MDA(H) depends on operator policy.

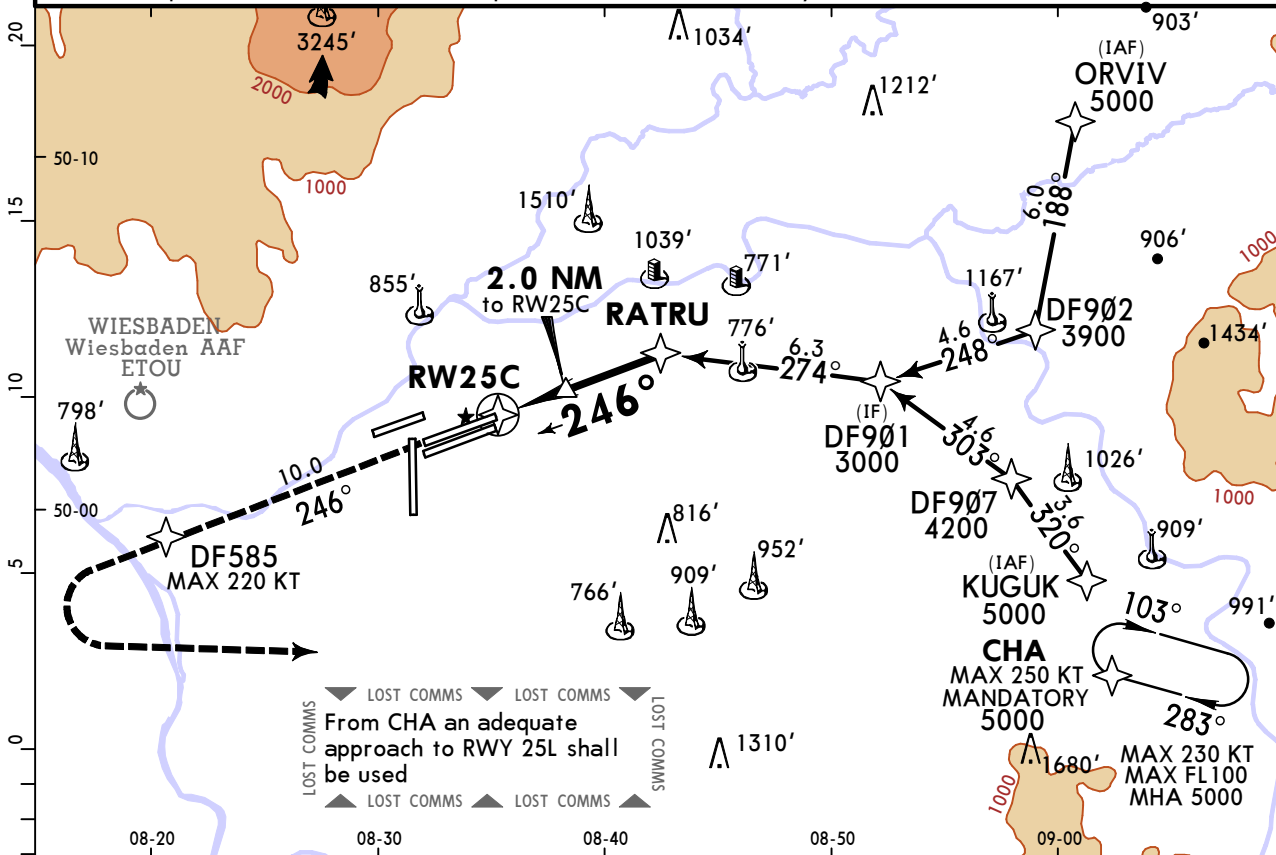
EDDF/FRA
FRANKFURT/MAIN

26 APR 24 (12-14)

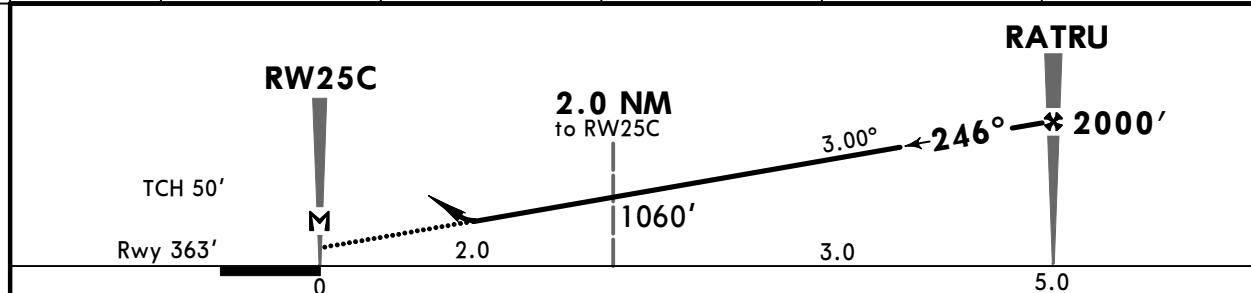
JEPPESSEN FRANKFURT/MAIN, GERMANY
RNP X Rwy 25C

D-ATIS Arrival	LANGEN Radar (APP) North South		*FRANKFURT Director (APP)		FRANKFURT Tower		*Ground
118.030	120.805	125.355	118.505	127.280	118.780	119.905	121.805
RNAV	Final Apch Crs 246°	RATRU 2000' (1637')		DA/MDA(H) Refer to Minimums	Apt Elev 363' Rwy 363'	4300 MSA ARP	
MISSED APCH: Direct to DF585 (MAX 220 KT), then climb on course 246° to 5000', then turn LEFT (MAX 220 KT) direct to CHA at 5000' (MAX 250KT).							

RNP Apch Alt Set: hPa (IN on req) Rwy Elev: 13 hPa Trans level: By ATC Trans alt: 5000'
1. Radar required. 2. In case of missed apch inform ATC immediately.



DIST to RW25C	1.0	2.0	3.0	4.0	5.0
ALTITUDE	740'	1050'	1370'	1690'	1920'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI 	DF585 220 KT MAX
Descent Angle 3.00°	372	478	531	637	743	849		
MAP at RW25C								
RATRU to MAP	5.0	4:17	3:20	3:00	2:30	2:09		

Std/State STRAIGHT-IN LANDING
LNAV CDFA
DA/MDA(H) AB: **790'**(427') CD: **840'**(477')
TDZ or CL out ALS out

A	R1300m	R1500m
B		
C	R1500m	R2200m
D		

1 VNAV DA(H) in lieu of MDA(H) depends on operator policy.
CHANGES: Recommended altitudes, Ground Speed Box. © JEPPESEN, 2011, 2024. ALL RIGHTS RESERVED.

EDDF/FRA FRANKFURT/MAIN

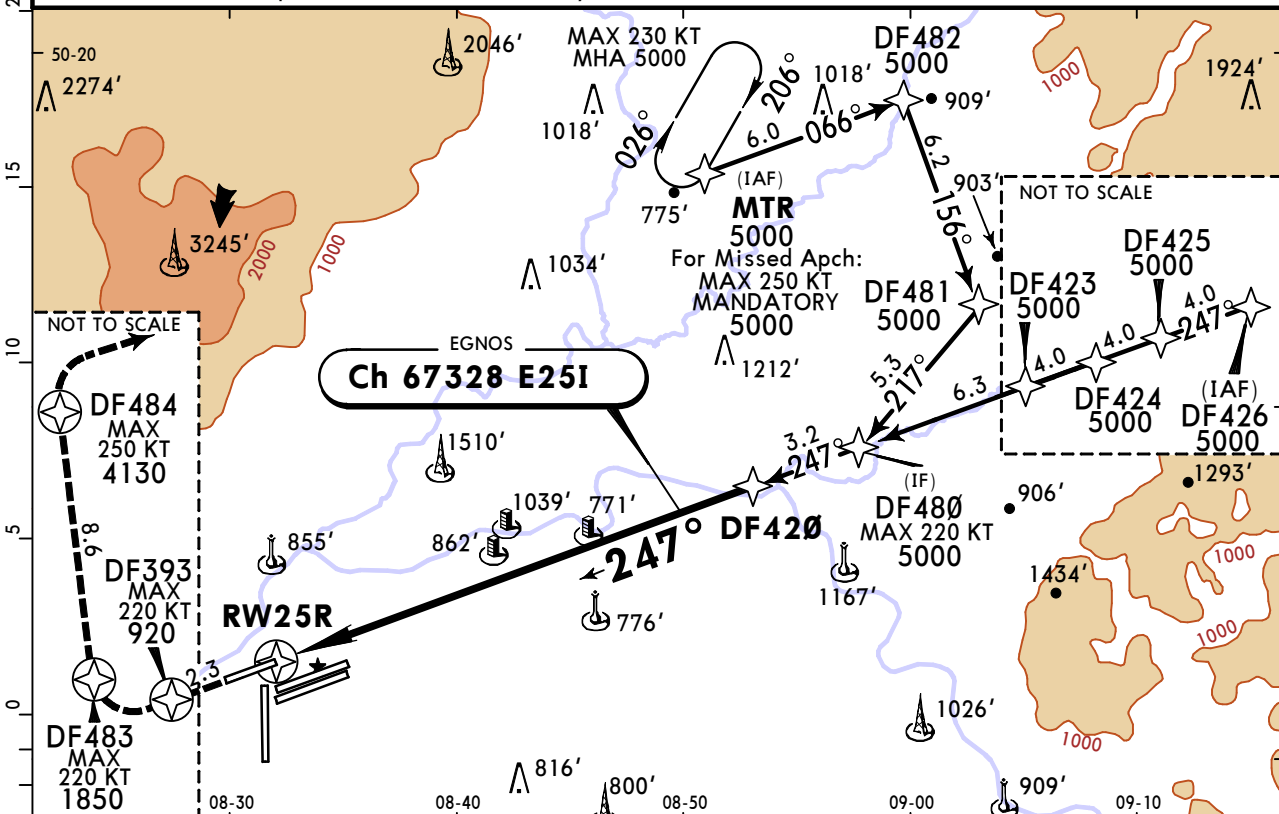
18 AUG 23 **12-15**

JEPPESSEN FRANKFURT/MAIN, GERMANY RNP Z Rwy 25R

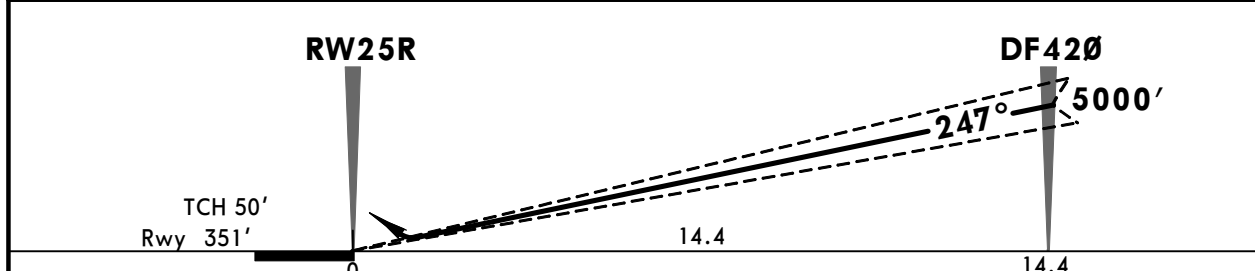
D-ATIS Arrival 118.030	LANGEN Radar (APP) North 120.805	South 125.355	*FRANKFURT Director (APP) 118.505 127.280	*FRANKFURT Tower 136.5	*Ground 121.805
EGNOS Ch 67328 E251	Final Apch Crs 247°	DF420 5000' (4649')	LPV DA(H) Refer to Minimums	Apt Elev 363' Rwy 351'	4300 MSA ARP
MISSED APCH: Direct to DF393 at or above 920' (MAX 220 KT), turn RIGHT direct to DF483 at or above 1850' (MAX 220 KT), turn RIGHT direct to DF484 at or above 4130' (MAX 250 KT), turn RIGHT direct to MTR at 5000'. Missed apch requires a min climb of 4.3% (261'/NM) to 4130'.					

RNP Apch Alt Set: hPa (IN on req) Rwy Elev: 13 hPa Trans level: By ATC Trans alt: 5000'

1. RNP-1 required. 2. Radar required. 3. Parallel independent operation may be in force.
4. In case of missed apch inform ATC immediatley.



DIST to RW25R	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0
ALTITUDE	1040'	1360'	1680'	2000'	2320'	2640'	2950'	3270'	3590'	3910'	4230'	4550'	4860'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	DF393	MIN 920'	220 KT MAX
Glide Path Angle	3.00°	372	478	531	637	743				

Std/State			STRAIGHT-IN LANDING		
LPV			DA(H) ABC: 551' (200') D: 558' (207')		
TDZ or CL out		ALS out			
A	R550m	R550m	R1200m		
B					
C					
D					

PANS OPS: LPV (VAL 35m). R750m when a Flight Director or Autopilot or HUDLS to DA is not used.

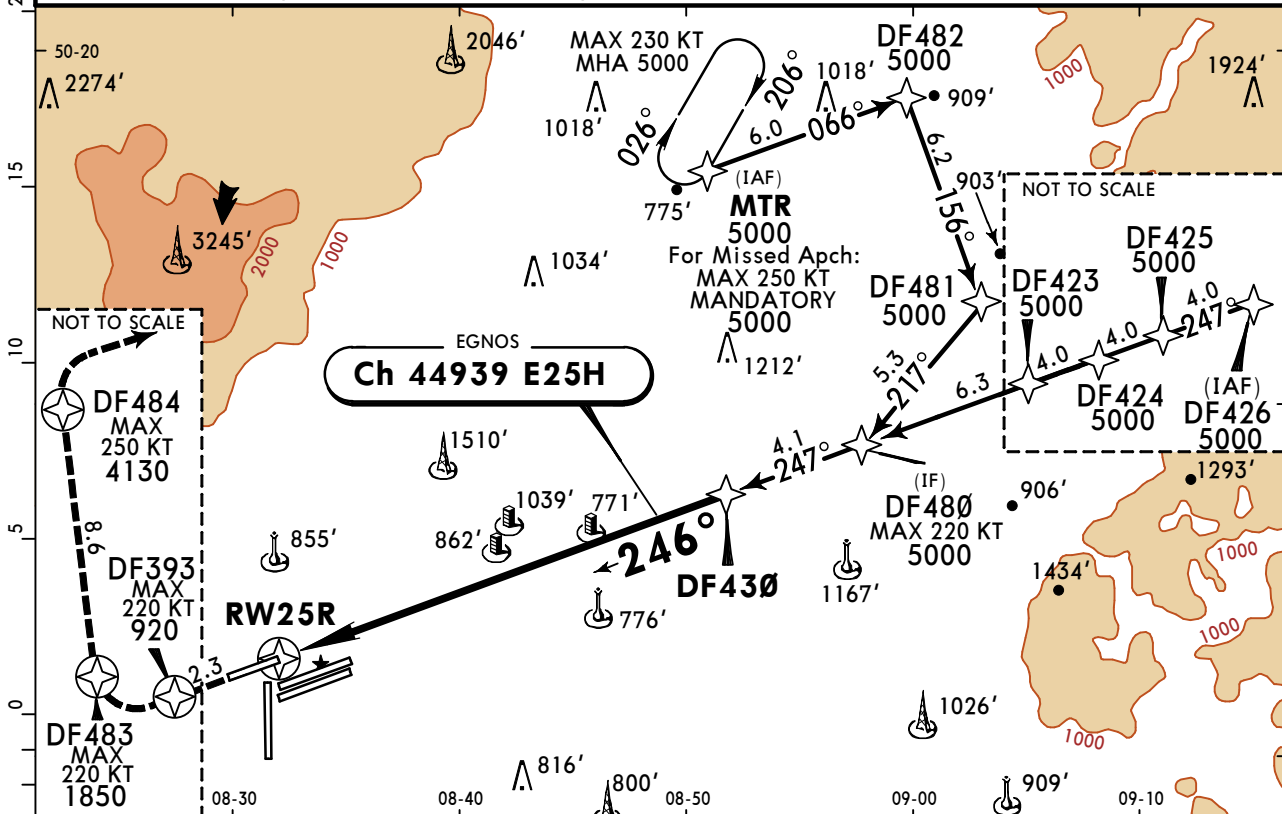
CHANGES: Missed approach. © JEPPESSEN, 2023. ALL RIGHTS RESERVED.

EDDF/FRA FRANKFURT/MAIN

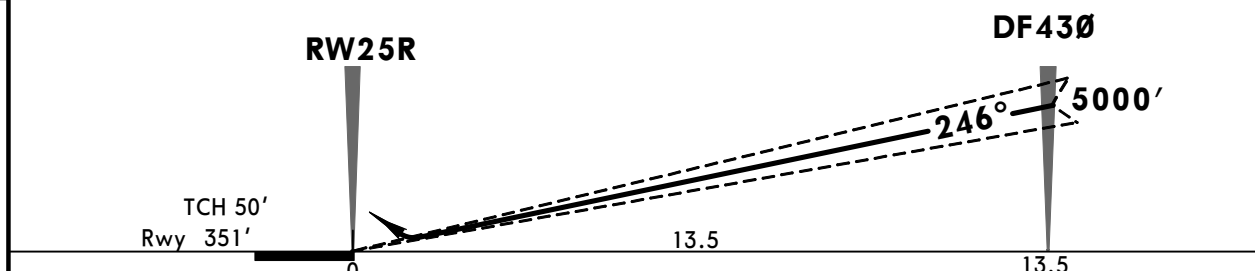
18 AUG 23 **12-16**

JEPPESSEN FRANKFURT/MAIN, GERMANY RNP Y Rwy 25R

D-ATIS Arrival	LANGEN Radar (APP) North South		*FRANKFURT Director (APP)		*FRANKFURT Tower	*Ground
118.030	120.805	125.355	118.505	127.280	136.5	121.805
EGNOS Ch 44939 E25H	Final Apch Crs 246°	DF430 5000' (4649')	LPV DA(H) Refer to Minimums	Apt Elev 363' Rwy 351'	4300 MSA ARP	
MISSED APCH: Direct to DF393 at or above 920' (MAX 220 KT), turn RIGHT direct to DF483 at or above 1850' (MAX 220 KT), turn RIGHT direct to DF484 at or above 4130' (MAX 250 KT), turn RIGHT direct to MTR at 5000'. Missed apch requires a min climb of 4.3% (261'/NM) to 4130'.						
RNP Apch	Alt Set: hPa (IN on req)	Rwy Elev: 13 hPa	Trans level: By ATC	Trans alt: 5000'		
1. RNP-1 required. 2. Radar required. 3. Parallel independent operation may be in force. 4. In case of missed apch inform ATC immediately.						



DIST to RW25R	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0
ALTITUDE	1090'	1430'	1770'	2100'	2440'	2780'	3120'	3460'	3800'	4140'	4480'	4820'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	➔	DF393	MIN 920'	220 KT MAX
Glide Path Angle	3.20°	396	510	566	679	793					

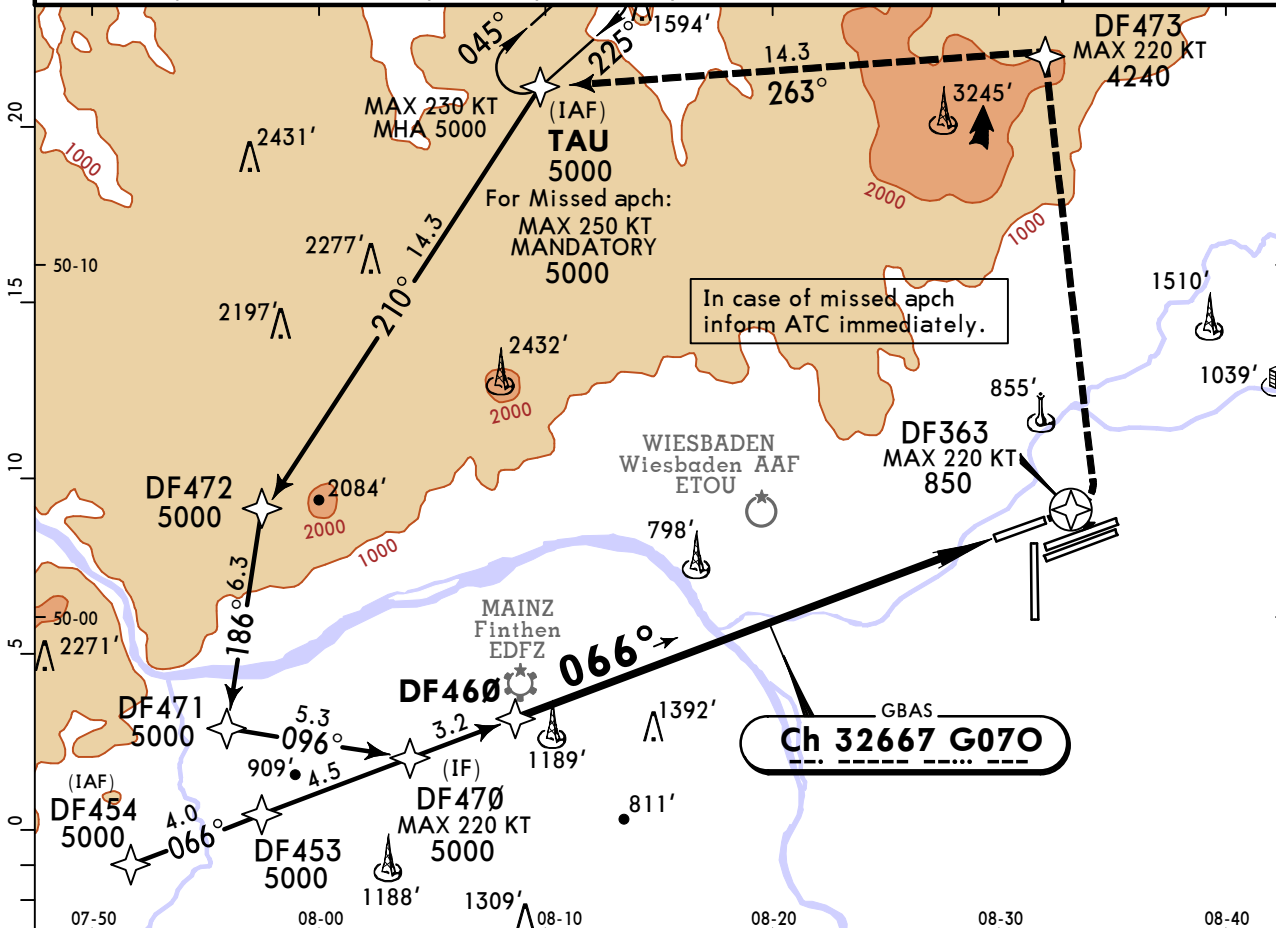
Std/State			STRAIGHT-IN LANDING		
LPV			DA(H) ABC: 551'(200') D: 558'(207')		
TDZ or CL out		ALS out			
A	R550m		R550m		R1200m
B					
C					
D					
PANS OPS 1 LPV (VAL 35m). 2 R750m when a Flight Director or Autopilot or HUDLS to DA is not used.					

