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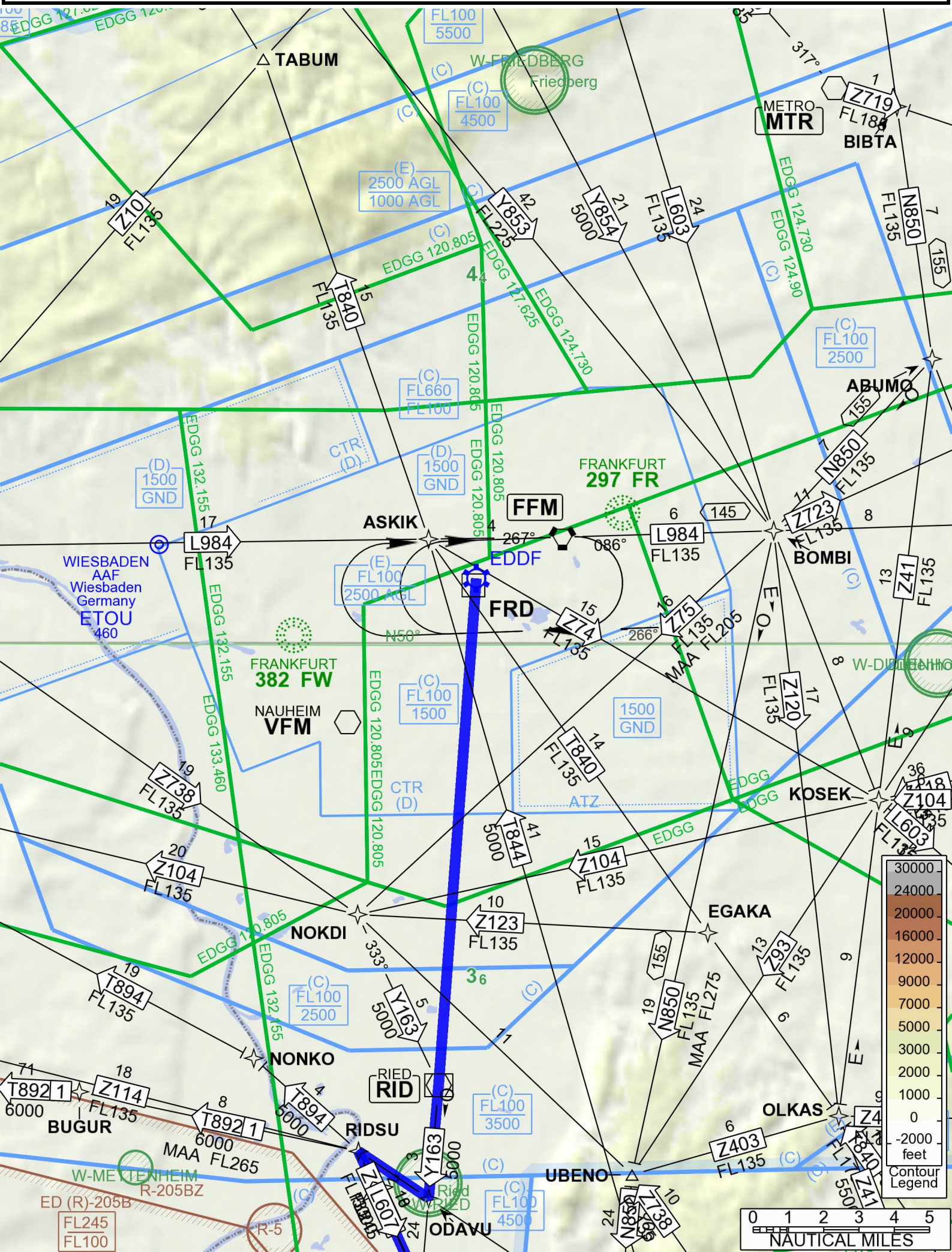
Strip Charts EDDF - LOWI

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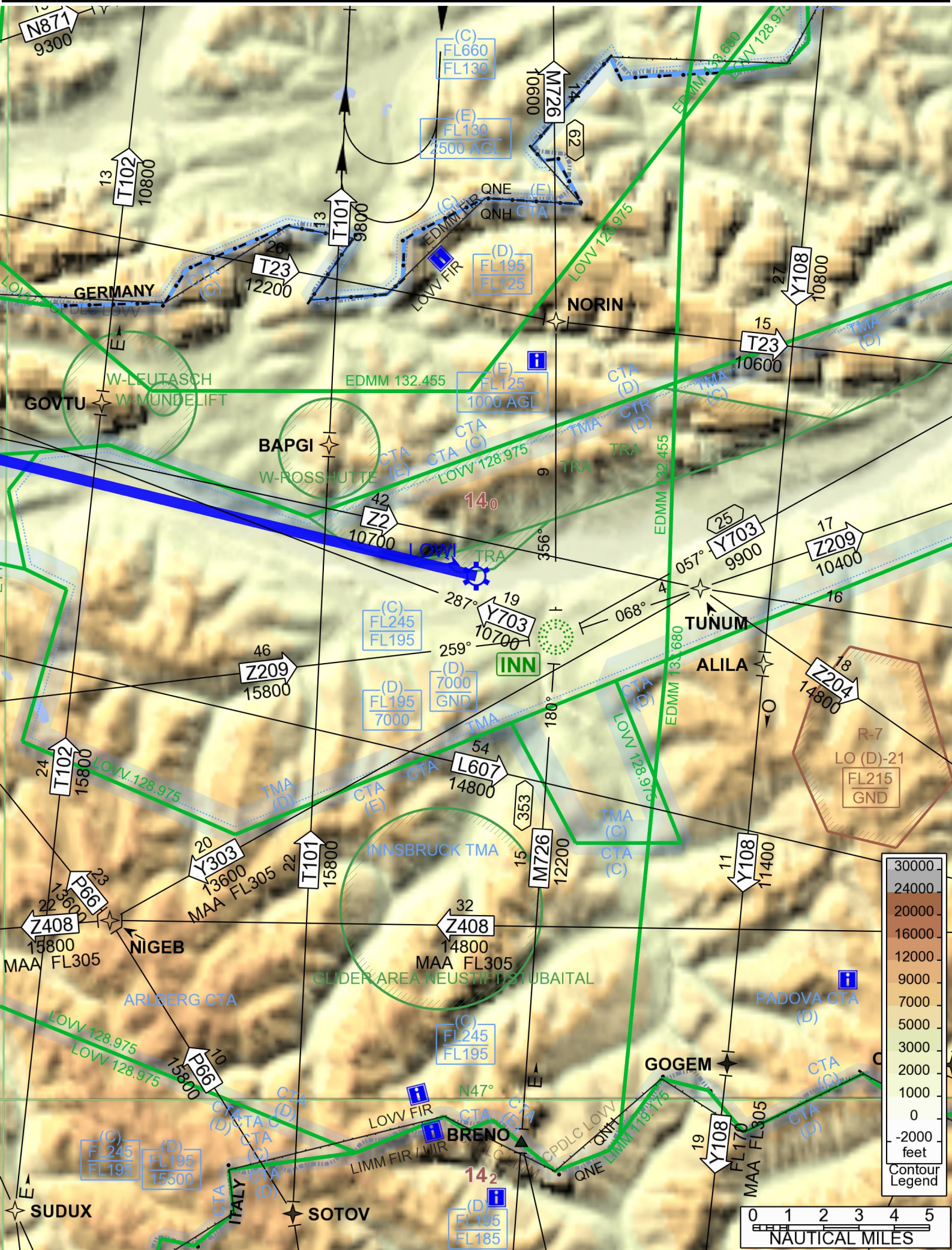
Terminal Charts For LOWI