EDDF/FRA FRANKFURT/MAIN

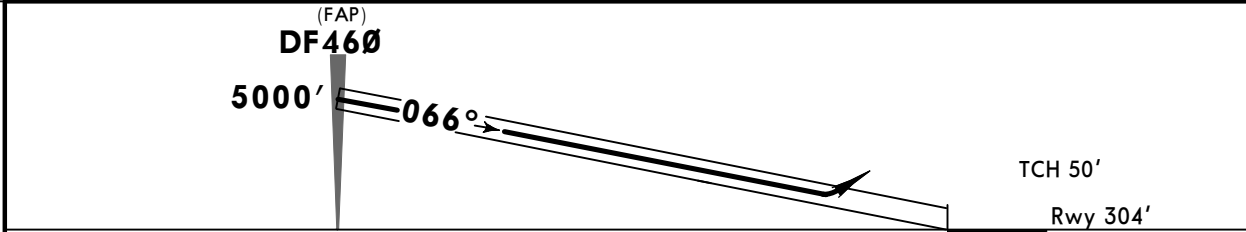
7 JUL 23 **12-40** Eff 13 Jul

JEPPesen FRANKFURT/MAIN, GERMANY GLS Z Rwy 07L

D-ATIS Arrival	LANGEN Radar (APP) North	South	*FRANKFURT Director (APP)	*FRANKFURT Tower	*Ground
118.030	120.805	125.355	118.505 127.280	136.5	121.805
GBAS Ch 32667 G070	Final Apch Crs 066°	DF460 5000' (4696')	DA(H) Refer to Minimums	Apt Elev 363' Rwy 304'	4300 MSA ARP
MISSED APCH: Direct to DF363 at or above 850' (MAX 220 KT), turn LEFT direct to DF473 at or above 4240' (MAX 220 KT), then to TAU VOR at 5000' (MAX 250 KT). Missed apch requires a min climb of 4.1% (250'/NM) to 3500'.					
RNP Apch	Alt Set: hPa (IN on req)	Rwy Elev: 11 hPa	Trans level: By ATC	Trans alt: 5000'	
1. Radar required. 2. Parallel independent operation may be in force.					



DIST to THR	14.0	13.0	12.0	11.0	10.0	9.0	8.0	7.0	6.0	5.0	4.0	3.0	2.0
ALTITUDE	4820'	4500'	4180'	3860'	3540'	3220'	2910'	2590'	2270'	1950'	1630'	1310'	1000'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	D →	DF363	MIN 850'	MAX 220 KT
Glide Path Angle	3.00°	372	478	531	637	743					

Std/State STRAIGHT-IN LANDING
GLS

DA(H) ABC: **504'**(200') D: **512'**(208')

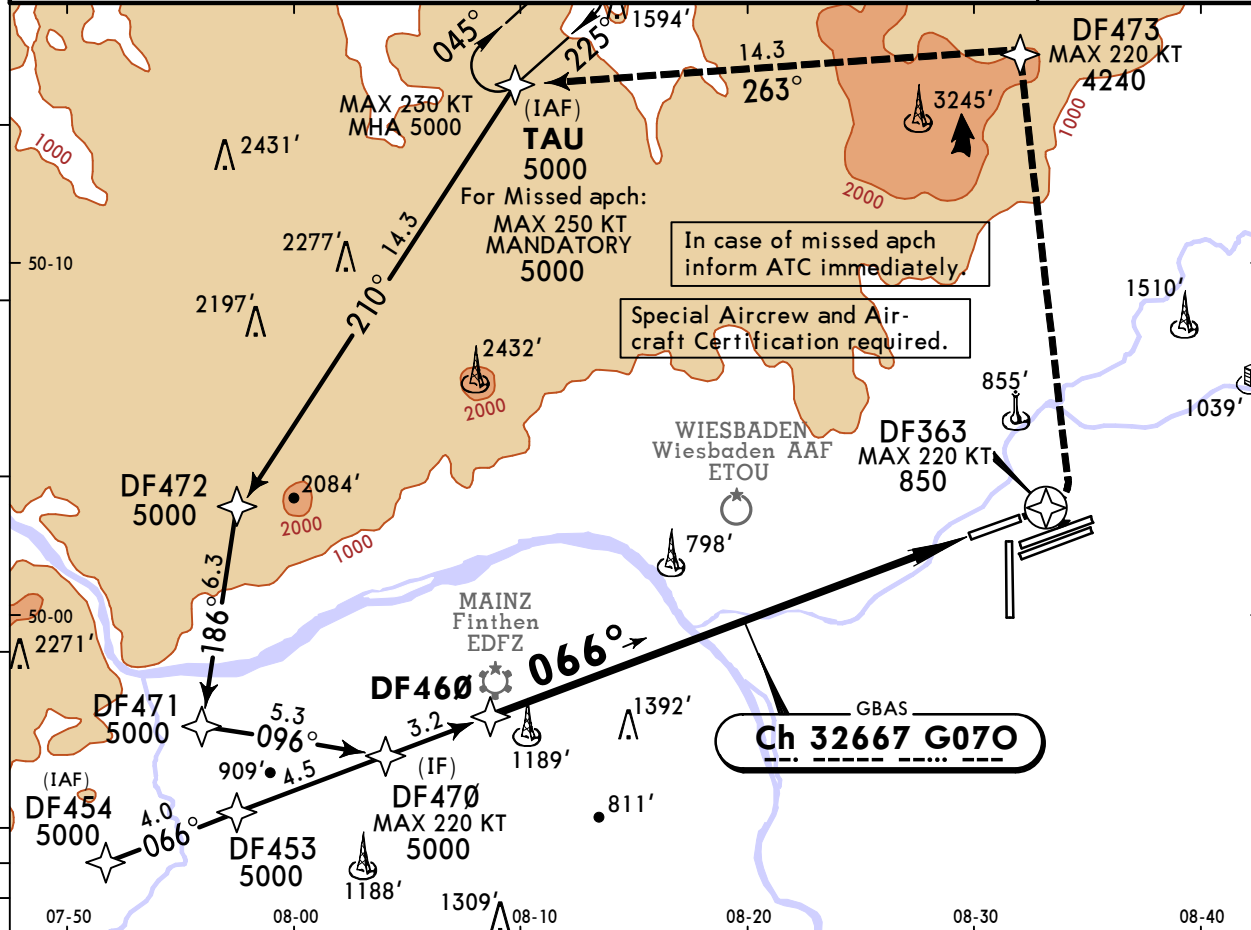
TDZ or CL out ALS out

A			
B			
C	R550m	R550m	R1200m
D	R750m when a Flight Director or Autopilot or HUDLS to DA is not used.		

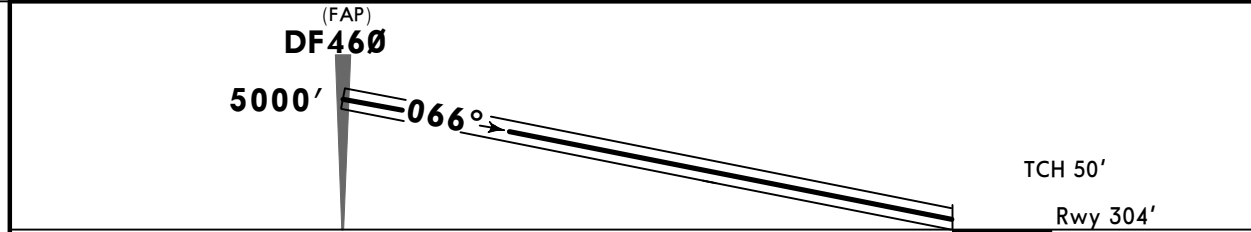
EDDF/FRA FRANKFURT/MAIN

7 JUL 23 **12-40A** **Eff 13 Jul** CAT II GLS Z Rwy 07L

D-ATIS Arrival 118.030	LANGEN Radar (APP) North 120.805	South 125.355	*FRANKFURT Director (APP) 118.505 127.280	*FRANKFURT Tower 136.5	*Ground 121.805
GBAS Ch 32667 G070	Final Apch Crs 066°	DF460 5000' (4696')	CAT II GLS Refer to Minimums	Apt Elev 364' Rwy 304'	4300 MSA ARP
MISSED APCH: Direct to DF363 at or above 850' (MAX 220 KT), turn LEFT direct to DF473 at or above 4240' (MAX 220 KT), then to TAU VOR at 5000' (MAX 250 KT). Missed apch requires a min climb of 4.1% (250'/NM) to 3500'.					
RNP Apch	Alt Set: hPa (IN on req)	Rwy Elev: 11 hPa	Trans level: By ATC	Trans alt: 5000'	



DIST to THR	14.0	13.0	12.0	11.0	10.0	9.0	8.0	7.0	6.0	5.0	4.0	3.0	2.0
ALTITUDE	4820'	4500'	4180'	3860'	3540'	3220'	2910'	2590'	2270'	1950'	1630'	1310'	1000'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	D →	DF363	MIN 850'	MAX 220 KT
Glide Path Angle	3.00°	372	478	531	637	743					

Std/State	STRAIGHT-IN LANDING	
A: RA 99' DA(H) 404'(100')		
B: RA 106' DA(H) 411'(107')		
C: RA 117' DA(H) 422'(118')		
	D: RA 132'	DA(H) 437'(133')

PANS OPS	R300m	R400m
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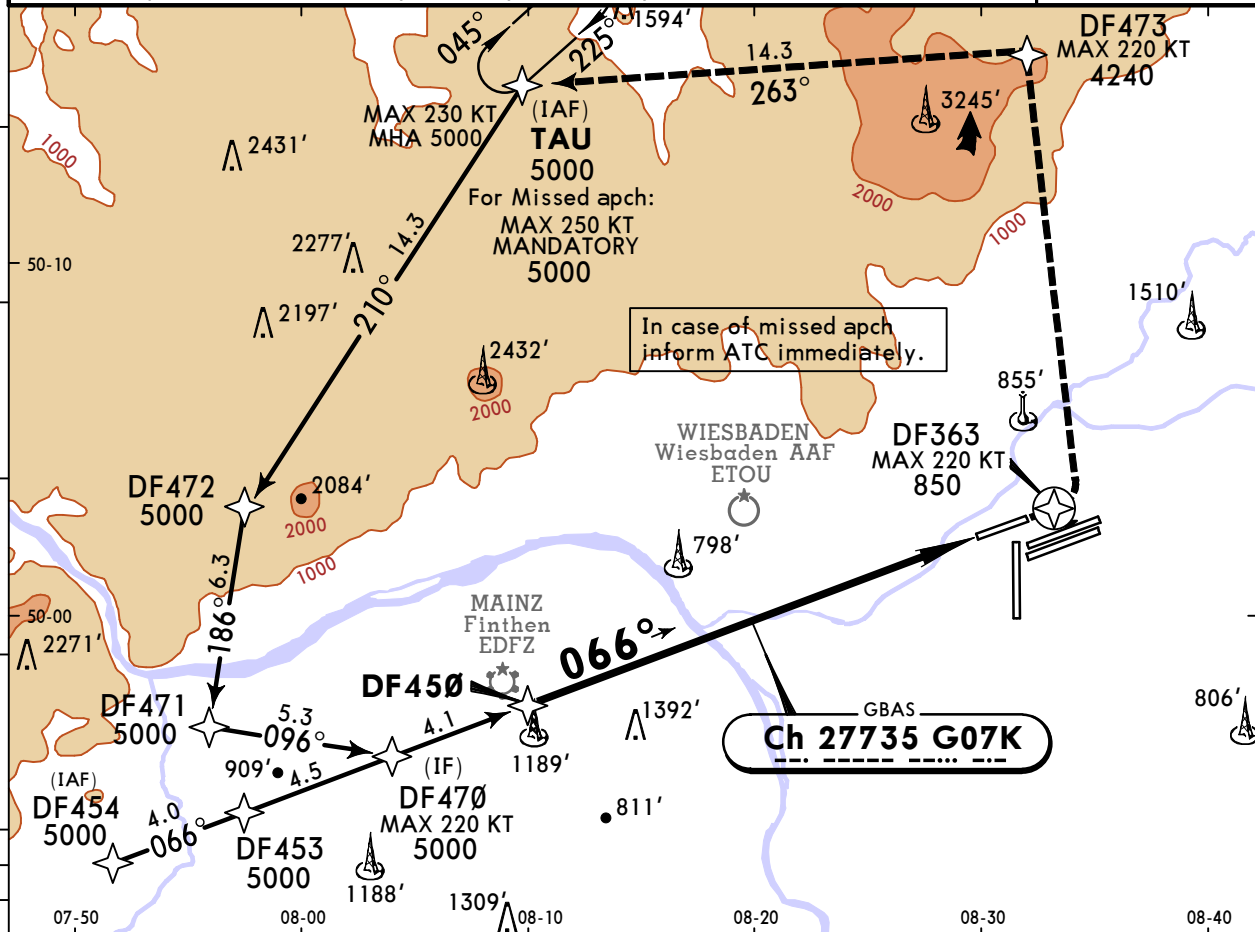
EDDF/FRA
FRANKFURT/MAIN

7 JUL 23

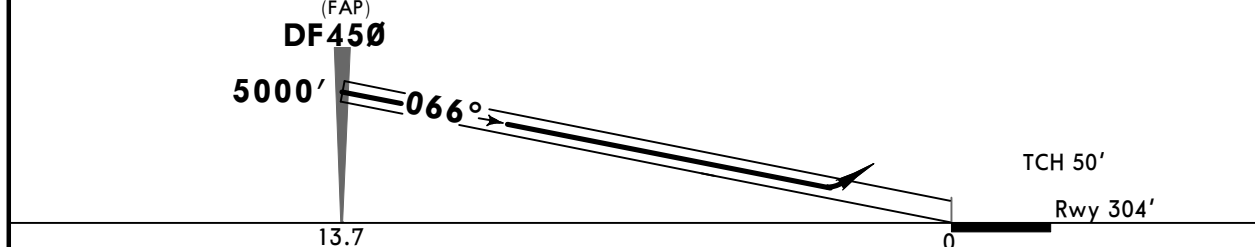
12-41 Eff 13 Jul

JEPPESSEN FRANKFURT/MAIN, GERMANY
GLS Y Rwy 07L

D-ATIS Arrival 118.030	LANGEN Radar (APP) North 120.805	South 125.355	*FRANKFURT Director (APP) 118.505 127.280	*FRANKFURT Tower 136.5	*Ground 121.805
GBAS Ch 27735 G07K	Final Apch Crs 066°	DF450 5000' (4696')	DA(H) Refer to Minimums	Apt Elev 363' Rwy 304'	4300 MSA ARP
MISSED APCH: Direct to DF363 at or above 850' (MAX 220 KT), turn LEFT direct to DF473 at or above 4240' (MAX 220 KT), then to TAU VOR at 5000' (MAX 250 KT). Missed apch requires a min climb of 4.1% (250'/NM) to 3500'.					
RNP Apch	Alt Set: hPa (IN on req)	Rwy Elev: 11 hPa	Trans level: By ATC	Trans alt: 5000'	



DIST to THR	13.0	12.0	11.0	10.0	9.0	8.0	7.0	6.0	5.0	4.0	3.0	2.0
ALTITUDE	4780'	4440'	4100'	3760'	3420'	3080'	2740'	2400'	2060'	1720'	1380'	1040'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	D →	DF363	MIN 850'	MAX 220 KT
Glide Path Angle	3.20°	396	510	566	679	793					

Std/State STRAIGHT-IN LANDING
GLS
DA(H) ABC: **504'** (200') D: **512'** (208')
TDZ or CL out ALS out

A			
B	R550m	R550m	R1200m
C			
D			

R750m when a Flight Director or Autopilot or HUDLS to DA is not used.

EDDF/FRA FRANKFURT/MAIN

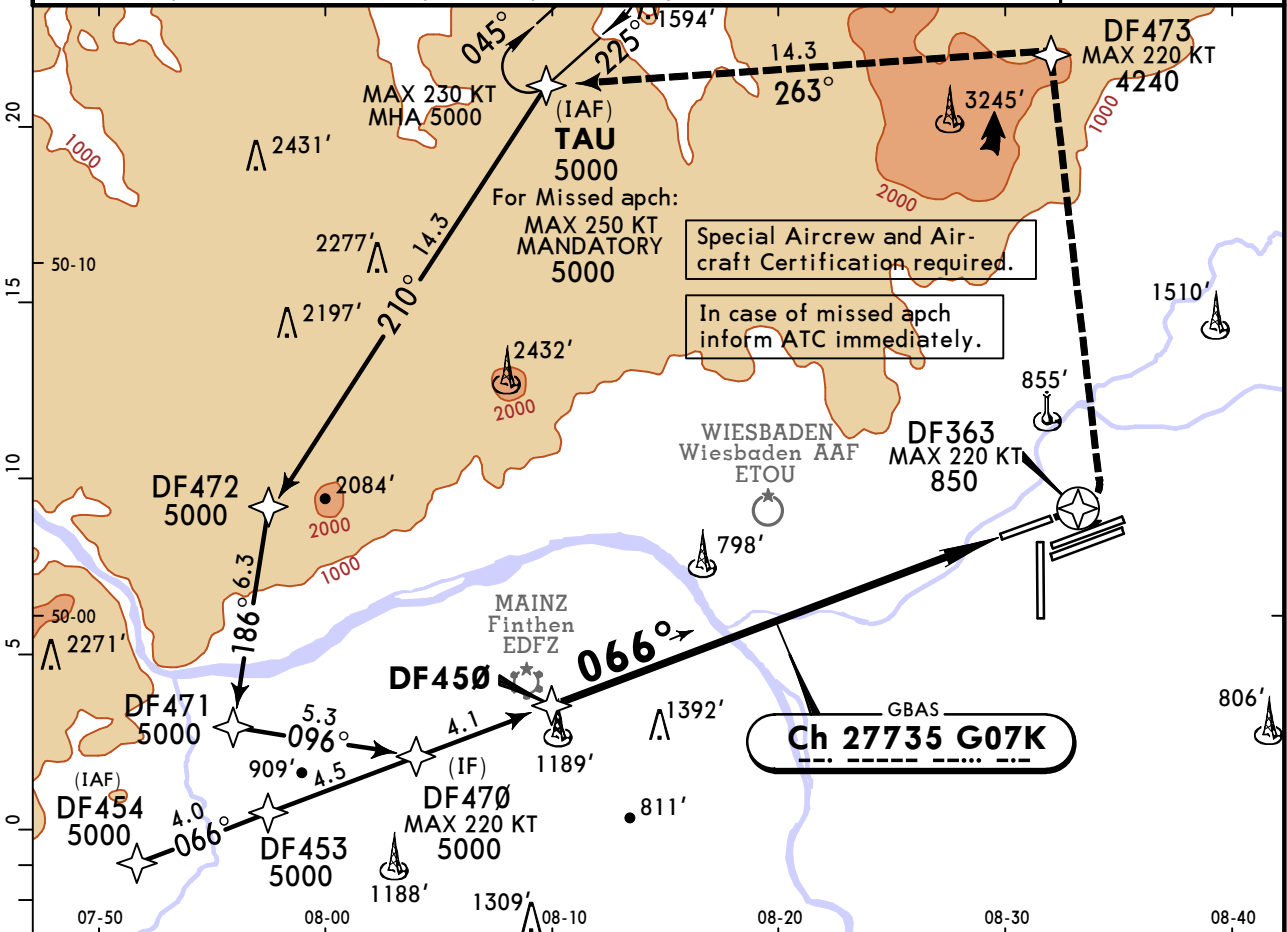
JEPPESEN FRANKFURT/MAIN, GERMANY

CAT II GLS Y Rwy 07L

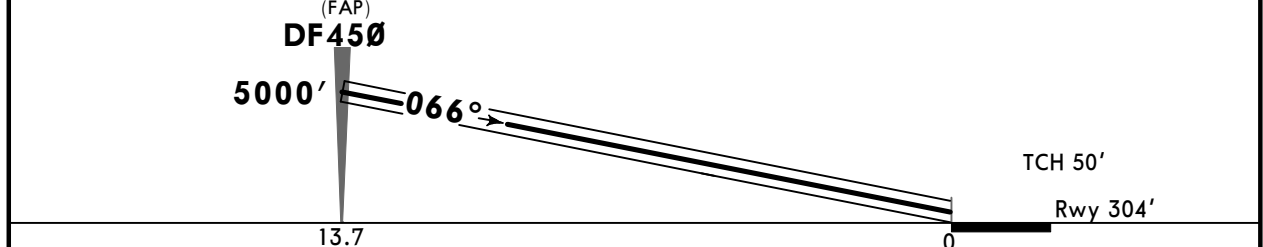
7 JUL 23
Eff 13 Jul

12-41A

D-ATIS Arrival	LANGEN Radar (APP) North	LANGEN Radar (APP) South	*FRANKFURT Director (APP)	*FRANKFURT Tower	*Ground
118.030	120.805	125.355	118.505 127.280	136.5	121.805
GBAS Ch 27735 G07K	Final Apch Crs 066°	DF450 5000' (4696')	CAT II GLS Refer to Minimums	Apt Elev 363' Rwy 304'	4300 MSA ARP
MISSED APCH: Direct to DF363 at or above 850' (MAX 220 KT), turn LEFT direct to DF473 at or above 4240' (MAX 220 KT), then to TAU VOR at 5000' (MAX 250 KT). Missed apch requires a min climb of 4.1% (250'/NM) to 3500'.					
RNP Apch Alt Set: hPa (IN on req) Rwy Elev: 11 hPa Trans level: By ATC Trans alt: 5000' 1. Radar required. 2. Parallel independent operation may be in force.					