30000
24000
20000
16000
12000
9000
7000
5000
3000
2000
1000
0
-2000
feet

















## General Information

Location: FRANKFURT/MAIN DEU

ICAO/IATA: EDDF / FRA

Lat/Long: N50° 02.0', E008° 34.2'

Elevation: 364 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: 0620 Z

Sunset: 1658 Z

## Runway Information

Runway: 07C

Length x Width: 13123 ft x 197 ft

Surface Type: asphalt

TDZ-Elev: 329 ft

Lighting: Edge, ALS, Centerline, TDZ

Runway: 07L

Length x Width: 9186 ft x 148 ft

Surface Type: concrete

TDZ-Elev: 305 ft

Lighting: Edge, ALS, Centerline, TDZ

Runway: 07R

Length x Width: 13123 ft x 148 ft

Surface Type: asphalt

TDZ-Elev: 328 ft

Lighting: Edge, ALS, Centerline, TDZ

Runway: 18

Length x Width: 13123 ft x 148 ft

Surface Type: concrete

TDZ-Elev: 326 ft

Lighting: Edge, Centerline



Runway: 25C  
Length x Width: 13123 ft x 197 ft  
Surface Type: asphalt  
TDZ-Elev: 364 ft  
Lighting: Edge, ALS, Centerline, TDZ

Runway: 25L  
Length x Width: 13123 ft x 148 ft  
Surface Type: asphalt  
TDZ-Elev: 362 ft  
Lighting: Edge, ALS, Centerline, TDZ

Runway: 25R  
Length x Width: 9186 ft x 148 ft  
Surface Type: concrete  
TDZ-Elev: 353 ft  
Lighting: Edge, ALS, Centerline, TDZ

## Communication Information

ATIS: 118.730 Departure Service  
ATIS: 118.030 Arrival Service  
Frankfurt Tower: 118.780  
Frankfurt Tower: 119.905  
Frankfurt Tower: 124.855  
Frankfurt Tower: 127.330 Secondary  
Frankfurt Tower: 136.500  
Frankfurt Ground: 121.805  
Frankfurt Apron Ramp/Taxi: 121.965  
Frankfurt Apron Ramp/Taxi: 121.955  
Frankfurt Apron Ramp/Taxi: 121.855  
Frankfurt Apron Ramp/Taxi: 121.755  
Frankfurt Apron Ramp/Taxi: 121.705  
Frankfurt Apron Ramp/Taxi: 121.655  
Frankfurt Delivery Clearance Delivery: 121.905  
Langen Radar Approach: 119.030 Secondary RCO  
Langen Radar Approach: 125.355 RCO  
Langen Radar Approach: 120.155 RCO  
Langen Radar Approach: 120.805 RCO  
Langen Radar Approach: 126.555 RCO  
Langen Radar Approach: 136.130 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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- 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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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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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

Reverse thrust must not be used on the entire RWY system of Frankfurt/Main APT; except for safety reasons in unavoidable cases. This does not apply to idle reverse thrust.

### 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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### 1.3.1.2. 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, is in operation.

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

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

Pilots shall:

Select AUTO mode and assigned Mode A code. If AUTO mode is not available, select ON (e.g. XPDR) and assigned Mode A code.

- 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.

Whenever ACFT is capable of reporting ACFT ident (through the FMS or the transponder control panel), ACFT ident shall also be entered from request for push-back or taxi, whichever is earlier. Aircrew must use ICAO defined format for entry of ACFT ident (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 STBY.

## 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.

TWYs N blue, N orange, N7 blue, N7 orange, N8 blue, N8 orange and western link between TWYs S33 and S MAX wingspan 118'/36m.

TWY N South MAX wingspan 171'/52m.

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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### 1.5.2. 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.

Heavy ACFT taxiing on apron shall apply minimum thrust only. 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 stands S401, S402, S404, S406, S408, S410, S412, S414, S416, S418, S420 and 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.

### 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.



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### 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.

#### 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.

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### 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.

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, B42 thru B48, C4, C5, C6, C8, C11, C13, C14, 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 G6, G8, H2 thru H6, K2 thru 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.

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## 2. ARRIVAL

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### 2.1. NOISE ABATEMENT PROCEDURES

Between 2300-0500LT all inbound ACFT should expect clearances whereby final will be reached not closer to the APT than:

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

These "final-interception points" correspond to the GPS/FMS waypoints DF622 (RWYs 25C/L) and DF652 (RWYs 07C/R). 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'.

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 (approximately 200-220 KT when leaving FL070) and are urgently requested to perform their descent from FL070 as a continuous descent whenever possible.

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

Requests for non-precision approaches for training purposes will be denied.

The above procedures will not be applied to:

- Flights with STS/HOSP;
- Flights in adverse weather conditions; and
- Flights in emergency situations.

Between 2300-0500LT approaching ACFT shall wait for clearances with the information that the final approach tracks can only be reached at a distance of 5.0NM (RWY 25C/25L) and 5.1NM (RWY 07C/07R) in front of the THR.