DIST to THR	13.0	12.0	11.0	10.0	9.0	8.0	7.0	6.0	5.0	4.0	3.0	2.0
ALTITUDE	4780'	4440'	4100'	3760'	3420'	3080'	2740'	2400'	2060'	1720'	1380'	1040'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	D →	DF363	MIN 850'	MAX 220 KT
Glide Path Angle	3.20°	396	510	566	679	793					

Std/State	STRAIGHT-IN LANDING	
A: RA 99' DA(H) 404'(100')		
B: RA 106' DA(H) 411'(107')		
C: RA 117' DA(H) 422'(118')		
	D: RA 132' DA(H) 437'(133')	

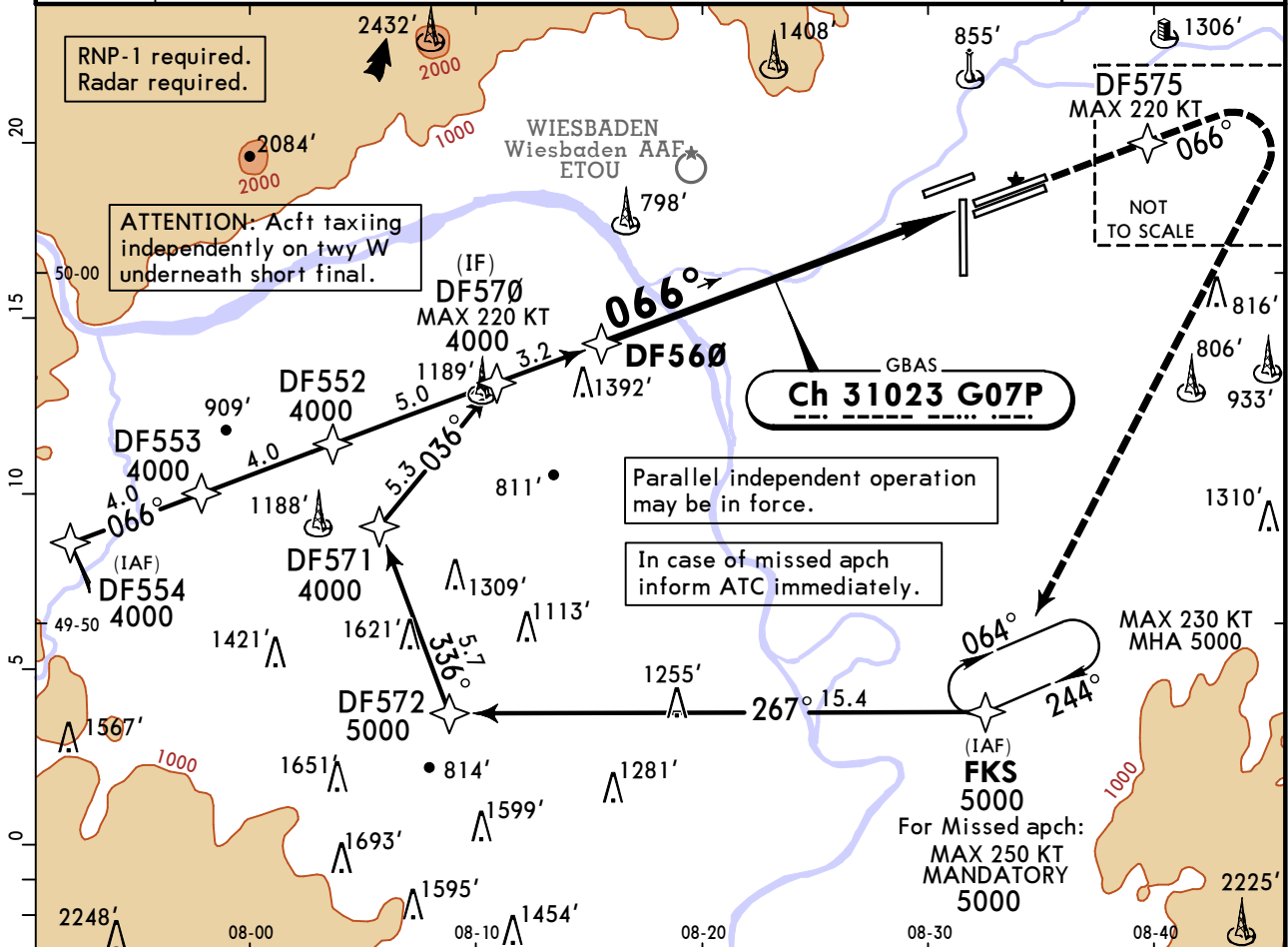
PANS OPS	R300m	R400m
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EDDF/FRA FRANKFURT/MAIN

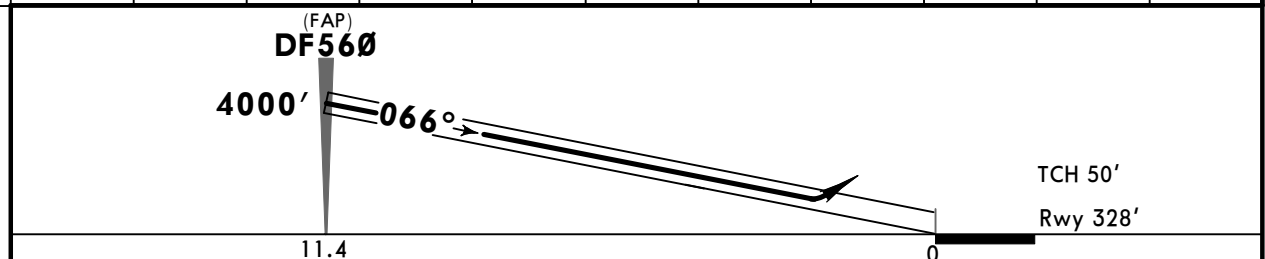
JEPPesen FRANKFURT/MAIN, GERMANY GLS Z Rwy 07C

7 JUL 23 (12-42) Eff 13 Jul

D-ATIS Arrival	LANGEN Radar (APP) North South		*FRANKFURT Director (APP)		FRANKFURT Tower		*Ground	
118.030	120.805	125.355	118.505	127.280	118.780	119.905	121.805	
GBAS Ch 31023 G07P	Final Apch Crs 066°	DF560 4000' (3672')		DA(H) 528' (200')	Apt Elev 363' Rwy 328'	4300		
MISSED APCH: Direct to DF575 (MAX 220 KT), climb on course 066° to 5000', then turn RIGHT (MAX 220 KT) direct to FKS at 5000' (MAX 250 KT).								
RNP Apch	Alt Set: hPa (IN on req) Rwy Elev: 12 hPa Trans level: By ATC Trans alt: 5000'						MSA ARP	



DIST to THR	11.0	10.0	9.0	8.0	7.0	6.0	5.0	4.0	3.0	2.0
ALTITUDE	3890'	3570'	3250'	2930'	2610'	2290'	1980'	1660'	1340'	1020'



Gnd speed-Kts	70	90	100	120	140	160	ALSIF-II REIL PAPI	D →	DF575	220 KT MAX
Glide Path Angle	3.00°	372	478	531	637	743				

Std/State	STRAIGHT-IN LANDING	
	GLS	
	DA(H) 528' (200')	
	TDZ or CL out	ALS out

A	R550m	R550m	R1200m
B			
C			
D			

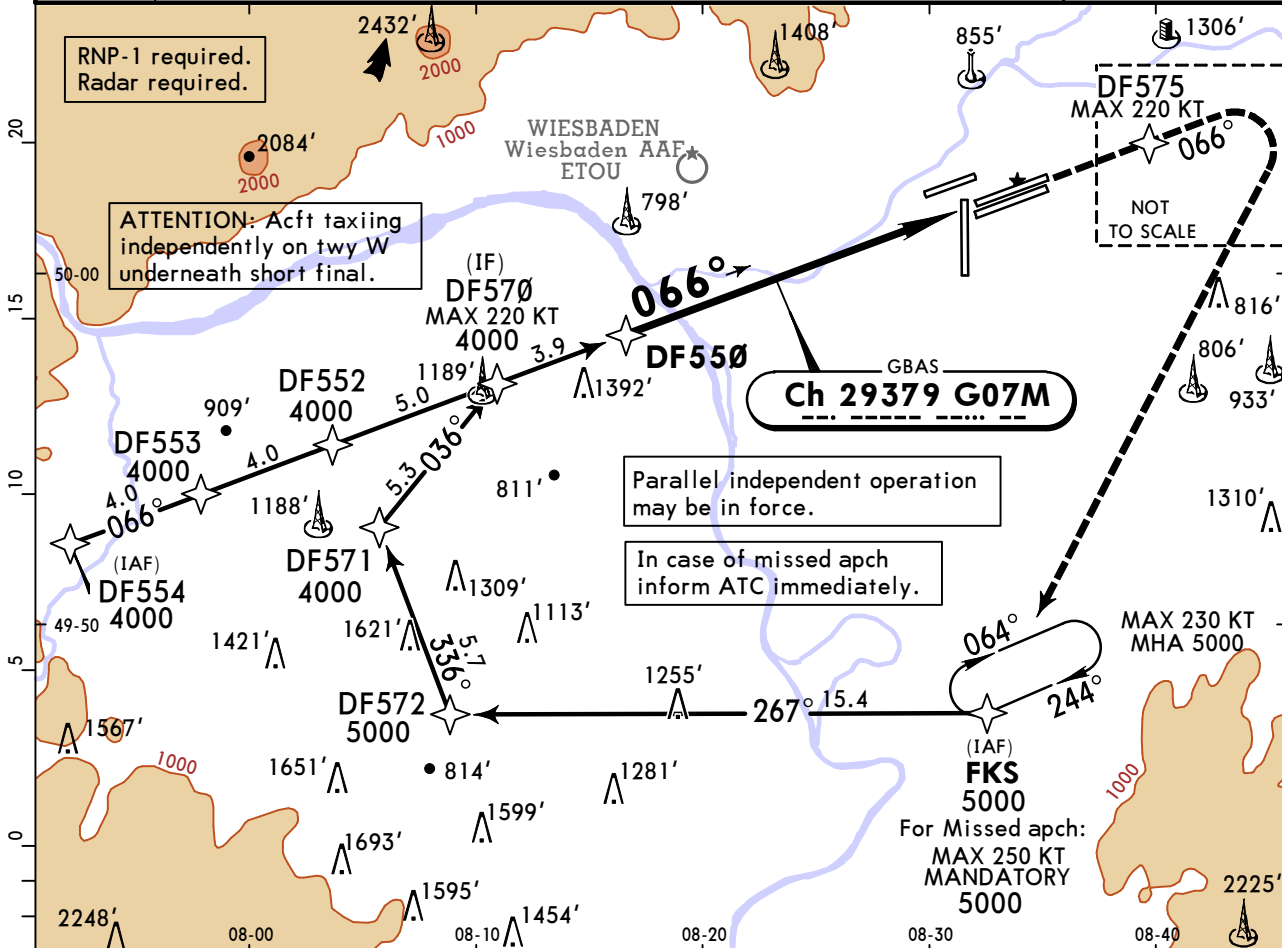
R750m when a Flight Director or Autopilot or HUDLS to DA is not used.

EDDF/FRA FRANKFURT/MAIN

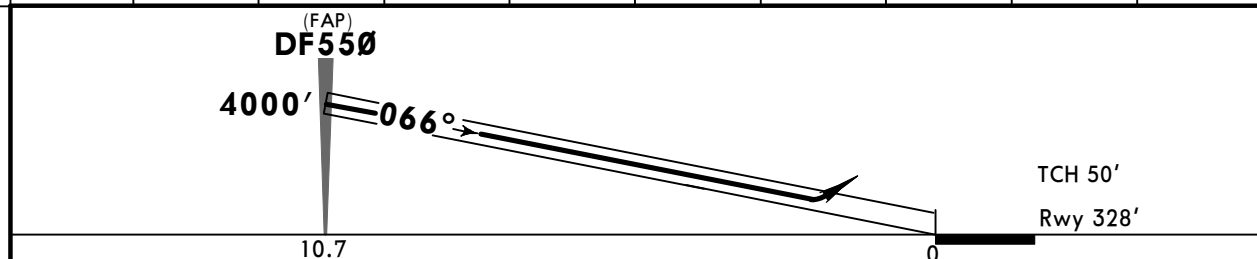
7 JUL 23 **12-43** Eff 13 Jul

JEPPESSEN FRANKFURT/MAIN, GERMANY GLS Y Rwy 07C

D-ATIS Arrival	LANGEN Radar (APP) North	South	*FRANKFURT Director (APP)	FRANKFURT Tower	*Ground
118.030	120.805	125.355	118.505 127.280	118.780 119.905	121.805
GBAS Ch 29379 G07M	Final Apch Crs 066°	DF550 4000' (3672')	DA(H) 528' (200')	Apt Elev 363' Rwy 328'	4300
MISSED APCH: Direct to DF575 (MAX 220 KT), climb on course 066° to 5000', then turn RIGHT (MAX 220 KT) direct to FKS at 5000' (MAX 250 KT).					
RNP Apch	Alt Set: hPa (IN on req) Rwy Elev: 12 hPa Trans level: By ATC Trans alt: 5000'				MSA ARP



DIST to THR	10.0	9.0	8.0	7.0	6.0	5.0	4.0	3.0	2.0
ALTITUDE	3780'	3440'	3100'	2760'	2420'	2080'	1740'	1400'	1060'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	D →	DF575	220 KT MAX
Glide Path Angle	3.20°	396	510	566	679	793				

Std/State	STRAIGHT-IN LANDING	
	GLS	
	DA(H) 528' (200')	
	TDZ or CL out	ALS out

PANS OPS	A	R550m	R550m	R1200m
	B			
	C			
	D			

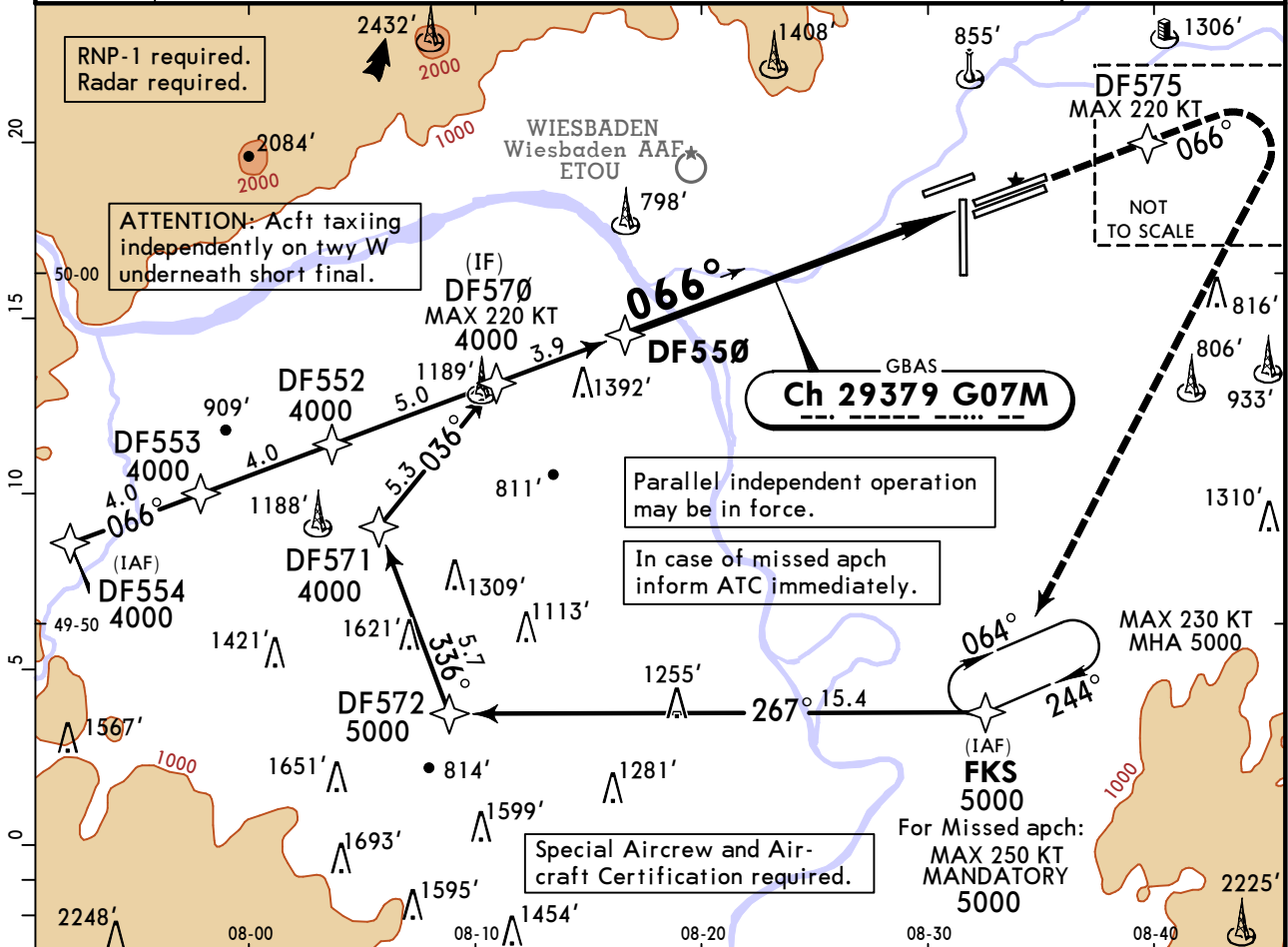
R750m when a Flight Director or Autopilot or HUDLS to DA is not used.

EDDF/FRA FRANKFURT/MAIN

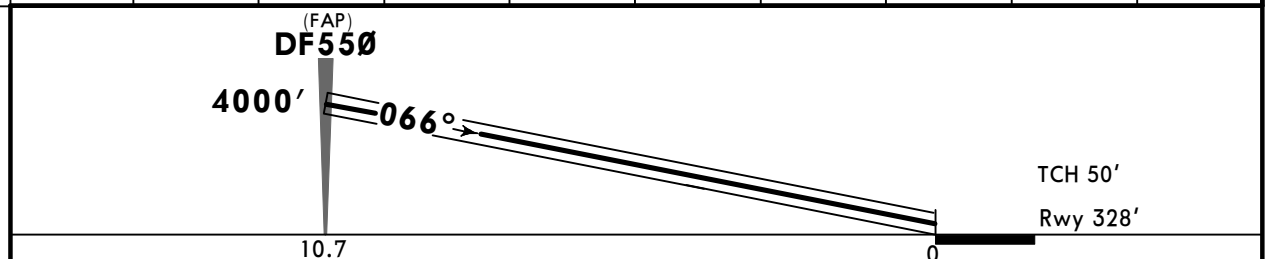
JEPPESEN FRANKFURT/MAIN, GERMANY

7 JUL 23 (12-43A) Eff 13 Jul CAT II GLS Y Rwy 07C

D-ATIS Arrival	LANGEN Radar (APP) North	South	*FRANKFURT Director (APP)	FRANKFURT Tower	*Ground
118.030	120.805	125.355	118.505 127.280	118.780 119.905	121.805
GBAS Ch 29379 G07M	Final Apch Crs 066°	DF550 4000' (3672')	CAT II GLS RA 102' DA(H) 428'(100')	Apt Elev 363' Rwy 328'	4300
MISSED APCH: Direct to DF575 (MAX 220 KT), climb on course 066° to 5000', then turn RIGHT (MAX 220 KT) direct to FKS at 5000' (MAX 250 KT).					
RNP Apch	Alt Set: hPa (IN on req)	Rwy Elev: 12 hPa	Trans level: By ATC	Trans alt: 5000'	MSA ARP



DIST to THR	10.0	9.0	8.0	7.0	6.0	5.0	4.0	3.0	2.0
ALTITUDE	3780'	3440'	3100'	2760'	2420'	2080'	1740'	1400'	1060'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	D →	DF575	220 KT MAX
Glide Path Angle	3.20°	396	510	566	679	906				

Std/State STRAIGHT-IN LANDING

RA 102'
DA(H) 428'(100')

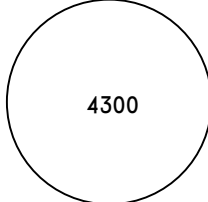
R300m

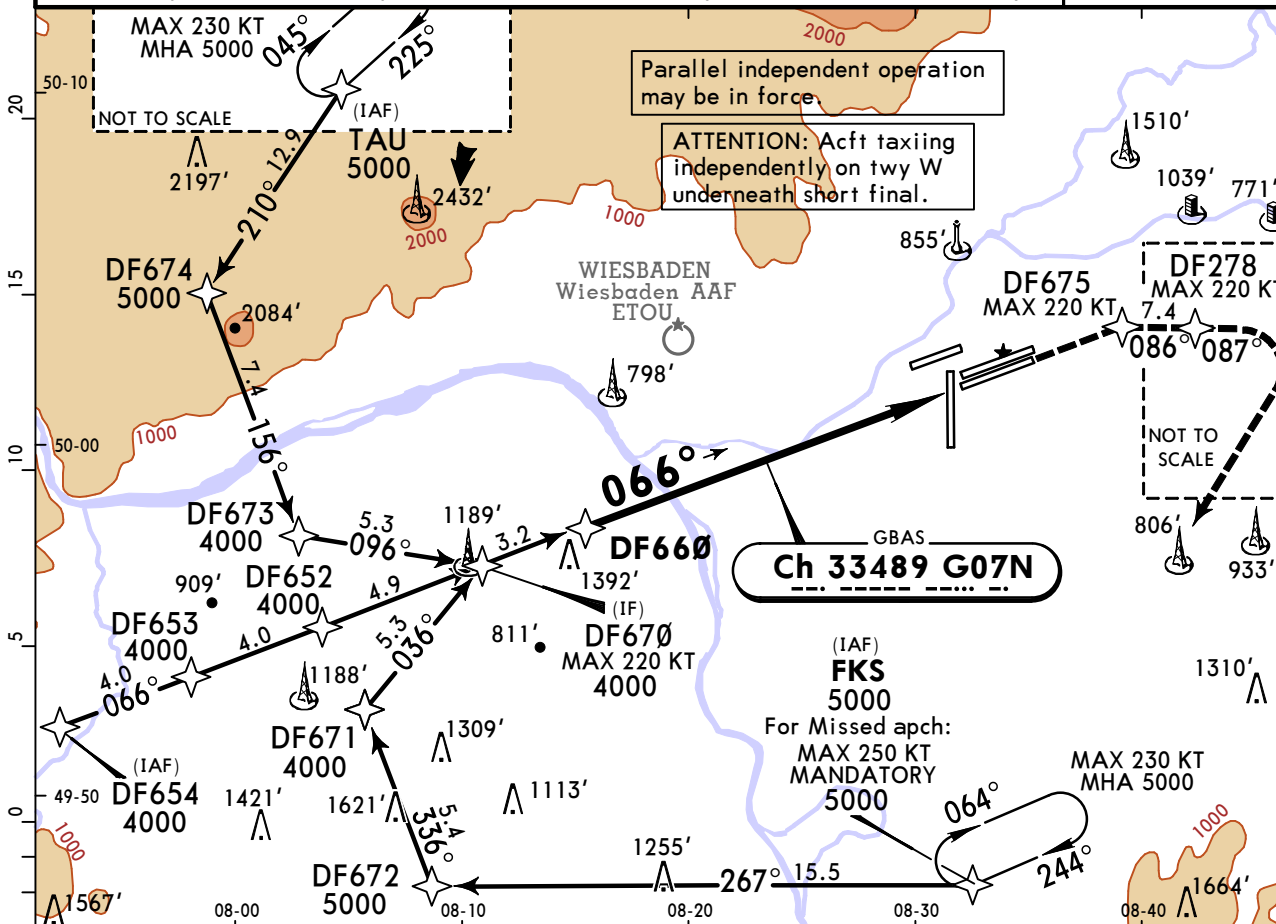
CAT D requires autoland or HUDLS, otherwise: R350m.