These "final approach points" correspond to the GPS/FMS waypoints RATRU (25C), TITUT (25L) as well as TIXAK (07C) and BOGVO (07R).

In addition, pilots should be prepared not to expect a descent clearance below FL070 until 6NM prior to reaching KUGUK and/or ORVIV (25C/25L) and 6NM prior to reaching ULNOK and/or IBLUS (07C/07R). Pilots shall adjust their speed accordingly (approx. 200-220 KT when leaving FL070) and are urgently requested to conduct the descent from FL070 as continuous descent, whenever possible.



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## 2. ARRIVAL

These procedures may not be applied to:

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

In the case that R-NAV (GPS) approach procedures cannot be applied due to the absence of RNAV (GPS) equipment, pilots will be issued with a clearance for an ILS approach (in compliance with the night approach procedure above).

In the case of the ILS not being available, i.e. for clearances for non-precision approaches, approach control will issue descent clearances after 4000'.

### 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

Irrespective of the arrival route, approaching ACFT that have been assigned an ACFT stand in the southern area of the APT (Cargo City South, GAT, Terminal 3) will be guided by Approach Control preferably to RWY 07R/25L. As a rule, this RWY will also be assigned to ACFT to be parked on the Eastern section of the Northern apron.

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

**FRANKFURT DIRECTOR + CALLSIGN**

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.

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## 2. ARRIVAL

### 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.

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. DE-ICING

##### 3.1.1. 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.

##### 3.1.2. 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.

##### 3.1.3. 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.

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. DEPARTURE

#### 3.2. START-UP AND TAXI PROCEDURES

##### 3.2.1. 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.

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

##### 3.2.2. 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.

##### 3.2.3. 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.

##### 3.2.3.1. VOICE COMMUNICATION

Standard taxi route TRANSITION 1.

ACFT CALL SIGN.

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

#### 3.3. NOISE ABATEMENT PROCEDURES

##### 3.3.1. 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 FPL according to this guideline. Different SID in FPL 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			RWY 25C for DEP to the NW (OBOKA), N (MARUN), NE (TOBAK). RWY 25L with special authorization by TWR only . RWY 18 for DEP to the SW (SOBRA, ULKIG), S (ANEKI), SE (CINDY), E (SULUS).	



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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 FPL according to this guide-line. Different SID in FPL 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
<b>07/18</b>			RWY 07C for DEP to the NW (OBOKA), N (MARUN), NE (TOBAK), E (SULUS) and EDDN Area (KOMIB). RWY 07R with special authorization by TWR only. RWY 18 for DEP to the SW (SOBRA, ULKIG), S (ANEKI), SE (CINDY).	
<b>25</b>	<b>C + L</b>	<b>FOXTROT</b>	2-engined HEAVY ACFT to the N, NE.	BRNAV
	<b>C + L</b>	<b>GOLF</b>	2-engined HEAVY ACFT to the NW, N, NE.	BRNAV
			All ACFT to the NW, N, NE unable to comply with restrictions on SIDs northbound.	
	<b>C</b>	<b>MIKE</b>	All ACFT, except 2-engined HEAVY ACFT, to the NW, N, NE unable WHISKEY.	BRNAV
	<b>C</b>	<b>WHISKEY</b>	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*
	<b>L</b>	<i>HOTEL</i>	All ACFT RWY 25L (with special authorization by TWR only), except 2-engined HEAVY ACFT, to the NW, N, NE.	BRNAV
	<b>L</b>	<i>KILO</i>		RNP-1*
	<b>C + L</b>	<b>NOVEMBER</b>	Between 2200-0700LT: All 3- and 4-engined HEAVY and SUPER ACFT, B727 and YK42 due to noise abatement.	BRNAV
	<b>C + L</b>	<b>PAPA</b>	Single- and Twin-Props and DASH 7 may use PAPA instead of RWY18 to the SW.	BRNAV
<b>C + L</b>	<b>QUEBEC</b>	NON-RNAV equipped ACFT.		

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

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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 FPL according to this guide-line. Different SID in FPL 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	NON-RNAV equipped ACFT.	
	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		ALPHA	All ACFT to the S, SE (by ATC only).	RNAV-1*
		LIMA	All ACFT to the SW, S, SE.	BRNAV or 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).	BRNAV
		ROMEO	Between 2300-0600LT: All ACFT to the NW, N, NE (by ATC only).	BRNAV
		TANGO	Contingency SID under special circumstances, e.g. closure RWY 07 (by ATC only).	BRNAV

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

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### 3. DEPARTURE

#### 3.3.2. ADDITIONAL NOISE ABATEMENT MEASURES

##### 3.3.2.1. 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](http://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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### 3. DEPARTURE