EDDF/FRA FRANKFURT/MAIN

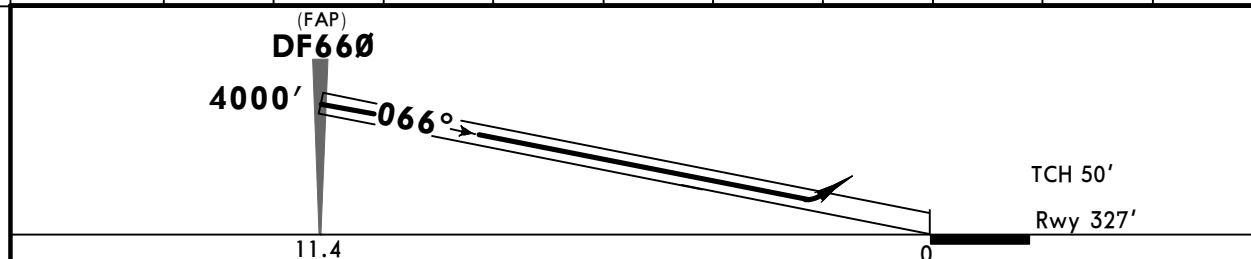
JEPPESEN FRANKFURT/MAIN, GERMANY GLS Z Rwy 07R



7 JUL 23 (12-44) Eff 13 Jul

D-ATIS Arrival	LANGEN Radar (APP) North South		*FRANKFURT Director (APP)		FRANKFURT Tower		*Ground	
118.030	120.805	125.355	118.505	127.280	118.780	119.905	121.805	
GBAS Ch 33489 G07N	Final Apch Crs 066°	DF660 4000' (3673')		DA(H) 527' (200')	Apt Elev 363' Rwy 327'	 4300 MSA ARP		
MISSED APCH: Direct to DF675 (MAX 220 KT), then to DF278 (MAX 220 KT). Climb on course 087° to 5000', then turn RIGHT (MAX 220 KT) direct to FKS at 5000' (MAX 250 KT).								
RNP Apch	Alt Set: hPa (IN on req)	Rwy Elev: 12 hPa	Trans level: By ATC	Trans alt: 5000'				
1. RNP-1 required. 2. Radar required. 3. In case of missed apch inform ATC immediately.								



DIST to THR	11.0	10.0	9.0	8.0	7.0	6.0	5.0	4.0	3.0	2.0
ALTITUDE	3880'	3570'	3250'	2930'	2610'	2290'	1970'	1660'	1340'	1020'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II 	 DF675	220 KT MAX
Glide Path Angle	3.00°	372	478	531	637	743			

Std/State	STRAIGHT-IN LANDING	
	GLS	
	DA(H) 527' (200')	
	TDZ or CL out	ALS out

A	R550m	R550m	R1200m
B			
C			
D			

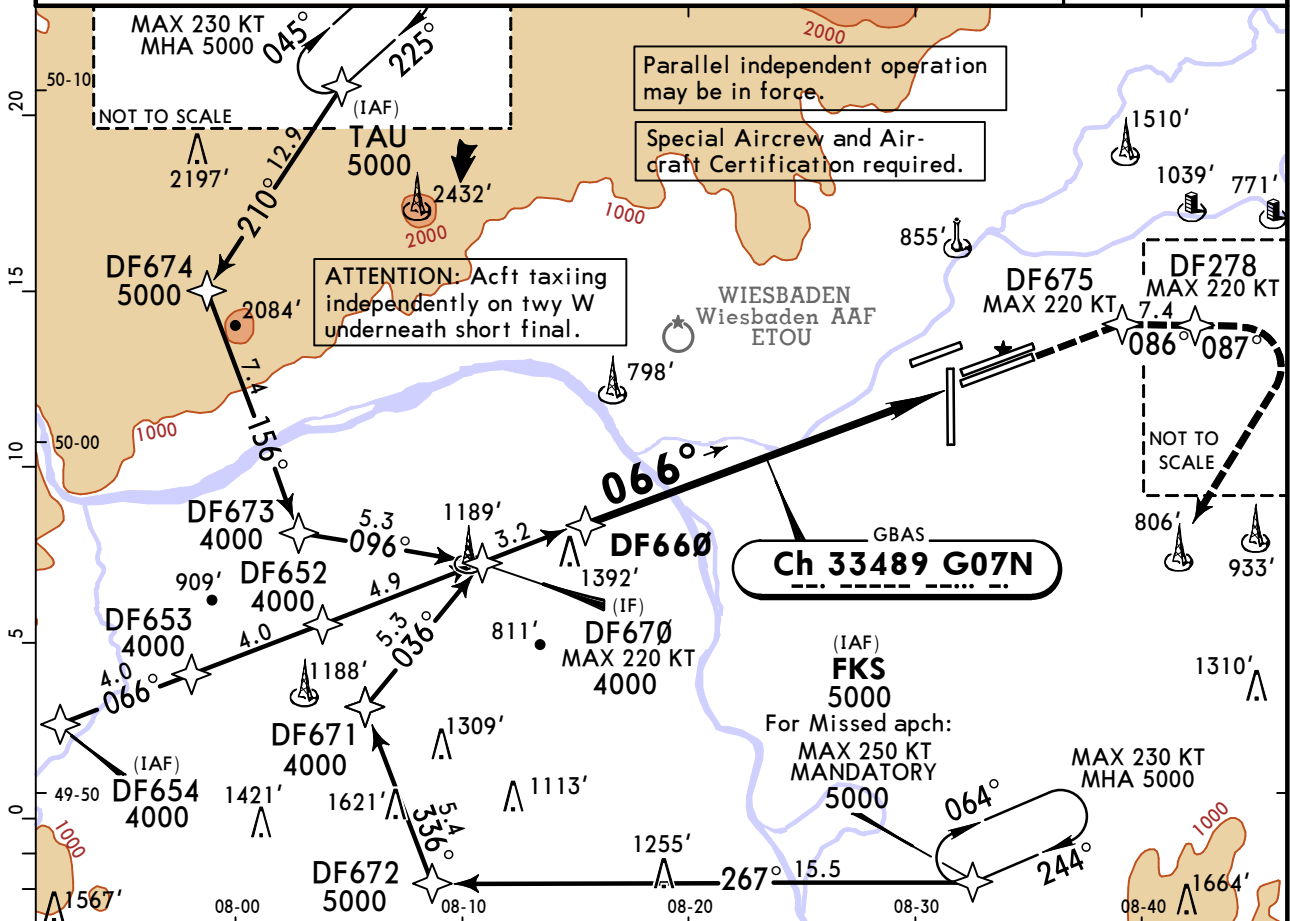
R 750m when a Flight Director or Autopilot or HUDLS to DA is not used.

EDDF/FRA FRANKFURT/MAIN

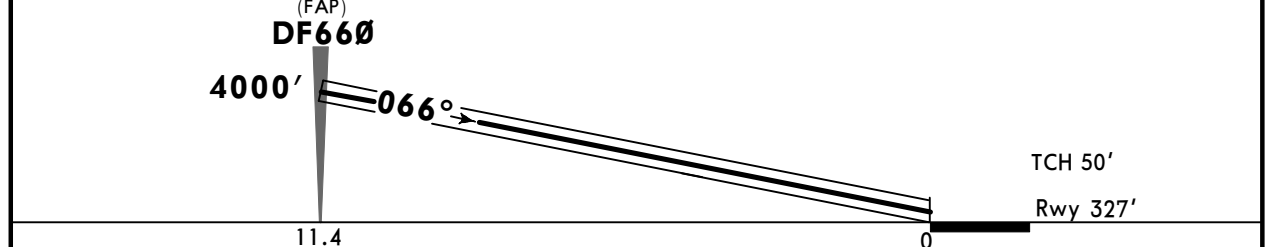
JEPPESEN FRANKFURT/MAIN, GERMANY

7 JUL 23 (12-44A) Eff 13 Jul CAT II GLS Z Rwy 07R

D-ATIS Arrival	LANGEN Radar (APP) North South		*FRANKFURT Director (APP)		FRANKFURT Tower		*Ground
118.030	120.805	125.355	118.505	127.280	118.780	119.905	121.805
GBAS Ch 33489 G07N	Final Apch Crs 066°	DF660 4000' (3673')		CAT II GLS RA 101' DA(H) 427'(100')		Apt Elev 363' Rwy 327'	4300 MSA ARP
MISSED APCH: Direct to DF675 (MAX 220 KT), then to DF278 (MAX 220 KT). Climb on course 087° to 5000', then turn RIGHT (MAX 220 KT) direct to FKS at 5000' (MAX 250 KT).							
RNP Apch Alt Set: hPa (IN on req) Rwy Elev: 12 hPa Trans level: By ATC Trans alt: 5000' 1. RNP-1 required. 2. Radar required. 3. In case of missed apch inform ATC immediately.							



DIST to THR	11.0	10.0	9.0	8.0	7.0	6.0	5.0	4.0	3.0	2.0
ALTITUDE	3880'	3570'	3250'	2930'	2610'	2290'	1970'	1660'	1340'	1020'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	D → DF675 220 KT MAX
Glide Path Angle	3.00°	372	478	531	637	743		

Std/State STRAIGHT-IN LANDING

RA 101'
DA(H) **427'**(100')

R300m

CAT D requires autoland or HUDLS, otherwise: R300m.

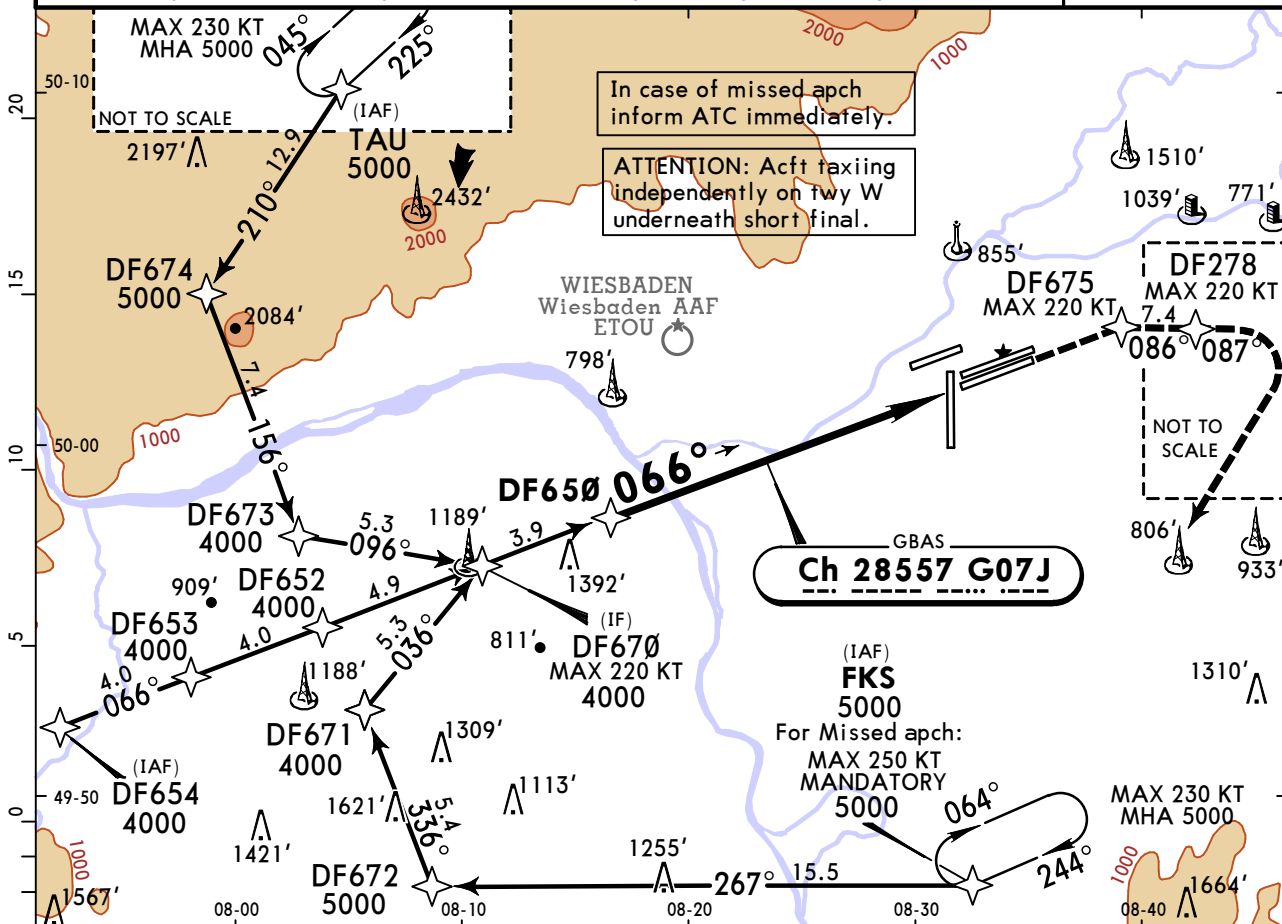
EDDF/FRA FRANKFURT/MAIN

7 JUL 23

12-45 Eff 13 Jul

JEPPesen FRANKFURT/MAIN, GERMANY GLS Y Rwy 07R

D-ATIS Arrival	LANGEN Radar (APP) North South		*FRANKFURT Director (APP)		FRANKFURT Tower		*Ground
118.030	120.805	125.355	118.505	127.280	118.780	119.905	121.805
GBAS Ch 28557 G07J	Final Apch Crs 066°	DF650 4000' (3673')		DA(H) 527' (200')	Apt Elev 363'	Rwy 327'	4300 MSA ARP
MISSED APCH: Direct to DF675 (MAX 220 KT), then to DF278 (MAX 220 KT). Climb on course 087° to 5000', then turn RIGHT (MAX 220 KT) direct to FKS at 5000' (MAX 250 KT).							
RNP Apch Alt Set: hPa (IN on req) Rwy Elev: 12 hPa Trans level: By ATC Trans alt: 5000' 1. RNP-1 required. 2. Radar required. 3. Parallel independent operation may be in force.							



DIST to THR	10.0	9.0	8.0	7.0	6.0	5.0	4.0	3.0	2.0
ALTITUDE	3780'	3440'	3100'	2760'	2420'	2080'	1740'	1400'	1060'



ALSF-II	REIL	PAPI	D →	DF675	220 KT MAX
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Std/State	STRAIGHT-IN LANDING	
	GLS	
	DA(H) 527' (200')	
	TDZ or CL out	ALS out

PANS OPS	A	R550m	R550m	R1200m
	B			
	C			
	D			

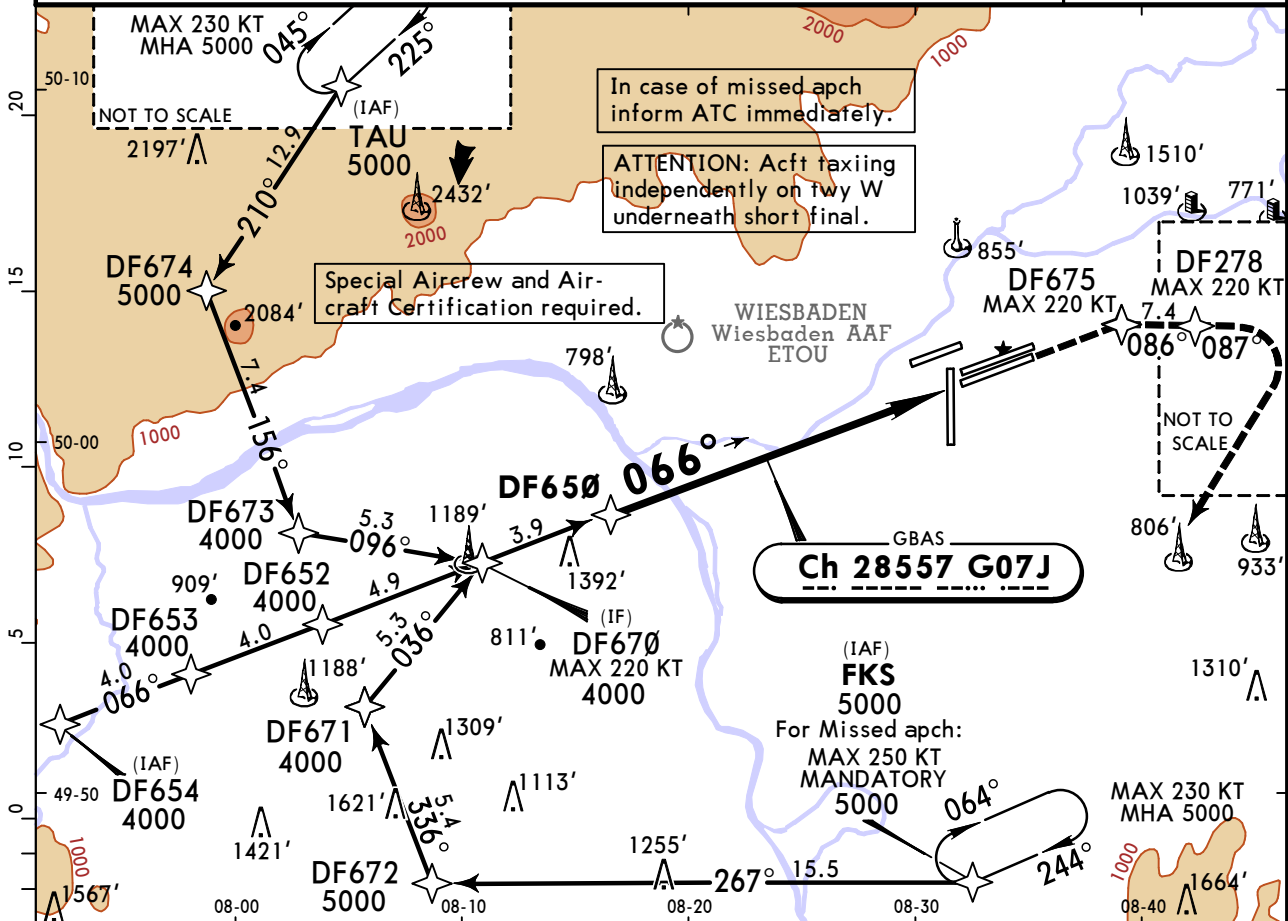
R750m when a Flight Director or Autopilot or HUDLS to DA is not used.

EDDF/FRA FRANKFURT/MAIN

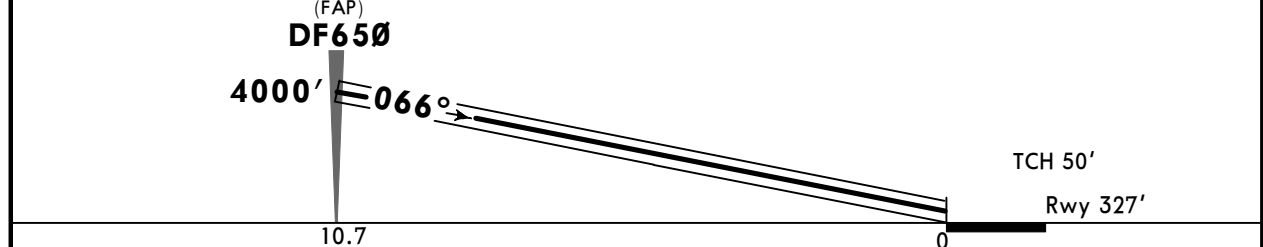
JEPPESEN FRANKFURT/MAIN, GERMANY

7 JUL 23 **12-45A** **Eff 13 Jul** **CAT II GLS Y Rwy 07R**

D-ATIS Arrival	LANGEN Radar (APP) North South		*FRANKFURT Director (APP)		FRANKFURT Tower		*Ground
118.030	120.805	125.355	118.505	127.280	118.780	119.905	121.805
GBAS Ch 28557 G07J	Final Apch Crs 066°	DF650 4000' (3673')		CAT II GLS RA 101' DA(H) 427'(100')	Apt Elev 363'	Rwy 327'	4300 MSA ARP
MISSED APCH: Direct to DF675 (MAX 220 KT), then to DF278 (MAX 220 KT). Climb on course 087° to 5000', then turn RIGHT (MAX 220 KT) direct to FKS at 5000' (MAX 250 KT).							
RNP Apch	Alt Set: hPa (IN on req)	Rwy Elev: 12 hPa	Trans level: By ATC	Trans alt: 5000'			
1. RNP-1 required. 2. Radar required. 3. Parallel independent operation may be in force.							



DIST to THR	10.0	9.0	8.0	7.0	6.0	5.0	4.0	3.0	2.0
ALTITUDE	3780'	3440'	3100'	2760'	2420'	2080'	1740'	1400'	1060'



Gnd speed-Kts	70	90	100	120	140	160	ALSIF-II REIL PAPI	D➔	DF675	220 KT MAX
Glide Path Angle	3.20°	396	510	566	679	793				

Std/State STRAIGHT-IN LANDING

RA 101'
DA(H) **427'(100')**

R300m

CAT D requires autoland or HUDLS, otherwise: R350m.

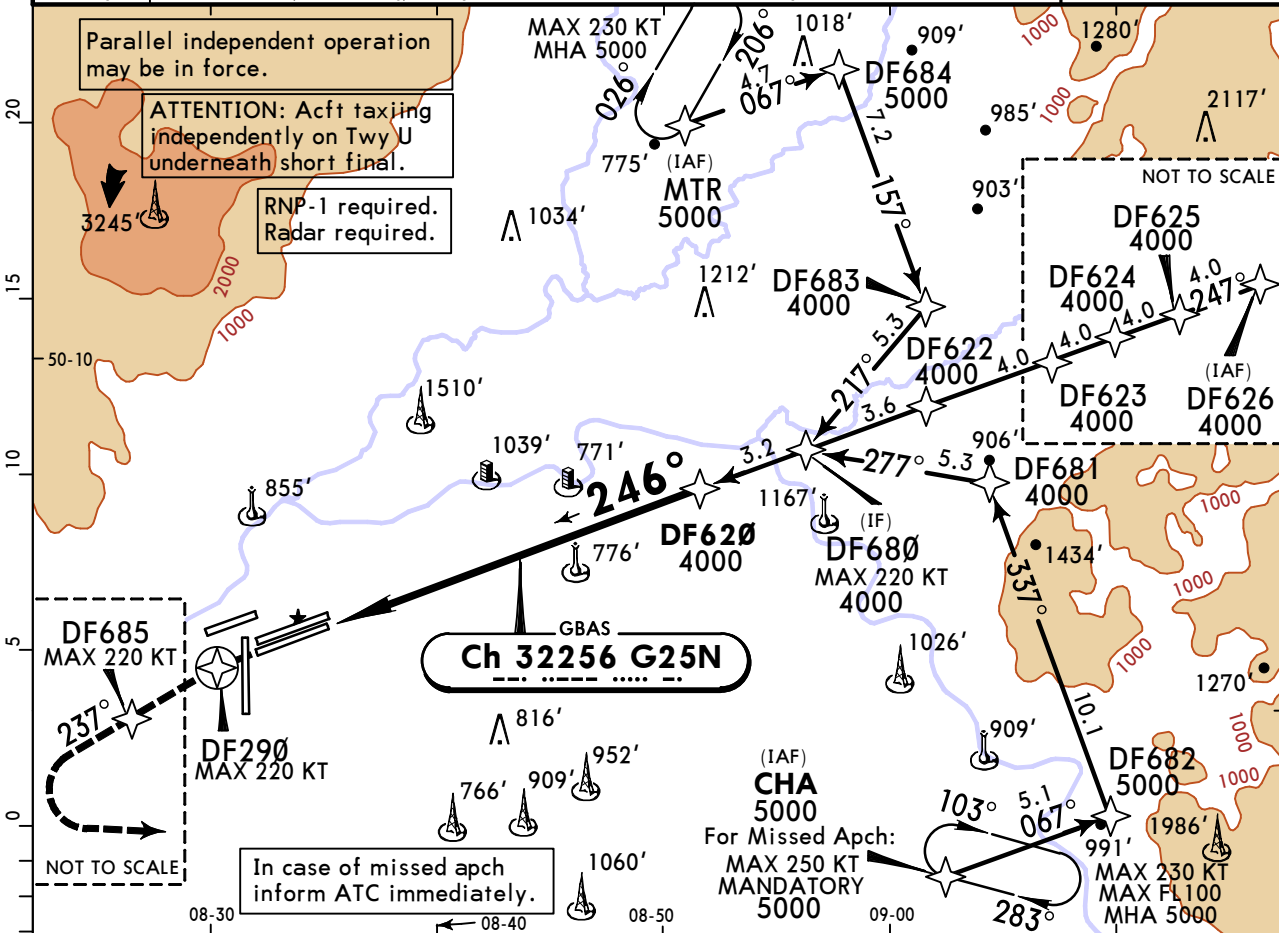
EDDF/FRA FRANKFURT/MAIN



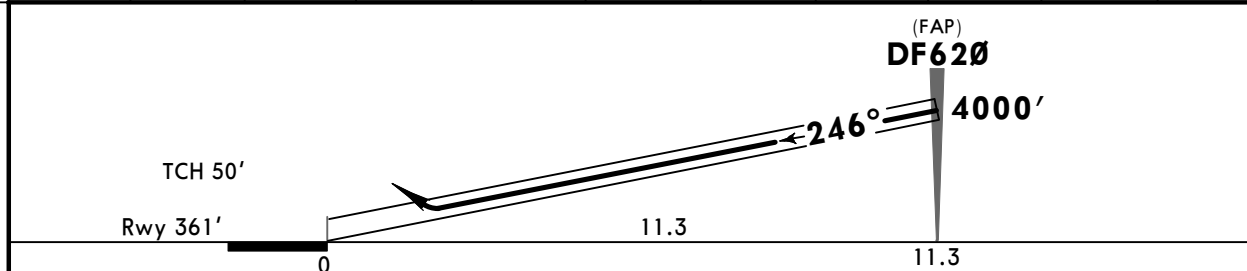
JEPPESSEN FRANKFURT/MAIN, GERMANY GLS Z Rwy 25L

7 JUL 23 **12-46** Eff 13 Jul

D-ATIS Arrival	LANGEN Radar (APP) North South		*FRANKFURT Director (APP)		FRANKFURT Tower		*Ground
118.030	120.805	125.355	118.505	127.280	118.780	119.905	121.805
GBAS Ch 32256 G25N	Final Apch Crs 246°	DF620 4000' (3639')		DA(H) 561' (200')	Apt Elev 363' Rwy 361'		4300
MISSED APCH: Direct to DF290 (MAX 220 KT), then direct to DF685 (MAX 220 KT). Climb on course 237° to 5000', then turn LEFT (MAX 220 KT) direct to CHA at 5000' (MAX 250 KT).							
RNP Apch Alt Set: hPa(IN on req) Rwy Elev: 13 hPa Trans level: By ATC Trans alt: 5000'							MSA ARP



DIST to THR	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0
ALTITUDE	1050'	1370'	1690'	2010'	2330'	2640'	2960'	3280'	3600'	3920'



Gnd speed-Kts	70	90	100	120	140	160	ALSIF-II REIL PAPI	D →	DF290	220 KT MAX
Glide Path Angle	3.00°	372	478	531	637	743				

Std/State STRAIGHT-IN LANDING
1 GLS
 DA(H) **561'** (200')
 TDZ or CL out ALS out

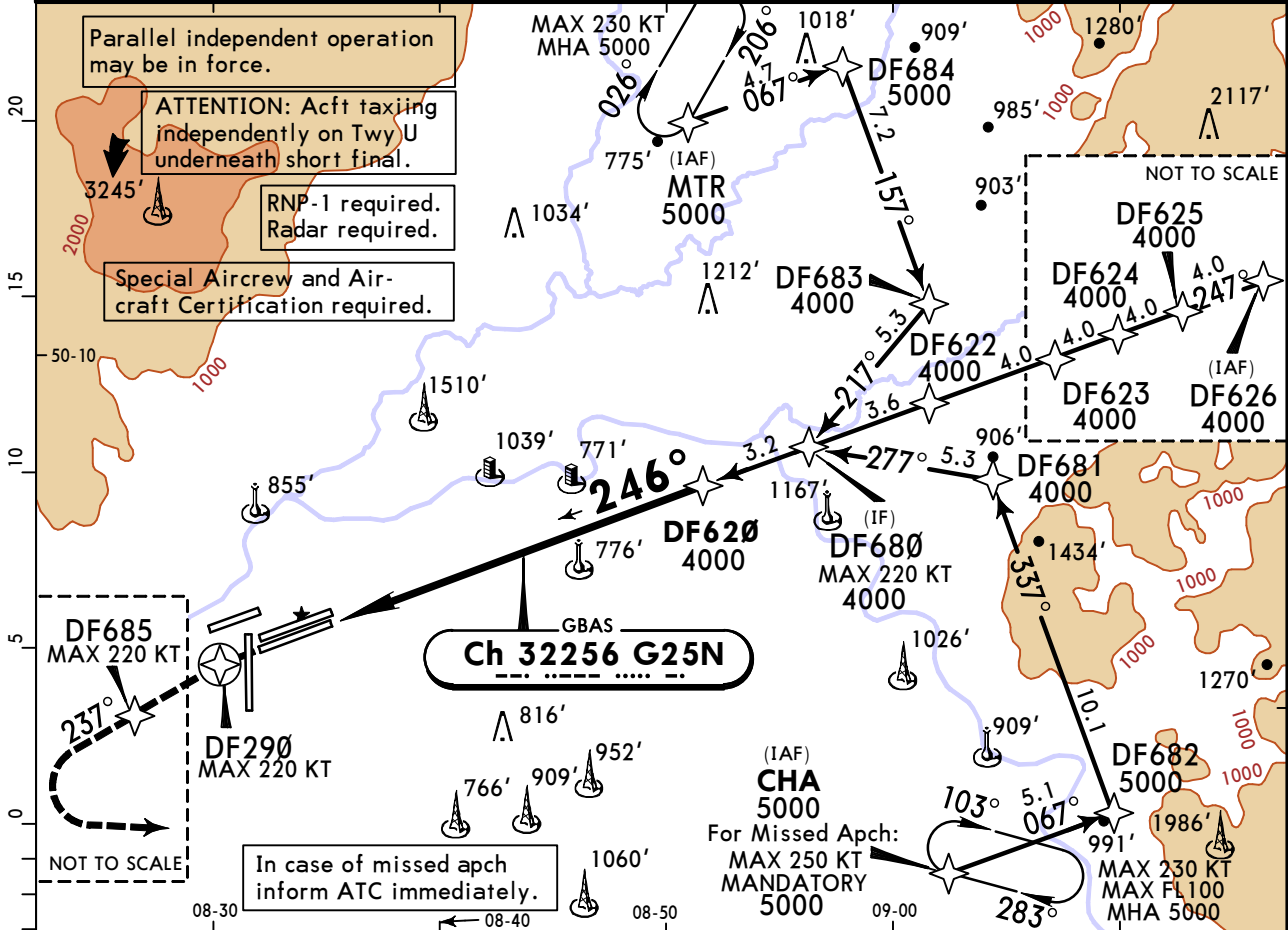
A	R550m	2 R550m	R1200m
B			
C			
D			

1 D_L: DA(H) 588' (227'). **2** R750m when a Flight Director or Autopilot or HUDLS to DA is not used.

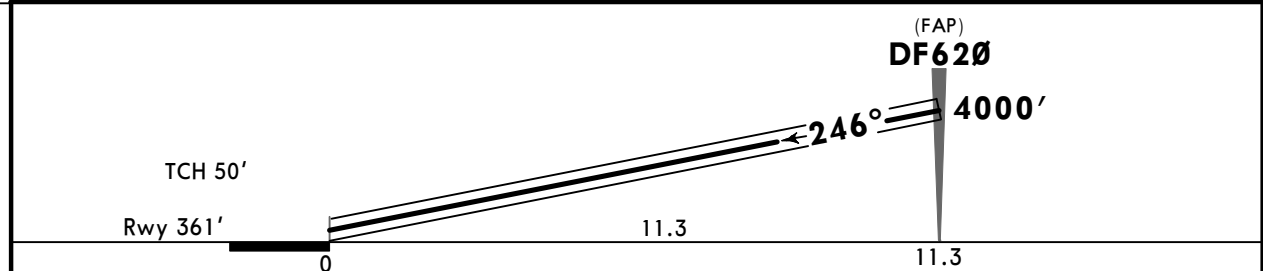
EDDF/FRA FRANKFURT/MAIN

7 JUL 23 **12-46A** Eff 13 Jul CAT II GLS Z Rwy 25L

D-ATIS Arrival	LANGEN Radar (APP) North South		*FRANKFURT Director (APP)		FRANKFURT Tower		*Ground
118.030	120.805	125.355	118.505	127.280	118.780	119.905	121.805
GBAS Ch 32256 G25N		Final Apch Crs 246°	DF620 4000' (3639')	CAT II GLS RA 95' DA(H) 461' (100')	Apt Elev 363' Rwy 361'		4300
MISSED APCH: Direct to DF290 (MAX 220 KT), then direct to DF685 (MAX 220 KT). Climb on course 237° to 5000', then turn LEFT (MAX 220 KT) direct to CHA at 5000' (MAX 250 KT).							
RNP Apch Alt Set: hPa(IN on req) Rwy Elev: 13 hPa Trans level: By ATC Trans alt: 5000'							MSA ARP



DIST to THR	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0
ALTITUDE	1050'	1370'	1690'	2010'	2330'	2640'	2960'	3280'	3600'	3920'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	D → DF290 220 KT MAX
Glide Path Angle	3.00°	372	478	531	637	743		

Std/State STRAIGHT-IN LANDING

RA 95'
DA(H) 461' (100')

R300m

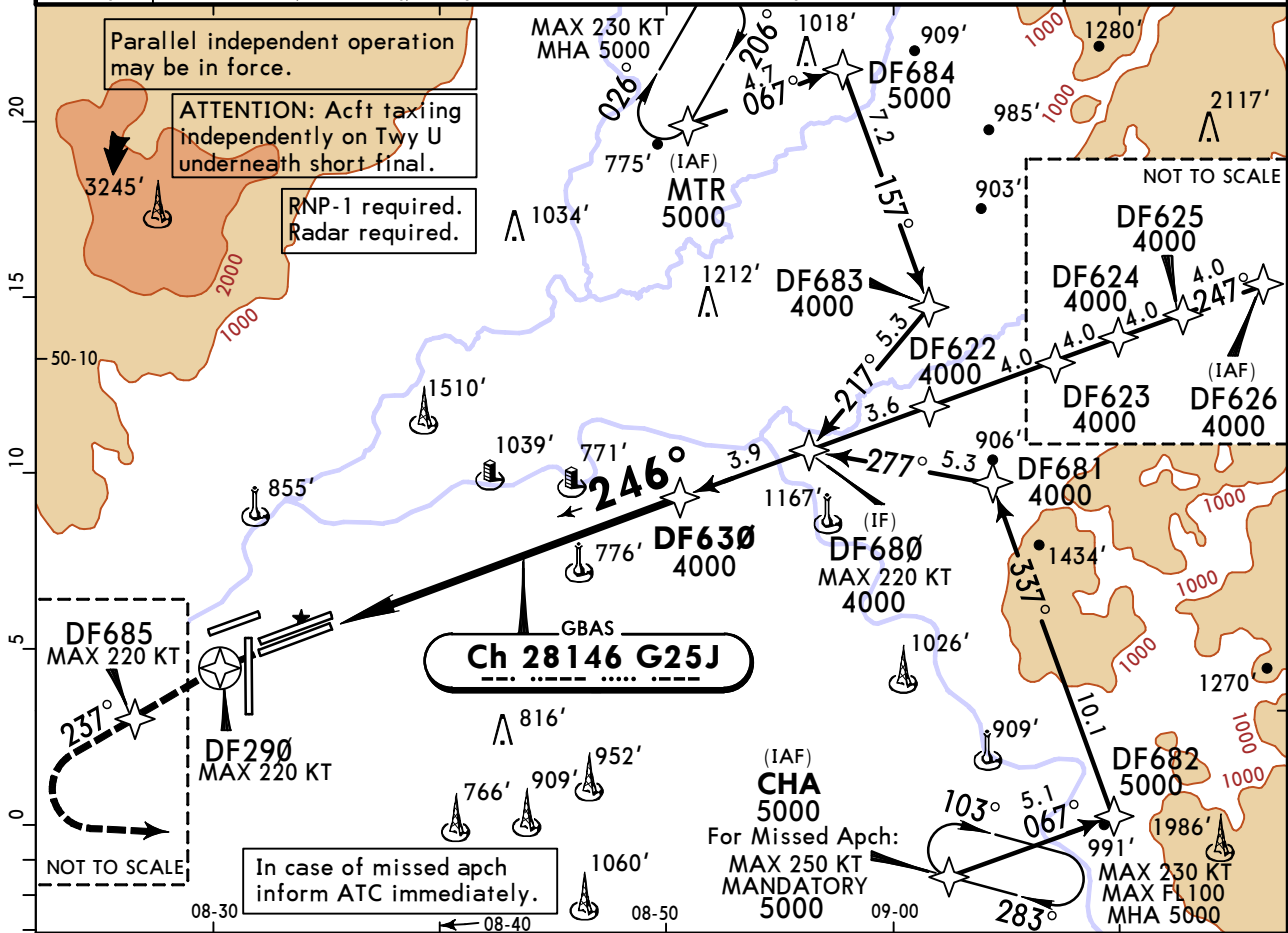
CAT D requires autoland or HUDLS, otherwise: R350m.

EDDF/FRA FRANKFURT/MAIN

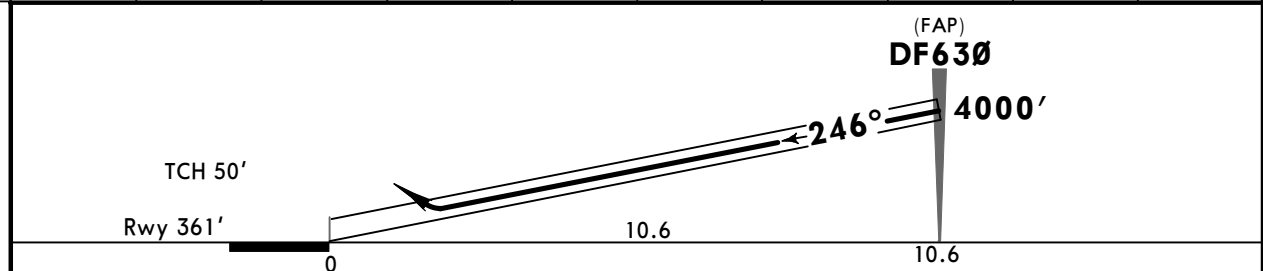
JEPPESEN FRANKFURT/MAIN, GERMANY GLS Y Rwy 25L

7 JUL 23 **12-47** Eff 13 Jul

D-ATIS Arrival 118.030	LANGEN Radar (APP) North 120.805	South 125.355	*FRANKFURT Director (APP) 118.505 127.280	FRANKFURT Tower 118.780 119.905	*Ground 121.805
GBAS Ch 28146 G25J	Final Apch Crs 246°	DF630 4000' (3639')	DA(H) 561' (200')	Apt Elev 363' Rwy 361'	4300 MSA ARP
MISSED APCH: Direct to DF290 (MAX 220 KT), then direct to DF685 (MAX 220 KT). Climb on course 237° to 5000', then turn LEFT (MAX 220 KT) direct to CHA at 5000' (MAX 250 KT).					
RNP Apch Alt Set: hPa(IN on req) Rwy Elev: 13 hPa Trans level: By ATC Trans alt: 5000'					



DIST to THR	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
ALTITUDE	1100'	1430'	1770'	2110'	2450'	2790'	3130'	3470'	3810'



Gnd speed-Kts	70	90	100	120	140	160	ALSIF-II REIL PAPI	D →	DF290	220 KT MAX
Glide Path Angle	3.20°	396	510	566	679	793				

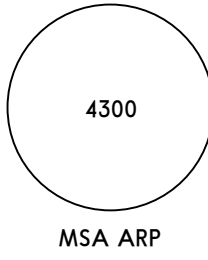
Std/State			STRAIGHT-IN LANDING		
GLS			DA(H) 561' (200')		
TDZ or CL out		ALS out			
A	R550m	R550m	R1200m		
B					
C					
D					
R750m when a Flight Director or Autopilot or HUDLS to DA is not used.					

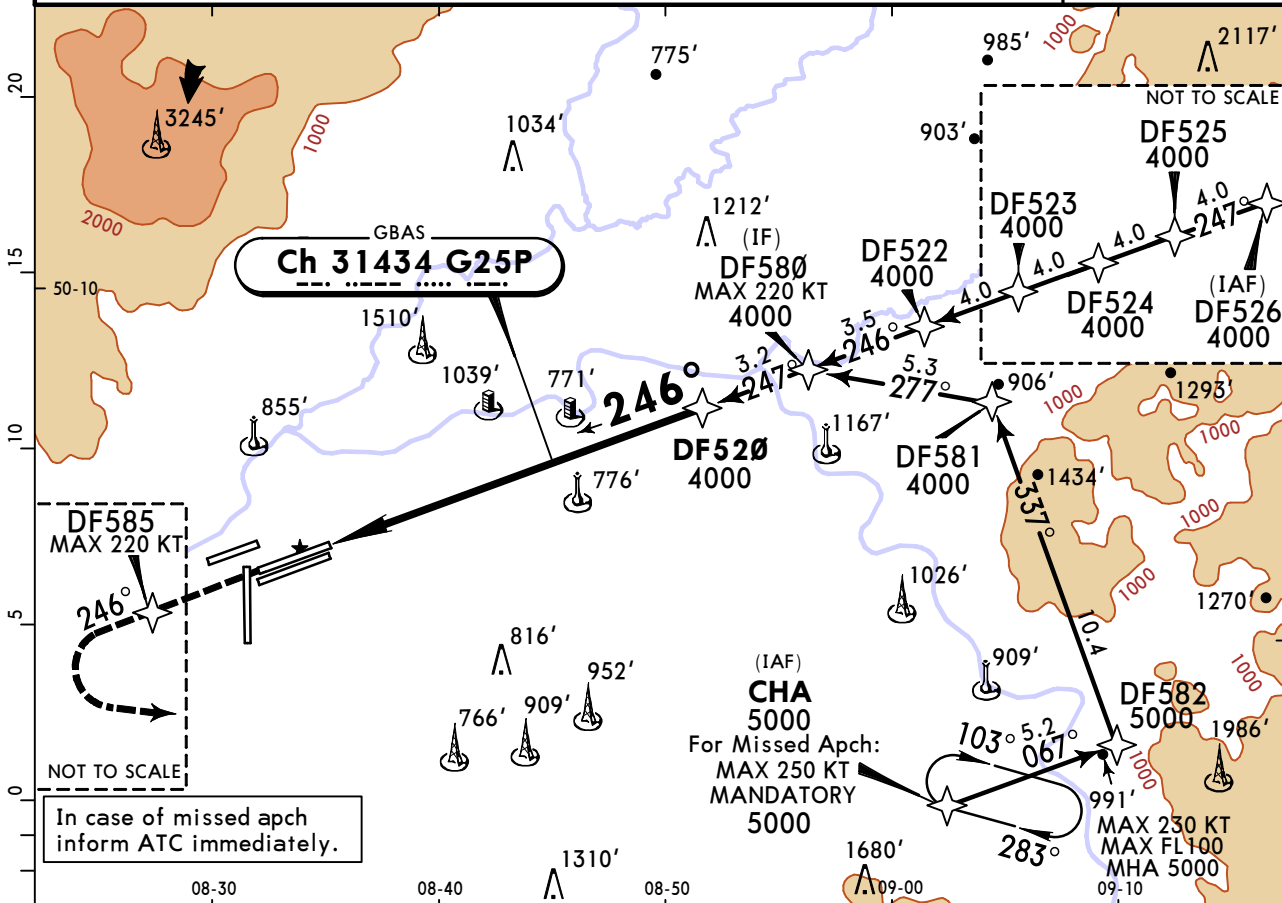
EDDF/FRA
FRANKFURT/MAIN

7 JUL 23

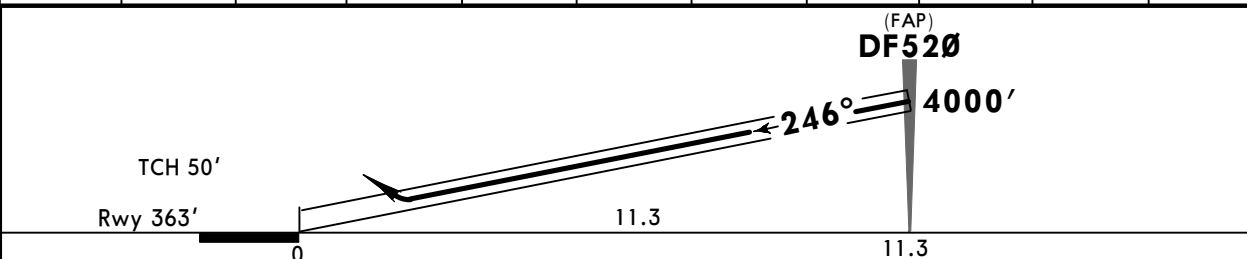
12-48 **Eff 13 Jul**


JEPPesen FRANKFURT/MAIN, GERMANY
GLS Z Rwy 25C


D-ATIS Arrival	LANGEN Radar (APP) North	LANGEN Radar (APP) South	*FRANKFURT Director (APP)		FRANKFURT Tower		*Ground
118.030	120.805	125.355	118.505	127.280	118.780	119.905	121.805
GBAS Ch 31434 G25P	Final Apch Crs 246°	DF520 4000' (3637')	DA(H) 563' (200')	Apt Elev 363' Rwy 363'			
MISSED APCH: Direct to DF585 (MAX 220 KT), then climb on course 246° to 5000', then turn LEFT (MAX 220 KT) direct to CHA at 5000' (MAX 250 KT).							
RNP Apch Alt Set: hPa (IN on req) Rwy Elev: 13 hPa Trans level: By ATC Trans alt: 5000'							
1. RNP-1 required. 2. Radar required. 3. ATTENTION: Acft taxiing independently on Twy U underneath short final. 4. Parallel independent operation may be in force.							