#### 3.3.3. 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.

#### 3.4. RWY OPERATIONS

##### 3.4.1. 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.

##### 3.4.2. 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.

#### 3.5. OTHER INFORMATION

##### 3.5.1. 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.

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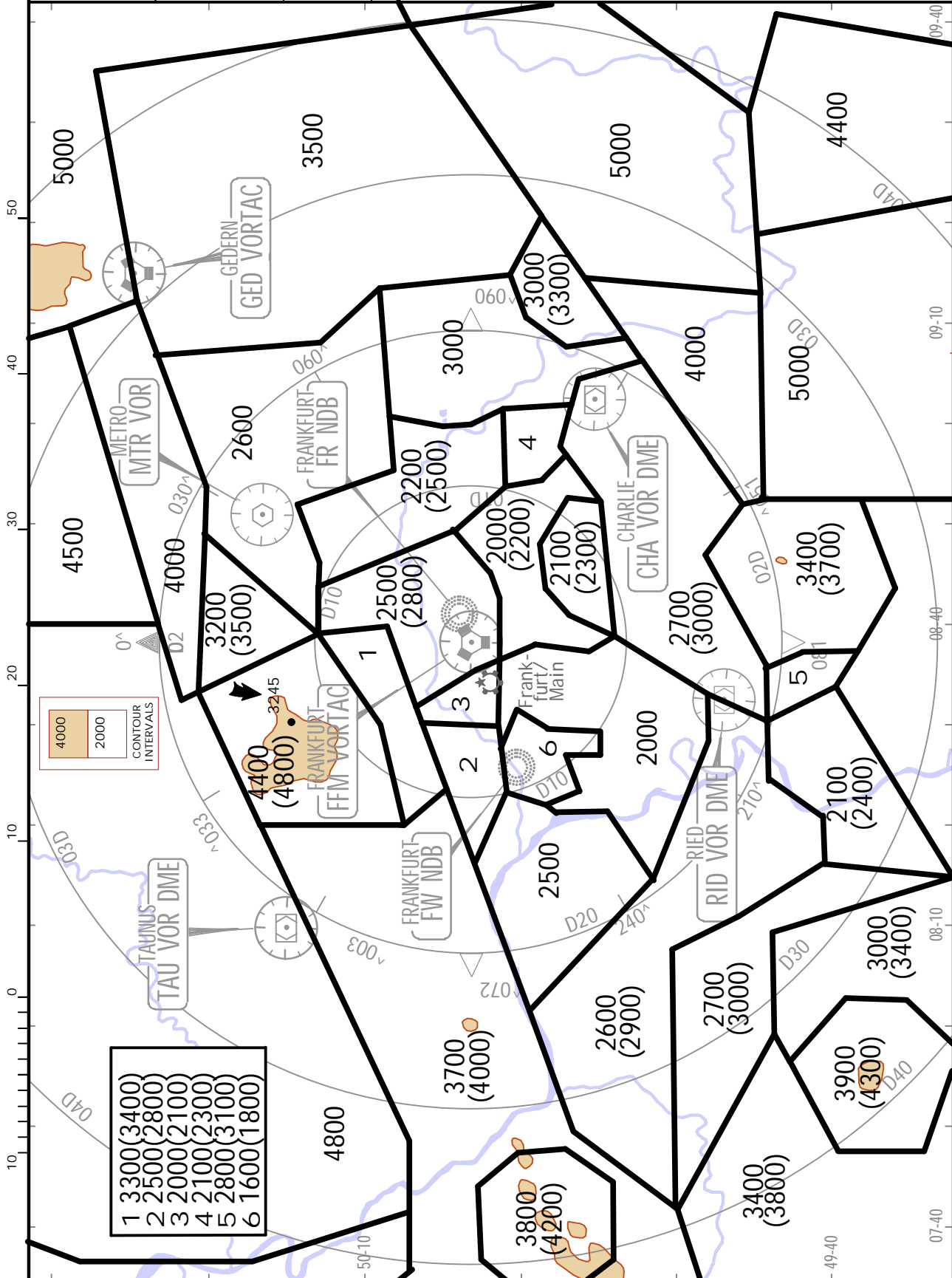
JEPPESSEN 30 APR 21 (10-1R)

# FRANKFURT/MAIN, GERMANY .RADAR.MINIMUM.ALTITUDES.

LANGEN Radar (APP)	
ARRIVAL	DEPARTURE
* 119.030	* 126.555
North	North
120.805	* 120.155
South	South
* 125.355	136.130

Apt Elev  
364

Alt Set: hPa (IN on request)  
 Trans level: By ATC Trans alt: 5000'  
 The MVA is the lowest altitude which may be used for vectors for IFR flights taking into account the minimum safe height (1000' above the highest obstacle within a radius of 8 km) and airspace structure (lower limit of the controlled airspace plus a buffer of 500'). Below the MVA, IFR flights will normally be cleared on published IFR procedures only.  
 Altitudes in brackets generally apply for the period from AIRAC date in November until AIRAC date in March in order to meet required obstacle clearance at cold temperatures.



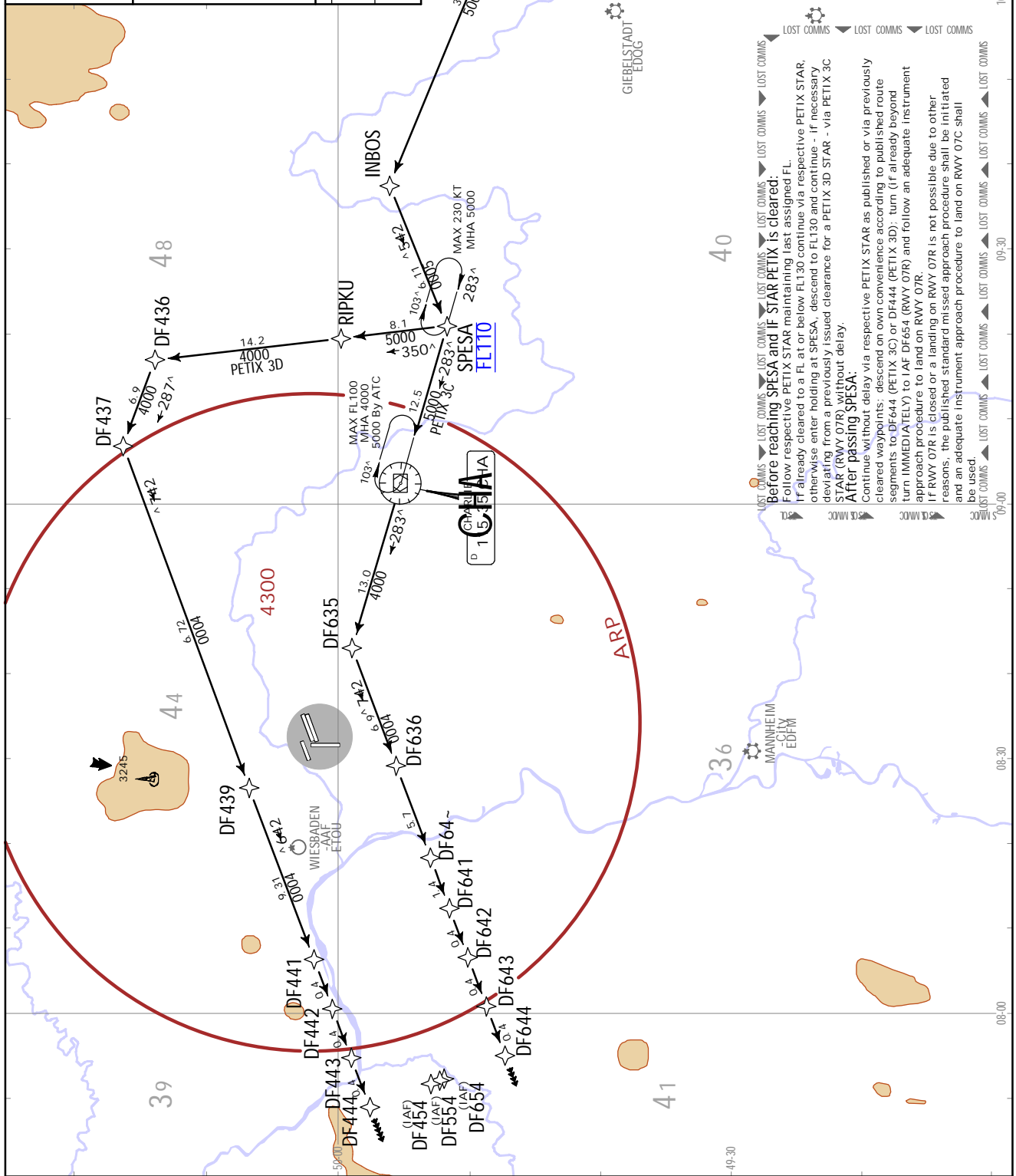
CHANGES: Sectors & altitudes Southwest of ARP revised.