DIST to THR	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0
ALTITUDE	1050'	1370'	1690'	2010'	2330'	2650'	2970'	3280'	3600'	3920'

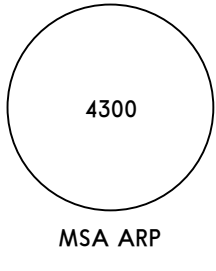


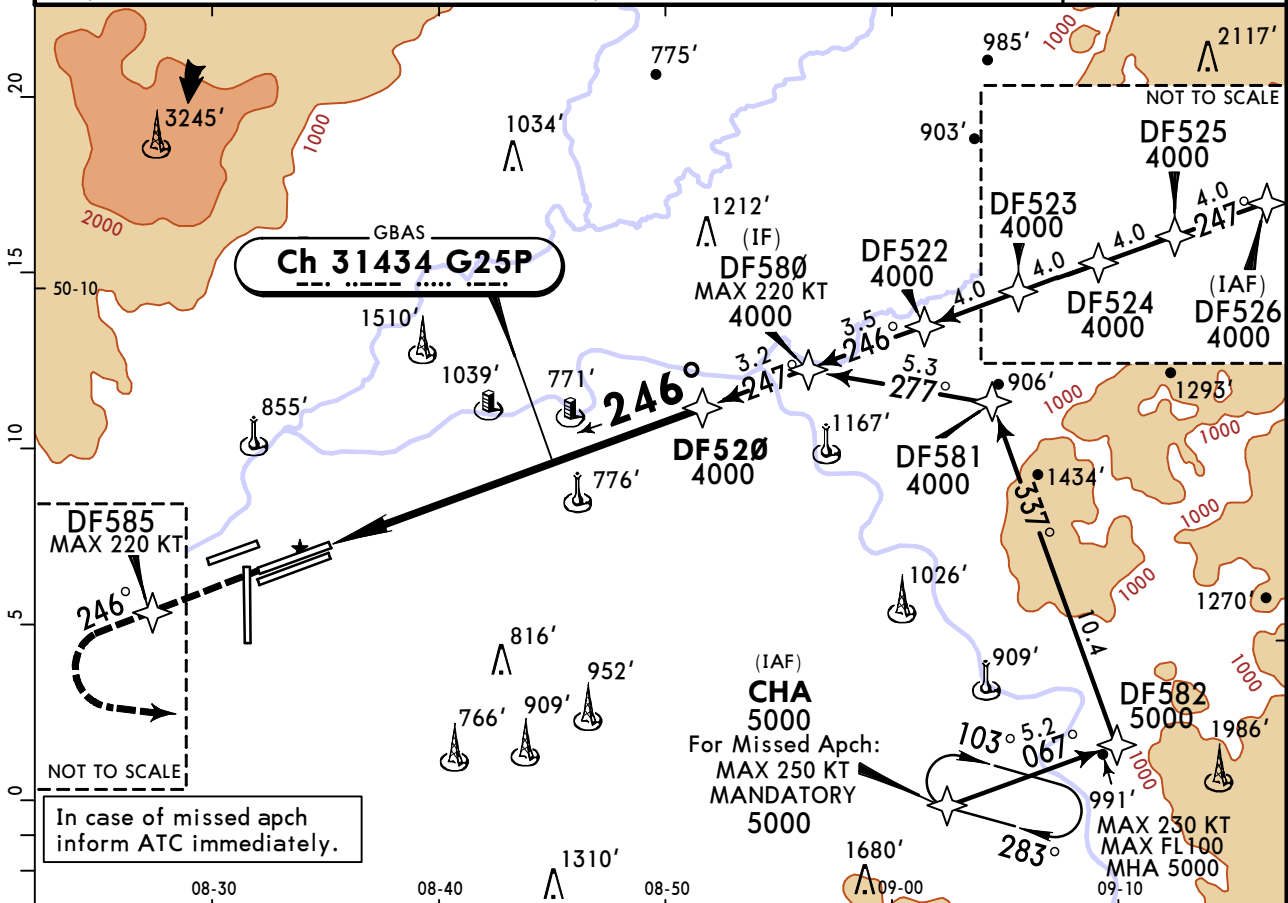
Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI		DF585	220 KT MAX
Glide Path Angle	3.00°	372	478	531	637	743				

Std/State			STRAIGHT-IN LANDING		
GLS			DA(H) 563' (200')		
TDZ or CL out		ALS out			
A	R550m	R550m		R1200m	
B					
C					
D					
PANS OPS  R750m when a Flight Director or Autopilot or HUDLS to DA is not used.					

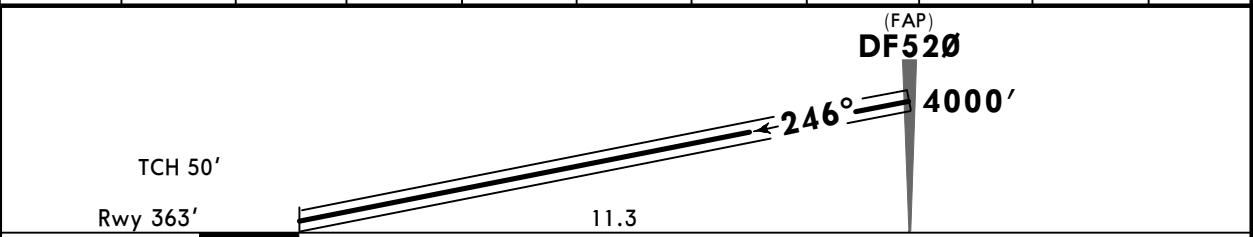
EDDF/FRA
FRANKFURT/MAIN


JEPPESSEN FRANKFURT/MAIN, GERMANY
7 JUL 23 **12-48A** **Eff 13 Jul** **CAT II GLS Z Rwy 25C**

D-ATIS Arrival 118.030	LANGEN Radar (APP) North 120.805	South 125.355	*FRANKFURT Director (APP) 118.505	127.280	FRANKFURT Tower 118.780	119.905	*Ground 121.805
GBAS Ch 31434 G25P	Final Apch Crs 246°	DF520 4000' (3637')	CAT II GLS RA 98' DA(H) 463' (100')	Apt Elev 363'	Rwy 363'		
MISSED APCH: Direct to DF585 (MAX 220 KT), then climb on course 246° to 5000', then turn LEFT (MAX 220 KT) direct to CHA at 5000' (MAX 250 KT).							
RNP Apch Alt Set: hPa (IN on req) Rwy Elev: 13 hPa Trans level: By ATC Trans alt: 5000'							
1. RNP-1 required. 2. Radar required. 3. ATTENTION: Acft taxiing independently TWY U underneath short final. 4. Parallel independent operation may be in force. 5. Special Aircrew and Aircraft Certification required.							



	08-30	08-40	08-50	09-00
DIST to THR	2.0	3.0	4.0	5.0
ALTITUDE	1050'	1370'	1690'	2010'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI		DF585	220 KT MAX
Glide Path Angle	3.00°	372	478	531	637	743				

Std/State STRAIGHT-IN LANDING

RA 98'
DA(H) **463'** (100')

R300m

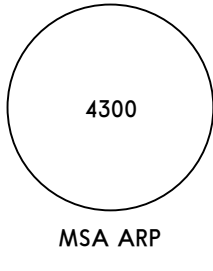
CAT D requires autoland or HUDLS, otherwise: R350m.

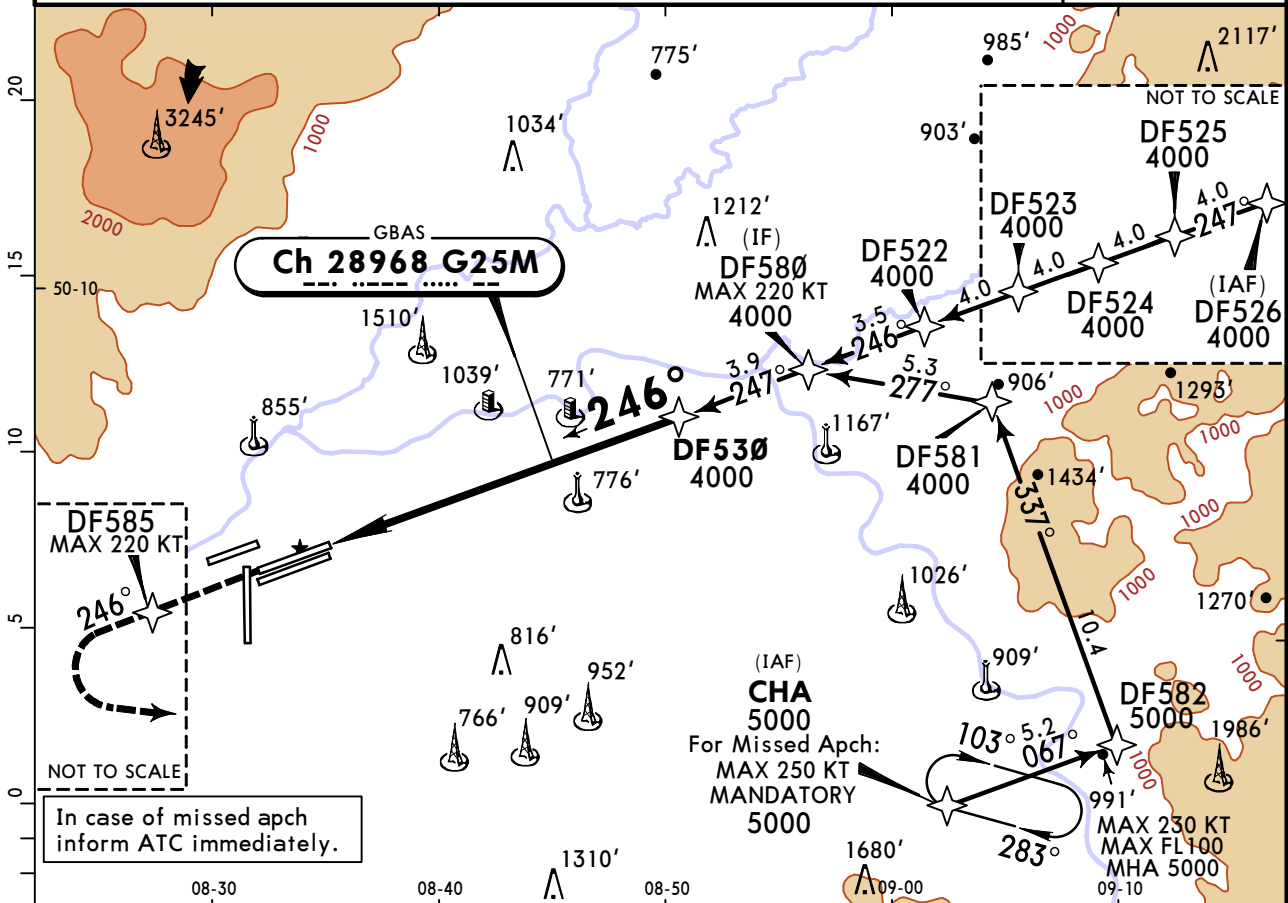
EDDF/FRA
FRANKFURT/MAIN

7 JUL 23

12-49 **Eff 13 Jul**

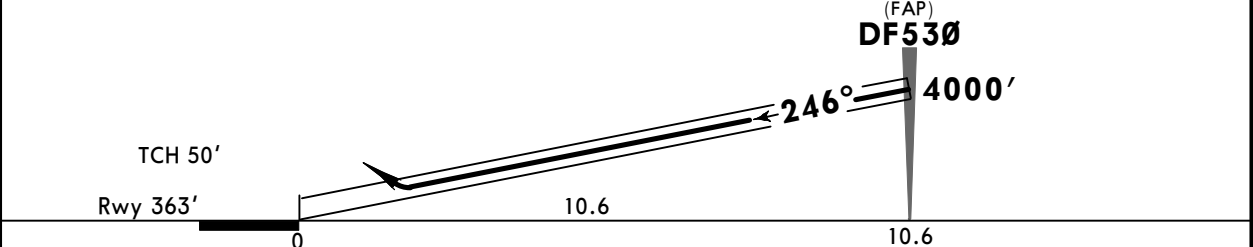
JEPPesen FRANKFURT/MAIN, GERMANY
GLS Y Rwy 25C


D-ATIS Arrival 118.030	LANGEN Radar (APP) North 120.805	South 125.355	*FRANKFURT Director (APP) 118.505 127.280	FRANKFURT Tower 118.780 119.905	*Ground 121.805
GBAS Ch 28968 G25M	Final Apch Crs 246°	DF530 4000' (3637')	DA(H) 563' (200')	Apt Elev 363' Rwy 363'	 <p>4300 MSA ARP</p>
MISSED APCH: Direct to DF585 (MAX 220 KT), then climb on course 246° to 5000', then turn LEFT (MAX 220 KT) direct to CHA at 5000' (MAX 250 KT).					
RNP Apch Alt Set: hPa (IN on req) Rwy Elev: 13 hPa Trans level: By ATC Trans alt: 5000' 1. RNP-1 required. 2. Radar required. 3. ATTENTION: Independently taxiing acft on Twy U underneath short final. 4. Parallel independent operation may be in force.					



In case of missed apch inform ATC immediately.

DIST to THR	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
ALTITUDE	1100'	1440'	1780'	2120'	2460'	2800'	3140'	3480'	3820'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	 DF585 220 KT MAX
Glide Path Angle	3.20°	396	510	566	679	793		

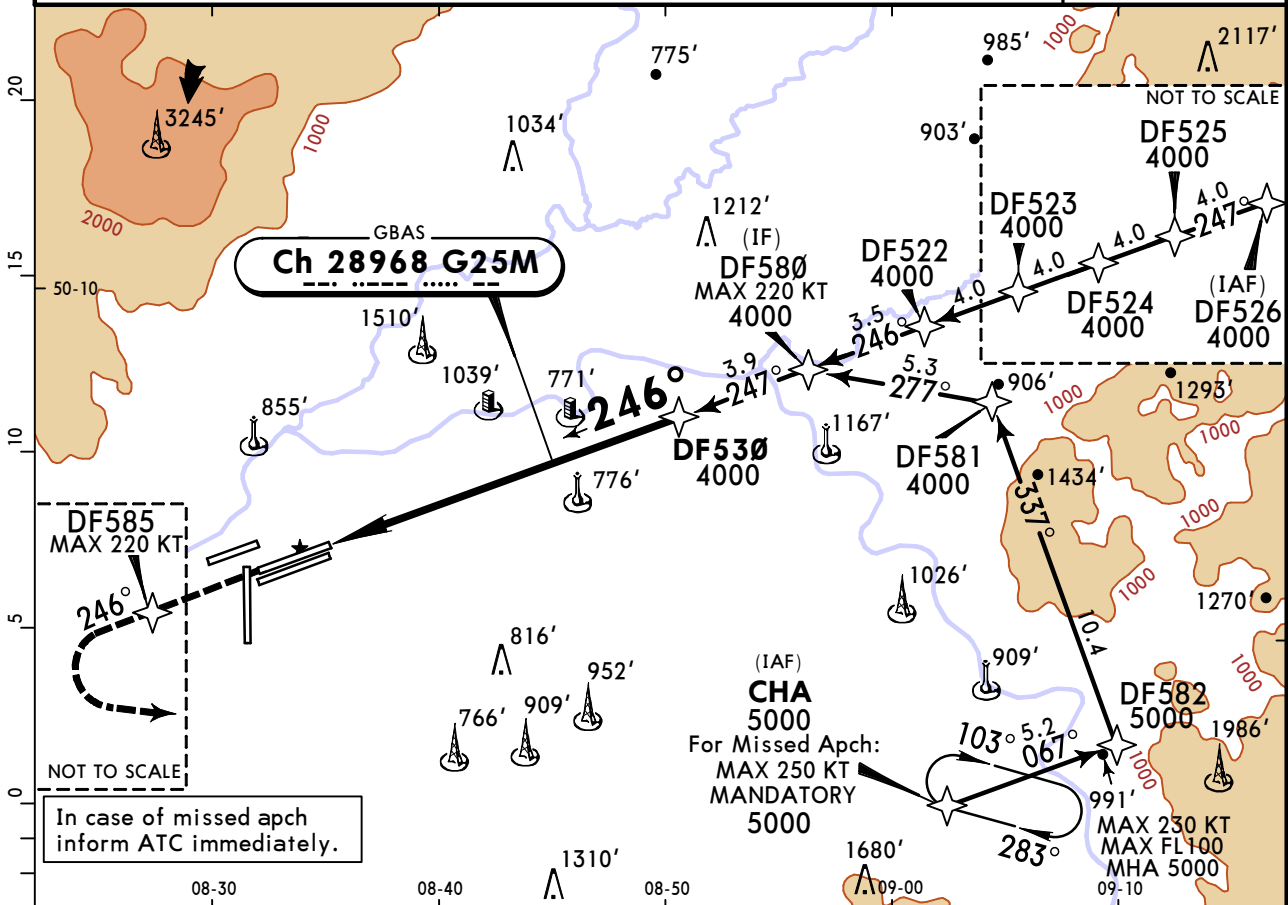
Std/State			STRAIGHT-IN LANDING		
GLS			GLS		
DA(H) 563' (200')			DA(H) 563' (200')		
TDZ or CL out		ALS out			
A	R550m	R550m	R550m	R1200m	R1200m
B					
C					
D					

CHANGES: Procedure, missed apch, minimums. © JEPPesen, 1999, 2023. ALL RIGHTS RESERVED.

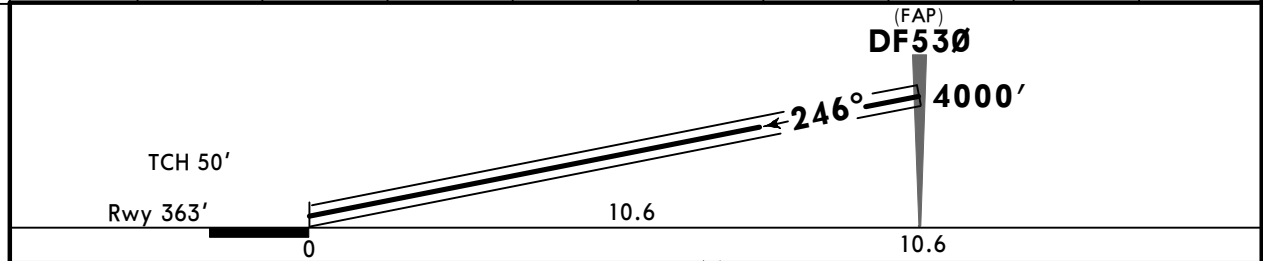
EDDF/FRA
FRANKFURT/MAIN

JEPPESSEN FRANKFURT/MAIN, GERMANY
7 JUL 23 **12-49A** **Eff 13 Jul** **CAT II GLS Y Rwy 25C**

D-ATIS Arrival 118.030	LANGEN Radar (APP) North 120.805	South 125.355	*FRANKFURT Director (APP) 118.505 127.280	FRANKFURT Tower 118.780 119.905	*Ground 121.805
GBAS Ch 28968 G25M	Final Apch Crs 246°	DF530 4000' (3637')	CAT II GLS RA 98' DA(H) 463' (100')	Apt Elev 363' Rwy 363'	<p>4300 MSA ARP</p>
MISSED APCH: Direct to DF585 (MAX 220 KT), then climb on course 246° to 5000', then turn LEFT (MAX 220 KT) direct to CHA at 5000' (MAX 250 KT).					
RNP Apch Alt Set: hPa (IN on req) Rwy Elev: 13 hPa Trans level: By ATC Trans alt: 5000' 1. RNP-1 required. 2. Radar required. 3. ATTENTION: Independently taxiing acft on Twy U underneath short final. 4. Parallel independent operation may be in force. 5. Special Aircrew and Aircraft Certification required.					