**FRANKFURT/MAIN GERMANY**  
**RNAV .STAR.**

**JEPPESEN**  
 29 OCT 21 (10-2) Eff. 4 NOV.

*D-ATIS 118.030	Apt Elev 364	Alt Sct: RPA (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.
--------------------	-----------------	--

<b>PETIX 3C [PETI3C] PETIX 3D [PETI3D] RNAV ARRIVALS (RWYS 07L/C/R) BY ATC</b>	<b>ROUTING</b>
<b>.SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC NOT APPLICABLE WITHIN AIRSPACE C</b>	PETIX - ODEGU - KEPIT - SUKAD - REKDI - OLALI - INBOS - SPESA (FL110) - CHA - DF635 - DF636 - DF64 - DF641 - DF642 - DF643 - DF644.
	PETIX - ODEGU - KEPIT - SUKAD - REKDI - OLALI - INBOS - SPESA (FL110) - RIPKU - DF436 - DF437 - DF439 - DF441 - DF442 - DF443 - DF444.



**LOST COMMS**

Before reaching SPESA and IF STAR PETIX is cleared:  
 Follow respective PETIX STAR maintaining last assigned FL.  
 If already cleared to a FL at or below FL130 continue via respective PETIX STAR, otherwise enter holding at SPESA, descend to FL130 and continue - if necessary deviating from a previously issued clearance for a PETIX 3D STAR - via PETIX 3C STAR (RWY 07R) without delay.

**After passing SPESA:**  
 Continue without delay via respective PETIX STAR as published or via previously cleared waypoints; descend on own convenience according to published route segments to DF644 (PETIX 3C) or DF444 (PETIX 3D); turn (if already beyond turn IMMEDIATELY) to IAF DF654 (RWY 07R) and follow an adequate instrument approach procedure to land on RWY 07R.  
 If RWY 07R is closed or a landing on RWY 07R is not possible due to other reasons, the published standard missed approach procedure shall be initiated and an adequate instrument approach procedure to land on RWY 07C shall be used.

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**FRANKFURT/MAIN GERMANY**  
**RNAV STAR**

**JEPPESEN**  
 9 JUL 21 (10-2B) . Eff. 15 Jul.

Alt Set: RPA (IN on request) Trans level: By ATC	Apt Elev 364
1. RNAV (GPS, DME/DME, DME/DME/IRU). 2. RNAV 1 required. 3. RADAR required. 4. Maintain downwind track beyond end point if no succeeding instruction (vector/clearance for approach) is received. 5. If unable to comply with level restrictions advise ATC.	*D-ATIS 118.030

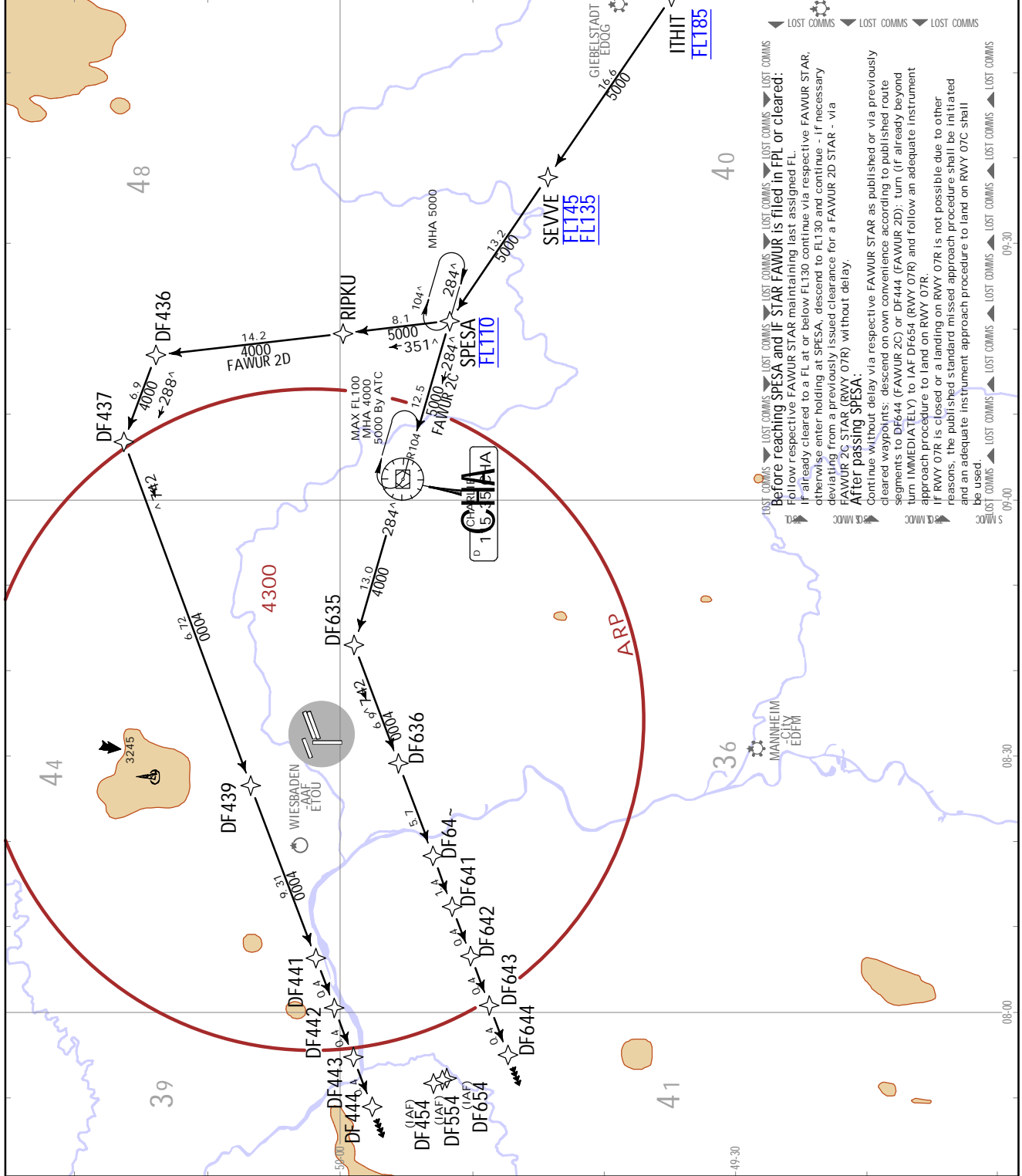
**FAWUR 2C [FAWU2C]  
 FAWUR 2D [FAWU2D]  
 RWYS 07L/C/R RNAV ARRIVALS  
 .SPEED: MAX 250 KT BELOW FL100  
 OR AS BY ATC  
 NOT APPLICABLE WITH AIRSPACE C**

**SPEED RESTRICTION**  
 Initiate descent with last MACH number, on speed transition MAINTAIN 280 KT +/- 20 KT until SPESA or unless otherwise instructed by ATC.

**ROUTING**

<b>STAR</b>	FAWUR (FL240) - BOWEK - ITHIT (FL185) - SEVVE (FL145) - FL135+ - SPESA (FL110) - CHA - DF635 - DF636 - DF640 - DF641 - DF642 - DF643 - DF644.
<b>FAWUR 2C</b>	FAWUR (FL240) - BOWEK - ITHIT (FL185) - SEVVE (FL145) - FL135+ - SPESA (FL110) - RIPKU - DF436 - DF437 - 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)'. clearance. Non-adherence may lead to separation infringement. Do not descend below the FL cleared by ATC.



**LOST COMMS**  
 Before reaching SPESA and if STAR FAWUR is filed in FPL or cleared:  
 Follow respective FAWUR STAR maintaining last assigned FL.  
 If already cleared to a FL at or below FL130 continue via respective FAWUR STAR, otherwise enter holding at SPESA, descend to FL130 and continue - if necessary FAWUR 2C STAR (RWY 07R) without delay.  
**After passing SPESA:**  
 Continue without delay via respective FAWUR STAR as published or via previously cleared waypoints; descend on own convenience according to published route segments to DF644 (FAWUR 2C) or DF444 (FAWUR 2D); turn (if already beyond turn IMMEDIATELY) to IAF DF654 (RWY 07R) and follow an adequate instrument approach procedure to land on RWY 07R.  
 If RWY 07R is closed or a landing on RWY 07R is not possible due to other reasons, the published standard missed approach procedure shall be initiated and an adequate instrument approach procedure to land on RWY 07C shall be used.