DIST to THR	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
ALTITUDE	1100'	1440'	1780'	2120'	2460'	2800'	3140'	3480'	3820'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI		DF585 220 KT MAX
Glide Path Angle	3.20°	396	510	566	679	793			

Std/State	STRAIGHT-IN LANDING	
	RA 98' DA(H) 463' (100')	
	R300m	
PANS OPS	CAT D requires autoland or HUDLS, otherwise: R350m.	

EDDF/FRA FRANKFURT/MAIN

18 AUG 23 (12-50)

JEPPESSEN FRANKFURT/MAIN, GERMANY GLS Z Rwy 25R

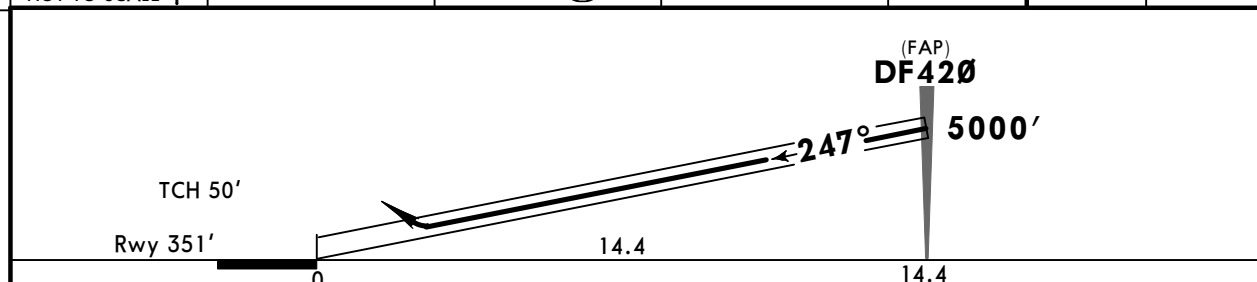
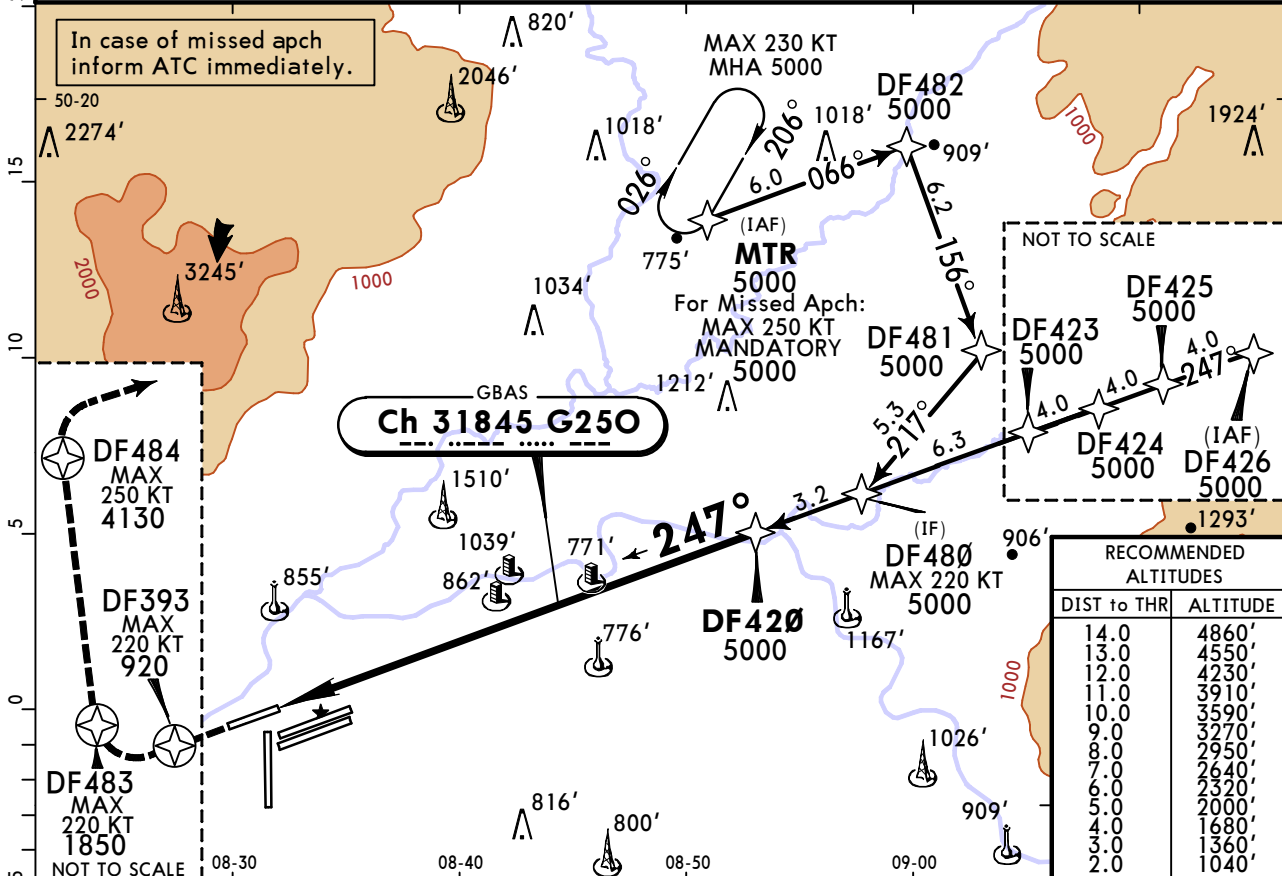
D-ATIS Arrival	LANGEN Radar (APP) North	LANGEN Radar (APP) South	*FRANKFURT Director (APP)		*FRANKFURT Tower	*Ground
118.030	120.805	125.355	118.505	127.280	136.5	121.805

GBAS Ch 31845 G250	Final Apch Crs 247°	DF420 5000' (4649')	DA(H) Refer to Minimums	Apt Elev 363' Rwy 351'	4300 MSA ARP
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MISSED APCH: Direct to DF393 at or above 920' (MAX 220 KT), turn RIGHT direct to DF483 at or above 1850' (MAX 220 KT), turn RIGHT direct to DF484 at or above 4130' (MAX 250 KT), turn RIGHT direct to MTR at 5000'.
Missed apch requires a min climb of 4.3% (261'/NM) to 4130'.

RNP Apch	Alt Set: hPa (IN on req)	Rwy Elev: 13 hPa	Trans level: By ATC	Trans alt: 5000'
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1. RNP-1 required. 2. Radar required.
3. Parallel independent operation may be in force.



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	DF393	MIM 920'	220 KT MAX
Glide Path Angle	3.00°	372	478	531	637	743				

Std/State			STRAIGHT-IN LANDING		
GLS					
DA(H) ABC: 551' (200') D: 558' (207')					
		TDZ or CL out		ALS out	
A	R550m		R550m		R1200m
B					
C					
D					
PANS OPS					
R750m when a Flight Director or Autopilot or HUDLS to DA is not used.					

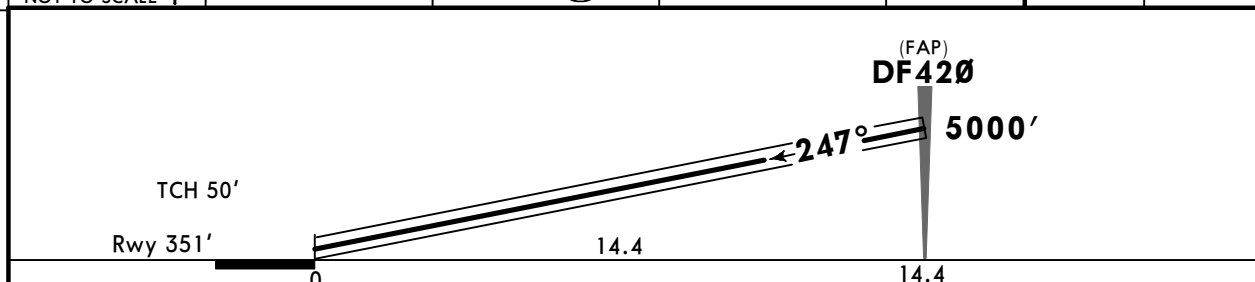
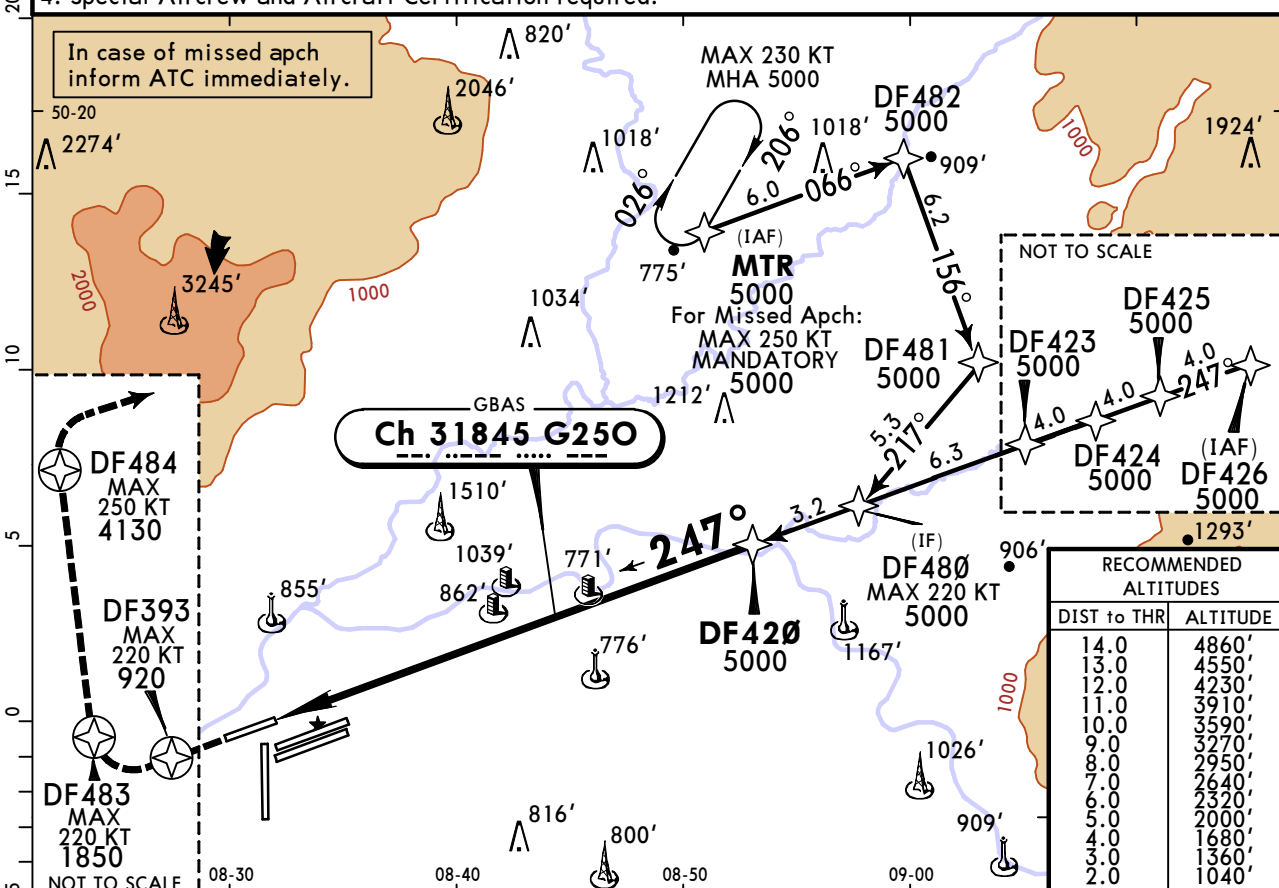
EDDF/FRA FRANKFURT/MAIN

18 AUG 23

12-50A

JEPPESSEN FRANKFURT/MAIN, GERMANY CAT II GLS Z Rwy 25R

D-ATIS Arrival	LANGEN Radar (APP) North	LANGEN Radar (APP) South	*FRANKFURT Director (APP)		*FRANKFURT Tower	*Ground
118.030	120.805	125.355	118.505	127.280	136.5	121.805
GBAS Ch 31845 G250	Final Apch Crs 247°	DF420 5000' (4649')	CAT II GLS Refer to Minimums	Apt Elev 363' Rwy 351'	4300 MSA ARP	
MISSED APCH: Direct to DF393 at or above 920' (MAX 220 KT), turn RIGHT direct to DF483 at or above 1850' (MAX 220 KT), turn RIGHT direct to DF484 at or above 4130' (MAX 250 KT), turn RIGHT direct to MTR at 5000'. Missed apch requires a mim climb of 4.3% (261'/NM) to 4130'.						
RNP Apch	Alt Set: hPa (IN on req)	Rwy Elev: 13 hPa	Trans level: By ATC		Trans alt: 5000'	
1. RNP-1 required. 2. Radar required. 3. Parallel independent operation may be in force. 4. Special Aircrew and Aircraft Certification required.						



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	D → DF393	MIM 920'	220 KT MAX
Glide Path Angle	3.00°	372	478	531	637	743				

Std/State	STRAIGHT-IN LANDING	
A: RA 103' DA(H) 451'(100')	D: RA 145' DA(H) 483'(132')	
B: RA 109' DA(H) 457'(106')		
C: RA 121' DA(H) 468'(117')		
PANS OPS	R300m	R400m

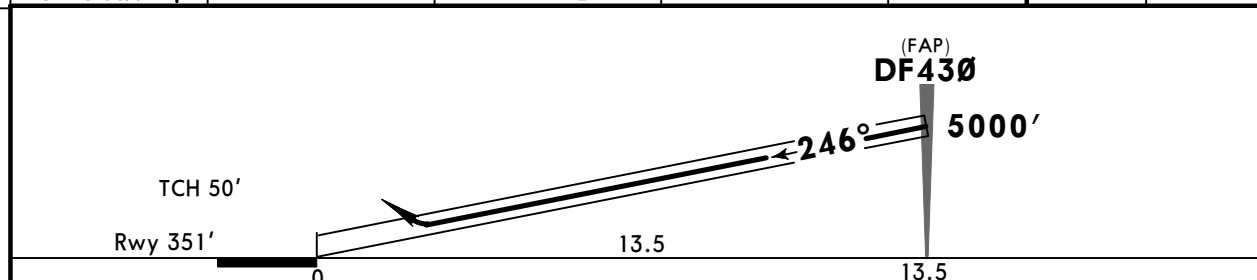
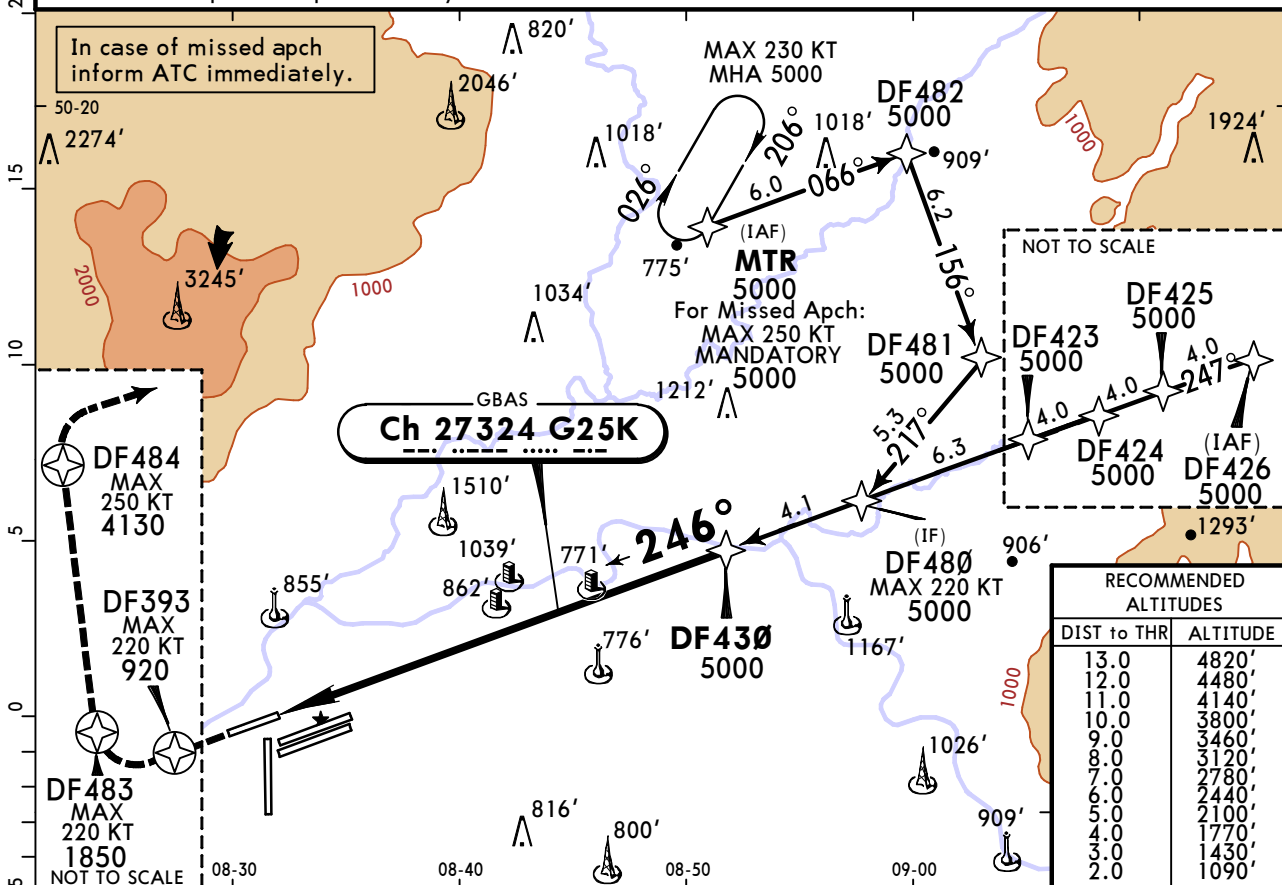
EDDF/FRA FRANKFURT/MAIN

18 AUG 23 (12-51)

JEPPESSEN FRANKFURT/MAIN, GERMANY GLS Y Rwy 25R

D-ATIS Arrival	LANGEN Radar (APP) North South		*FRANKFURT Director (APP)		*FRANKFURT Tower	*Ground
118.030	120.805	125.355	118.505	127.280	136.5	121.805
GBAS Ch 27324 G25K	Final Apch Crs 246°	DF430 5000' (4649')	DA(H) Refer to Minimums	Apt Elev 363' Rwy 351'	4300 MSA ARP	
MISSED APCH: Direct to DF393 at or above 920' (MAX 220 KT), turn RIGHT direct to DF483 at or above 1850' (MAX 220 KT), turn RIGHT direct to DF484 at or above 4130' (MAX 250 KT), turn RIGHT direct to MTR at 5000'. Missed apch requires a mim climb of 4.3% (261'/NM) to 4130'.						
RNP Apch	Alt Set: hPa (IN on req)	Rwy Elev: 13 hPa	Trans level: By ATC		Trans alt: 5000'	

1. RNP-1 required. 2. Radar required.
3. Parallel independent operation may be in force.



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	D → DF393	MIM 920'	220 KT MAX
Glide Path Angle	3.20°	396	510	566	679	793				

Std/State			STRAIGHT-IN LANDING		
GLS					
DA(H) ABC: 551' (200') D: 558' (207')					
		TDZ or CL out		ALS out	
A	R550m		R550m		R1200m
B					
C					
D					
PANS OPS R750m when a Flight Director or Autopilot or HUDLS to DA is not used.					

CHANGES: Missed approach.