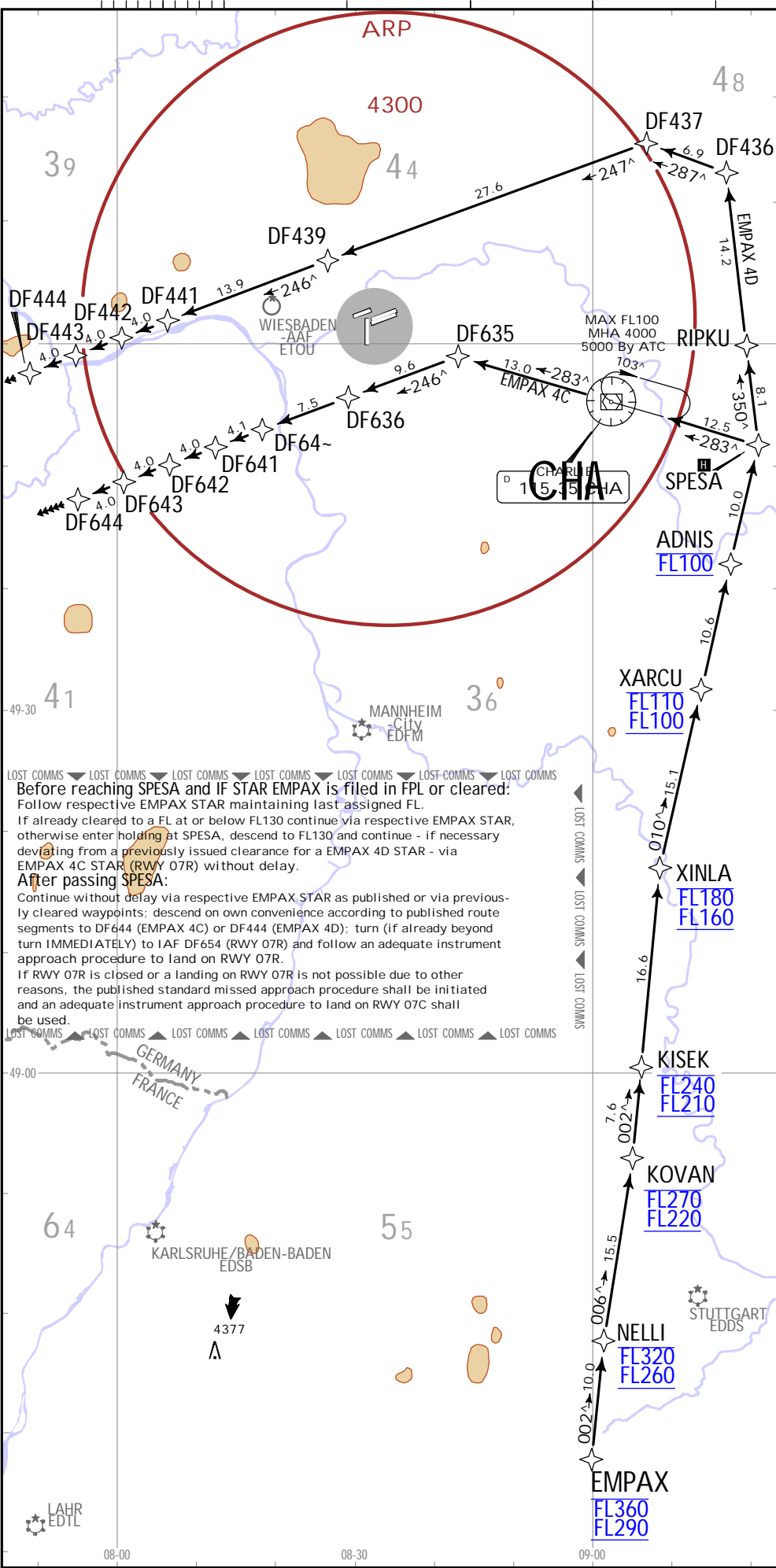
**EDDF/FRA**  
 FRANKFURT/MAIN





CHANGES: RNAV STARs renumbered & revised

EDDF/FRA  
FRANKFURT/MAIN



*D-ATIS 118.030	Apt Elev 364
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.	
<b>EMPAX 4C [EMPA4C]</b> <b>EMPAX 4D [EMPA4D]</b> <b>RNAV ARRIVALS</b> <b>(RWYS 07L/C/R)</b> <b>.SPEED: MAX 250 KT BELOW FL100</b> <b>OR AS BY ATC</b> <b>NOT APPLICABLE WITHIN AIRSPACE C</b>	
<b>SPEED RESTRICTION</b> Initiate descent with last MACH number, on speed transition MAINTAIN 280 KT +/- 20 KT until SPESA or unless otherwise instructed by ATC.	
STAR	ROUTING
EMPAX 4C	EMPAX (FL360-; FL290+) - NELLI (FL320-; FL260+) - KOVAN (FL270-; FL220+) - KISEK (FL240-; FL210+) - XINLA (FL180-; FL160+) - XARCU (FL110-; FL100+) - ADNIS (FL100) - SPESA - CHA - DF635 - DF636 - DF64- - DF641 - DF642 - DF643 - DF644.
EMPAX 4D By ATC	EMPAX (FL360-; FL290+) - NELLI (FL320-; FL260+) - KOVAN (FL270-; FL220+) - KISEK (FL240-; FL210+) - XINLA (FL180-; FL160+) - XARCU (FL110-; FL100+) - ADNIS (FL100) - SPESA - RIPKU - DF436 - DF437 - DF439 - DF441 - DF442 - DF443 - DF444.

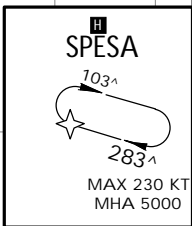
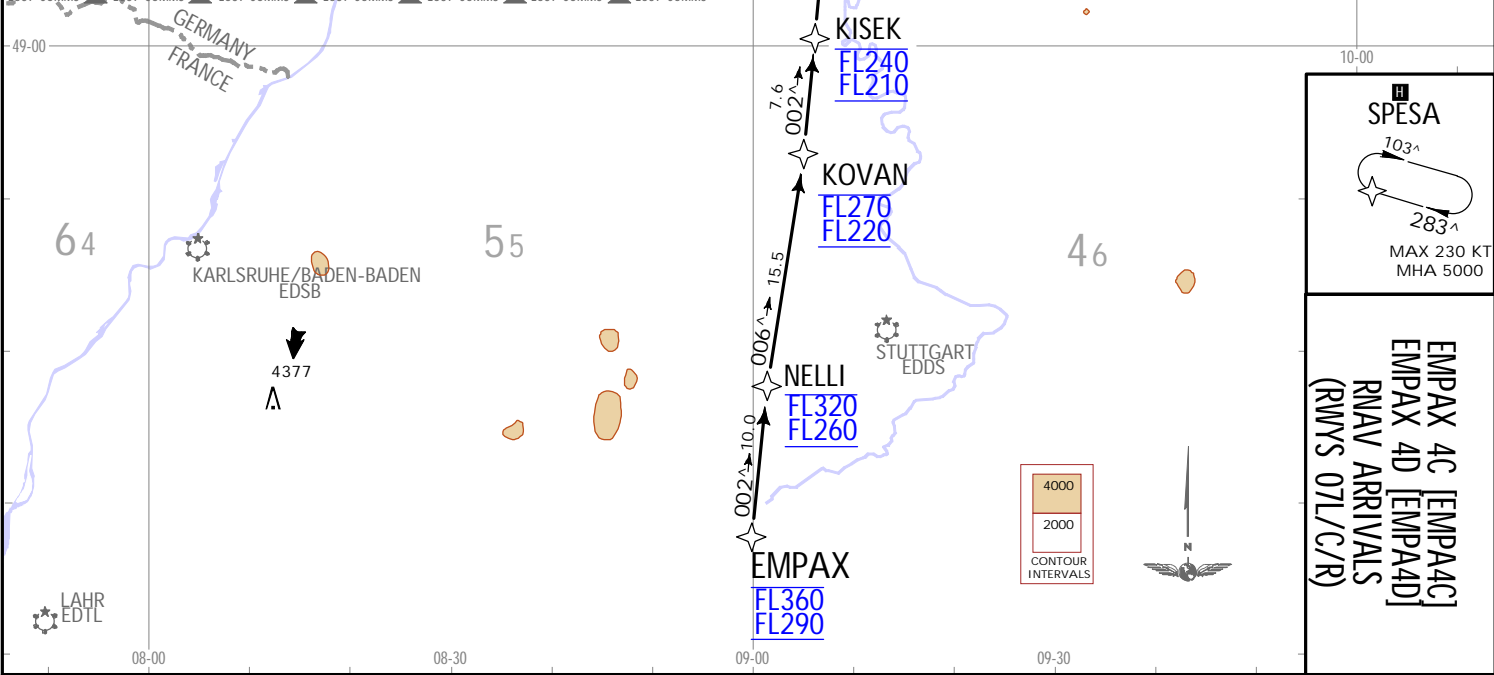
LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼

**Before reaching SPESA and IF STAR EMPAX is filed in FPL or cleared:**  
Follow respective EMPAX STAR maintaining last assigned FL.  
If already cleared to a FL at or below FL130 continue via respective EMPAX STAR, otherwise enter holding at SPESA, descend to FL130 and continue - if necessary deviating from a previously issued clearance for a EMPAX 4D STAR - via EMPAX 4C STAR (RWY 07R) without delay.