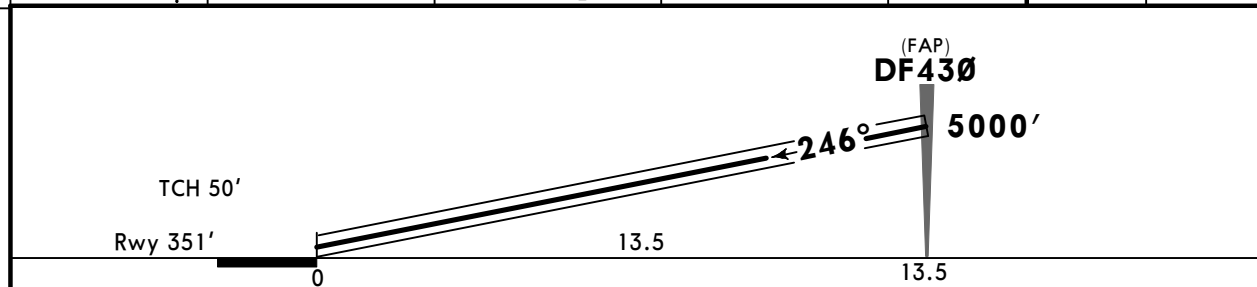
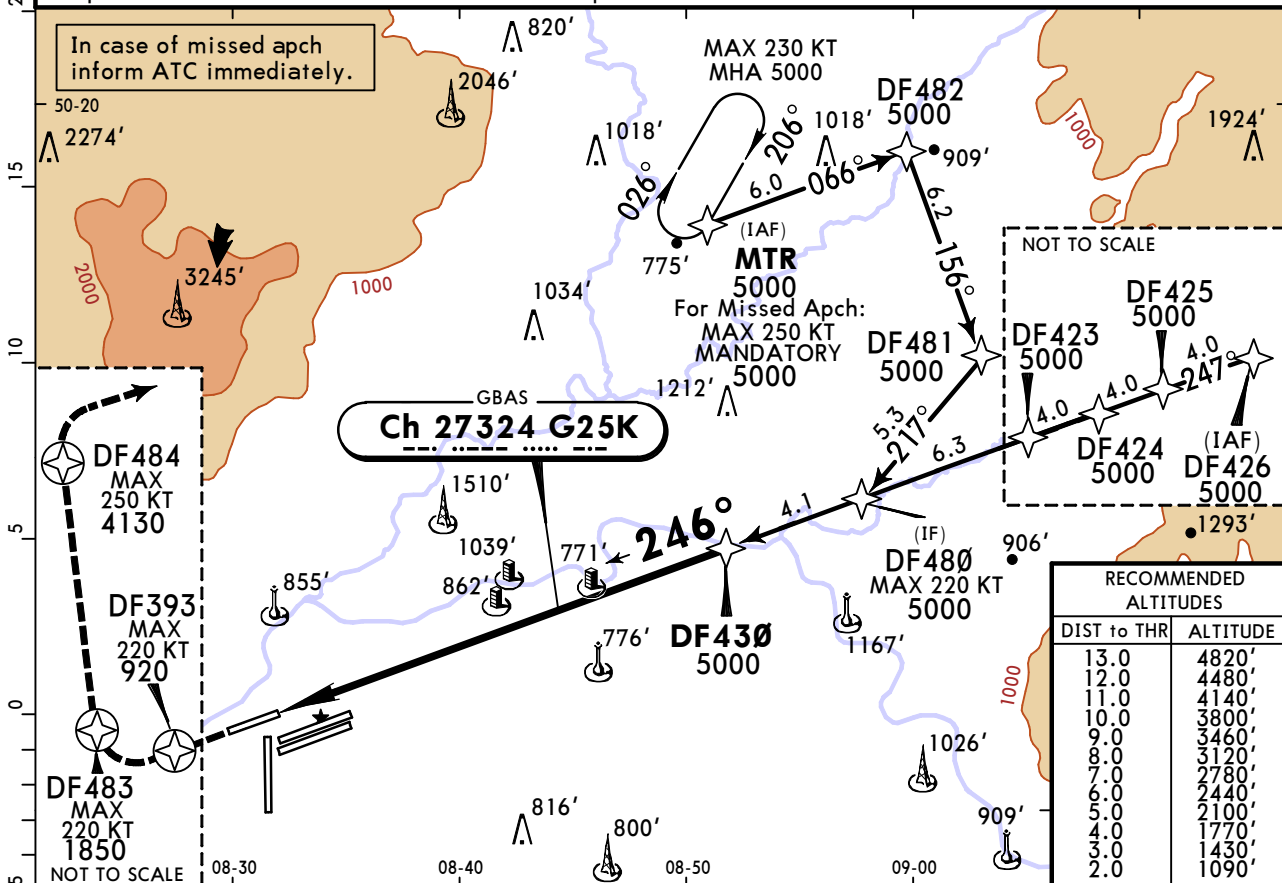
EDDF/FRA FRANKFURT/MAIN

18 AUG 23

12-51A

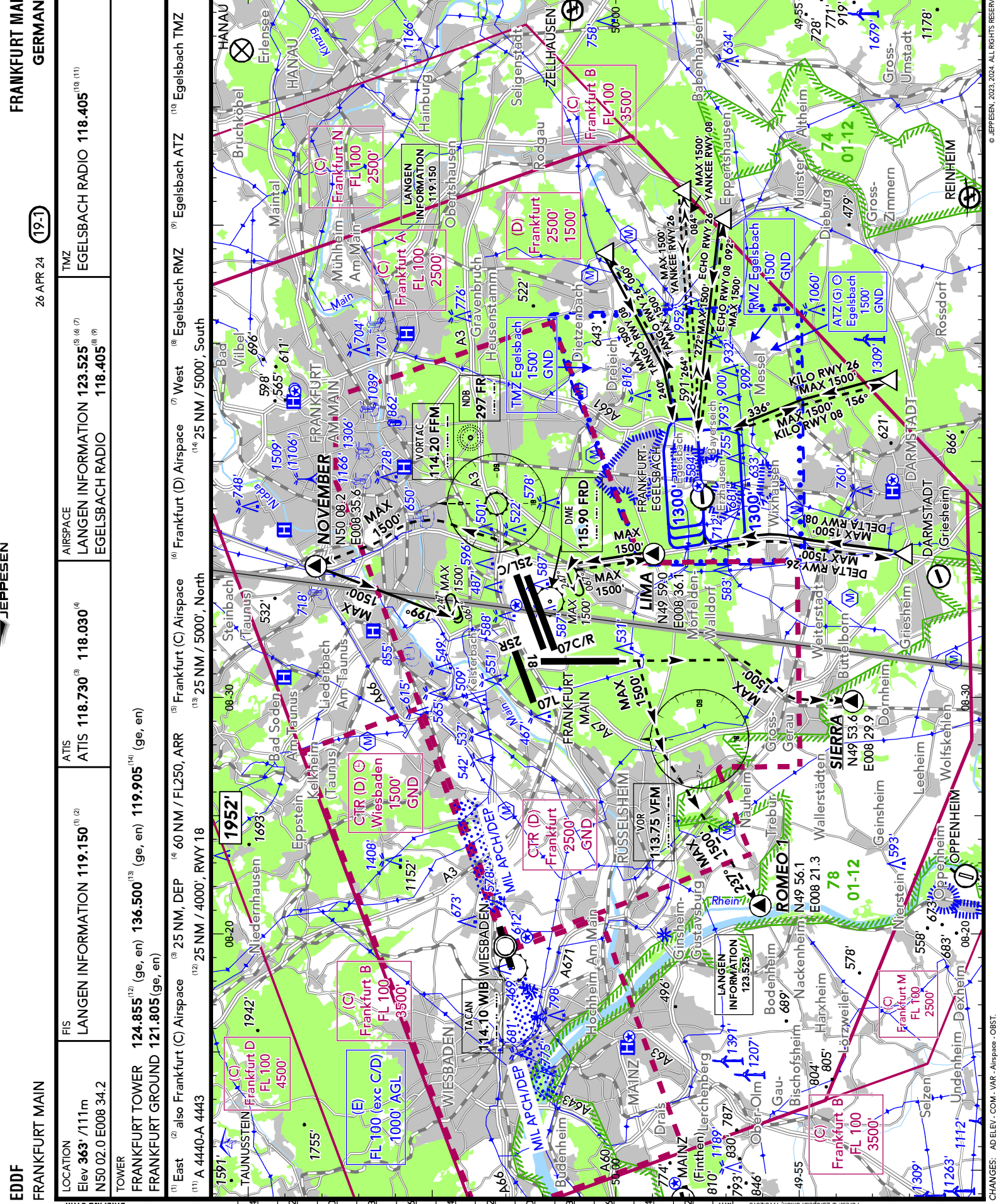
JEPPESSEN FRANKFURT/MAIN, GERMANY CAT II GLS Y Rwy 25R

D-ATIS Arrival	LANGEN Radar (APP) North	LANGEN Radar (APP) South	*FRANKFURT Director (APP)		*FRANKFURT Tower	*Ground
118.030	120.805	125.355	118.505	127.280	136.5	121.805
GBAS Ch 27324 G25K	Final Apch Crs 246°	DF430 5000' (4649')	CAT II GLS Refer to Minimums	Apt Elev 363' Rwy 351'	4300 MSA ARP	
MISSED APCH: Direct to DF393 at or above 920' (MAX 220 KT), turn RIGHT direct to DF483 at or above 1850' (MAX 220 KT), turn RIGHT direct to DF484 at or above 4130' (MAX 250 KT), turn RIGHT direct to MTR at 5000'. Missed apch requires a mim climb of 4.3% (261'/NM) to 4130'.						
RNP Apch	Alt Set: hPa (IN on req)	Rwy Elev: 13 hPa	Trans level: By ATC		Trans alt: 5000'	
1. RNP-1 required. 2. Radar required. 3. Parallel independent operation may be in force. 4. Special Aircrew and Aircraft Certification required.						



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	DF393	MIM 920'	220 KT MAX
Glide Path Angle	3.20°	396	510	566	679	793				

Std/State	STRAIGHT-IN LANDING	
A: RA 102' DA(H) 451' (100')	D: RA 136' DA(H) 483' (132')	
B: RA 108' DA(H) 457' (106')		
C: RA 121' DA(H) 468' (117')		
PANS OPS	R300m	R400m



LOCATION Elev 363' / 111m N50.02.0 E008 34.2	FIS LANGEN INFORMATION 119.150 ^{(1) (2)}	ATIS ATIS 118.730 ⁽³⁾ 118.030 ⁽⁴⁾	AIRSPACE LANGEN INFORMATION 123.525 ^{(5) (6) (7)} EGELSBAACH RADIO 118.405 ^{(8) (9)}	TMZ EGELSBAACH RADIO 118.405 ^{(10) (11)}
TOWER FRANKFURT TOWER 124.855 ⁽¹²⁾ (ge, en) 136.500 ⁽¹³⁾ (ge, en) 119.905 ⁽¹⁴⁾ (ge, en) FRANKFURT GROUND 121.805 (ge, en)	(1) East (2) also Frankfurt (C) Airspace (3) 25 NM, DEP (4) 60 NM / FL250, ARR (5) Frankfurt (D) Airspace (6) Frankfurt (D) Airspace (7) West (8) Egelsbach RMZ (9) Egelsbach ATZ (10) Egelsbach TMZ (11) A 4440-A 4443 (12) 25 NM / 4000', RWY 18 (13) 25 NM / 5000', North (14) 25 NM / 5000', South			

FRANKFURT MAIN

FRANKFURT MAIN

GERMANY

26 APR 24 (19-1)



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CHANGES: AD ELEV. COM. VAR. Airspace - OBIT.

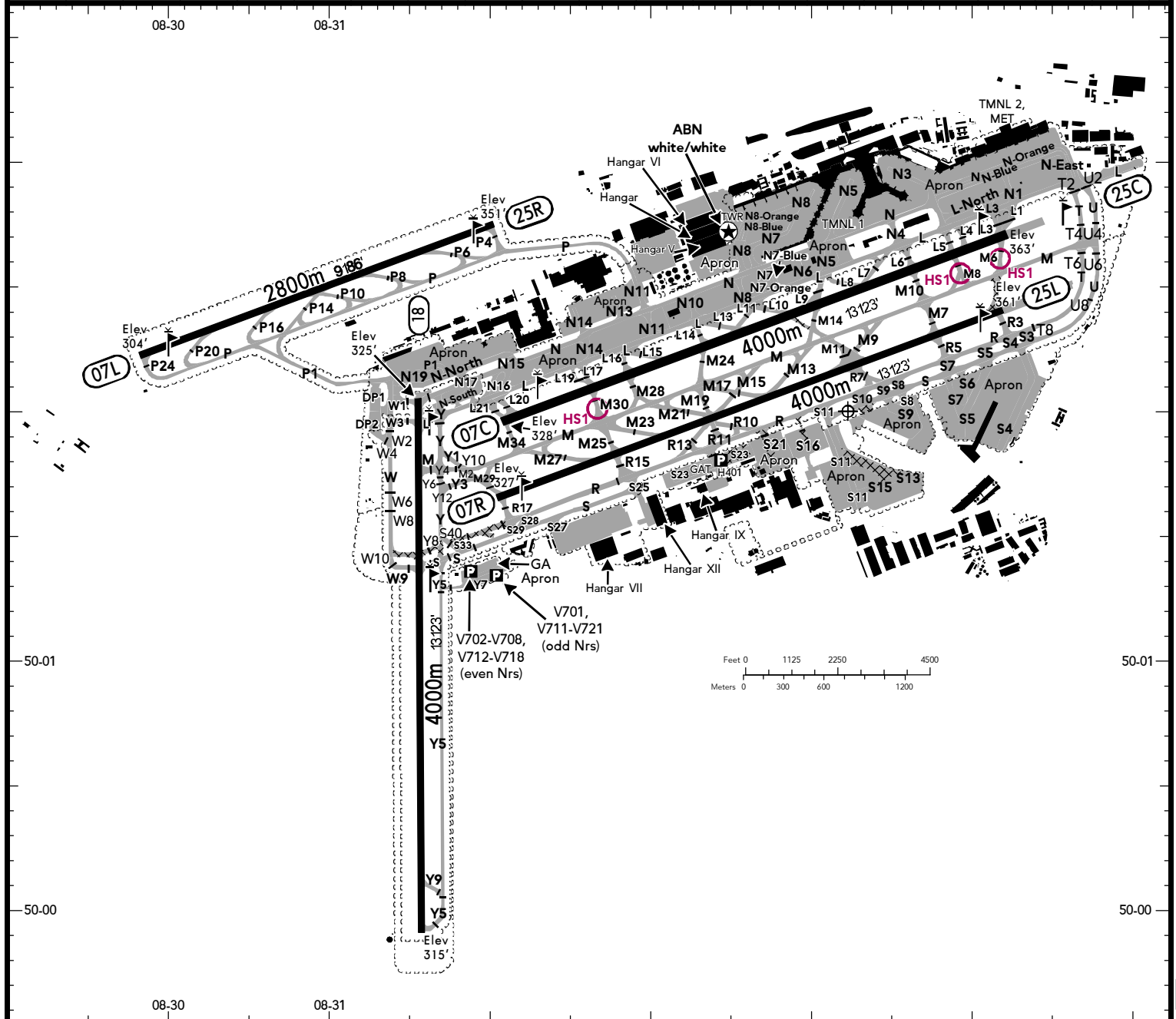
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FRANKFURT MAIN

FRANKFURT MAIN
GERMANY





26 APR 24 **19-2**

LOCATION Elev 363' /111m N50 02.0 E008 34.2	ATIS ATIS 118.730 ⁽¹⁾ 118.030 ⁽²⁾	TOWER	FRANKFURT DELIVERY 122.035 ⁽³⁾ (ge, en)	ADMITTED AIRCRAFT  
		FRANKFURT APRON	121.855 (ge, en) 121.655 (ge, en)	
		FRANKFURT GROUND	121.805 (ge, en)	
		FRANKFURT TOWER	124.855 ⁽⁴⁾ (ge, en) 136.500 ⁽⁵⁾ (ge, en) 119.905 ⁽⁶⁾ (ge, en)	

⁽¹⁾ 25 NM, DEP ⁽²⁾ 60 NM / FL250, ARR ⁽³⁾ Initial call and start-up request ⁽⁴⁾ 25 NM / 4000', RWY 18 ⁽⁵⁾ 25 NM / 5000', North ⁽⁶⁾ 25 NM / 5000', South



ABN - ALS* - PAPI 07L (3°/3.2°), 25R (3°/3.2°), 07C (3°/3.2°), 25C (3°/3.2°), 07R (3°/3.2°), 25L (3°/3.2°) - THRL* - RL - RENL - RCLL - TWYL - APRON - WDI - OBSTL *EXC 18

RWY No	Dimension (m) - Surface	TORA (m)	LDA (m)	Strength	Lights
07C (066°) 25C (246°)	4000 x 60 Asphalt	4000	4000	PCN 74/F/A/W/T	
07R (066°) 25L (246°)	4000 x 45 Asphalt	4000	4000	PCN 74/F/A/W/T	
18 (176°) ①	4000 x 45 Paved	3970		PCN 74/R/A/W/T	
07L (066°) 25R (246°) ②	2800 x 45 Concrete		2800	PCN 74/R/A/W/T	

① LDG prohibited.
② TKOF prohibited. Porous friction course.

FRANKFURT MAIN 19-2

EDDF

FRANKFURT MAIN

26 APR 24

19-3

FRANKFURT MAIN

GERMANY

Intersection TKOF

RWY	TWY	TORA (m)
07C	L20	3942
	L19/M30	3312
	L17	3312
	L16/M28	3012
	L14	2412
	M24	2444
25C	L3	3972
	L4	3700
	L5/M8	3595
	L6/M10	3266
07R	M25/R15	3085
	M19/R11	2330
25L	M7/R5	3494
	R7	2872
	M19	1700
18	N-South	3894
	L	3823
	W3	3817
	M	3454
	R	2842
	W7	2823
	S	2755
	W9	2726

- Continuously after LDG until the ACFT is fully parked on stand;
- When the ACFT is fully parked on stand, standby shall be selected.

ACFT TAX without a flight plan shall select Mode A code 2000.

RWY 07L/25R with porous friction course (antiskid SFC). Expect different friction at the transition from RWY 07L/25R to TWYs P4, P6, P8, P10, P14, P16, P20 and P24.

TOWER/GROUND is responsible for preventing collisions between aircraft as well as between aircraft and other vehicles or obstacles on the manoeuvring area. In individual cases and after prior consultation between TOWER/GROUND and APRON, the boundaries of the manoeuvring area and thus the responsibility for handling traffic can be moved temporarily, for example to carry out construction work or snow removal. During the consultation, TOWER/GROUND and APRON will agree on temporary transfer points. Fraport will take all necessary closing-off and safety measures.

Taxiing Instructions

Arrival

Pilots of arriving ACFT will be instructed by FRANKFURT TOWER to contact FRANKFURT APRON.

Departure

All DEPs have to request a start-up clearance.

Pilots of departing ACFT shall first contact FRANKFURT DELIVERY, report "ready for taxiing" and will then be instructed to contact FRANKFURT APRON.

General Aviation Apron

Taxiing on the GA Apron

The wing-tip-clearance is MNM 4.5m.

Adhere strictly to the yellow taxi guidance lines.

ACFT maintenance area E of Hangar IX - only towing permitted.

HEL

All HELs parking at the GAT have to expect LDG and TKOF on RWY 07R/25L.

PRKG stand H401 MAX rotor diameter/length/width: 29m.

CAUTION: IFR traffic.

Avoid departure sector RWY 18.

WARNING: In cases of strong winds, wind shears and increased turbulence must be expected on RWY 18 ((in the case of winds between 200° and 160° in a clockwise direction and speeds of 15 KT and more on TKOF RWY 18, gusts and strong wind shifts up to tail wind components may occur).

DANGER: Possible wake turbulence.

RWY Incursion Hot Spots

HS1 - Explicit clearance required for crossing RWY 07C/25C. Stop at CAT II/III holding point, stop bar is illuminated under all weather conditions.

General

Approaches via REP LIMA will cross ATZ / RMZ / TMZ Egelsbach and will be coordinated by LANGEN INFORMATION in advance. Initial contact with EGELSBACH RADIO.

Departures RWY 25 via REP NOVEMBER, all inbounds via REP NOVEMBER and crossing traffic north to south and vice versa in exceptional cases only.

Pilots wishing to use AD shall ensure that the Mode S transponders can be operated when the ACFT is on the ground.

Pilots shall select the assigned Mode A code as well as the Mode S CS and set the transponder to AUTO mode or ON (e.g. XPDR):

- From the REQ for push-back or TAX, whichever is earlier;

Chart changes since cycle 10-2024

ADD = added chart, REV = revised chart, DEL = deleted chart.

ACT	PROCEDURE IDENT	INDEX	REV DATE	EFF DATE
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FRANKFURT/MAIN, (FRANKFURT/MAIN - EDDF)

TERMINAL CHART CHANGE NOTICES

Chart Change Notices for Airport EDDF

Type: Terminal
Effectivity: Temporary
Begin Date: 20240329
End Date: Until Further Notice

Reconstruction of eastern Twy bridges and partial closure of Twy P (based on SUP 08/24). Refer to temp charts 10-8C, 10-8D and latest NOTAMs.

Type: Terminal
Effectivity: Temporary
Begin Date: 20240329
End Date: Until Further Notice

Temporary construction works near J-Pier (based on SUP 12/24). Refer to temp chart 10-8A and latest NOTAMs.

Type: Terminal
Effectivity: Temporary
Begin Date: 20230818
End Date: Until Further Notice

Reconstruction of TWY R (based on SUP 19/24). Refer to temp chart 10-8B and latest NOTAMs.

Type: Terminal (VFR)
Effectivity: Temporary
Begin Date: Immediately
End Date: Until Further Notice

EFF APR 24 until JUL 24 The eastern TWY bridges will be reconstructed and TWY P will be CLSD BTN TWYs P4 and N11. The junctions leading to TWYs P4, P6, P8, P10 and P14 to the east will be marked as CLSD. After LDG on RWY 07L/25R, access to the apron will exclusively be via TWY P1.

Type: Terminal (VFR)
Effectivity: Temporary
Begin Date: Immediately
End Date: Until Further Notice

Until APRX JUN 24 CONST works are carried out in two phases on TWY R. Phase 1: TWY R closed BTN TWY S11 and S5, TWY R7 and R5 closed; Phase 2: TWY R closed BTN TWY S23 and S25, TWY R13 closed, connection BTN TWY S23 and S25 estbld via TWY S. Please check current NOTAMs.

Type: Terminal (VFR)
Effectivity: Permanent
Begin Date: Immediately
End Date: No end date

Aprons around TWYs S16, S21 and E of PRKG stand H401 CLSD. Apron W of PRKG stand H401 replaced by TWY APRX 30m wide connected to TWY S25. PRKG stand H401 withdrawn. TWY S23 chgd to connect Hangar IX and TWY R, perpendicular to this TWY.

Chart Change Notices for Country DEU

Type: Gen Tmnl
Effectivity: Permanent
Begin Date: 20210326
End Date: No end date

Use of SID RNAV OVERLAY: Pilots of GPS/FMS-RNAV-equipped aircraft should, if possible, use the defined supplementary GPS/FMS/RNAV procedures which are published as "OVERLAY" to a conventional procedure. Please refer also to ATC Germany pages for additional information.

Type: Gen Tmnl
Effectivity: Temporary
Begin Date: Immediately
End Date: Until Further Notice

Jeppesen charted take-off minimums are determined according to the available RWY lights. In Germany, Low Visibility Procedures (LVP) are only available for the following airports: EDDB, EDDC, EDDE, EDDF, EDDG, EDDH, EDDK, EDDL, EDDM, EDDN, EDDP, EDDR, EDSS, EDDV, EDDW, EDFH, EDHI, EDHL, EDJA, EDLN, EDLP, EDLV, EDLW, EDMA, EDNY, EDQM, EDSB, EDTL, EDTY, EDVE, EDVK. All other German airports are not approved for Low Visibility Take-off Operations (LVTO) with an RVR below 400m because of missing LVP.

Type: Gen Tmnl
Effectivity: Permanent
Begin Date: Immediately
End Date: No end date

Location/airport name changed from Buchel to Buechel, Buckeburg to Bueckeburg, Norvenich to Noervenich.

Type: Gen Tmnl (VFR)
Effectivity: Permanent
Begin Date: Immediately
End Date: No end date

Text section 2.3 Frequencies for Change of Flight Rules from VFR to IFR: BREMEN RADAR freq 131.330 chgd to 119.490.

Type: Gen Tmnl (VFR)
Effectivity: Permanent
Begin Date: Immediately
End Date: No end date

In general, the callsign of A/G communication station at uncontrolled aerodromes is RADIO, service AFIS is withdrawn. On approaches, radio telephony communication shall be established not later than 5 MIN prior to reaching the AD.

Type: Gen Tmnl (VFR)
Effectivity: Permanent
Begin Date: Immediately
End Date: No end date

EFF 25 MAR 21 BDRY between FIS sectors with COM LANGEN INFORMATION 126.950 and LANGEN INFORMATION 128.950 moved APRX 26 NM W. BDRY between FIS sectors with COM LANGEN INFORMATION 119.825 and LANGEN INFORMATION 125.800 and LANGEN INFORMATION 132.650 moved APRX 26 NM W.