**After passing SPESA:**  
Continue without delay via respective EMPAX STAR as published or via previously cleared waypoints: descend on own convenience according to published route segments to DF644 (EMPAX 4C) or DF444 (EMPAX 4D); turn (if already beyond turn IMMEDIATELY) to IAF DF654 (RWY 07R) and follow an adequate instrument approach procedure to land on RWY 07R.  
If RWY 07R is closed or a landing on RWY 07R is not possible due to other reasons, the published standard missed approach procedure shall be initiated and an adequate instrument approach procedure to land on RWY 07C shall be used.

LOST COMMS ▲ LOST COMMS ▲ LOST COMMS ▲ LOST COMMS ▲ LOST COMMS ▲ LOST COMMS ▲ LOST COMMS ▲ LOST COMMS ▲

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.



**EMPAX 4C [EMPA4C]**  
**EMPAX 4D [EMPA4D]**  
**RNAV ARRIVALS**  
**(RWYS 07L/C/R)**

28 OCT 22 10-2D Eff. 3. Nov. JEPPESEN FRANKFURT/MAIN, GERMANY RNAV STAR.

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**EDDF/FRA**  
FRANKFURT/MAIN

**JEPPESEN** FRANKFURT/MAIN, GERMANY  
29 OCT 21 (10-2G) Eff. 4 Nov.  
RNAV STAR

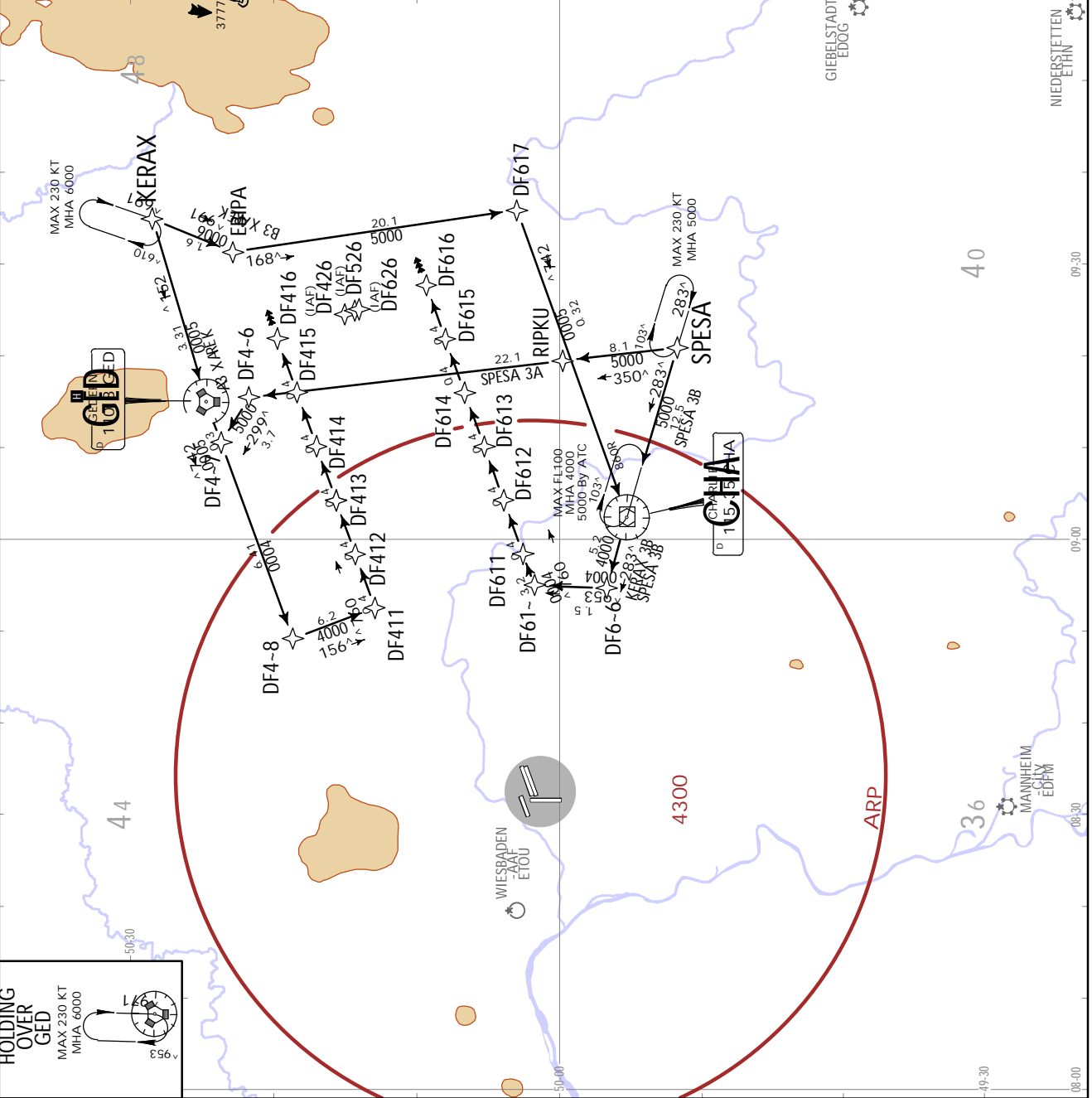
\*D-ATIS  
118.030  
Apt Elev 364

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.

**KERAX 3A [KERA3A]  
KERAX 3B [KERA3B]  
SPESA 3A [SPES3A]  
SPESA 3B [SPES3B]**

**RNAV ARRIVALS  
(RWYS 25L/C/R)  
.SPEED: MAX 250 KT BELOW FL100  
OR AS BY ATC  
NOT APPLICABLE WITHIN AIRSPACE C**

STAR	ROUTING
KERAX 3A	KERAX - GED - DF4-7 - DF4-8 - DF411 - DF412 - DF413 - DF414 - DF415 - DF416.
KERAX 3B	KERAX - EBIPA - DF617 - CHA - DF6-6 - DF611 - DF612 - DF613 - DF614 - DF615 - DF616.
SPESA 3A By ATC	SPESA - RIPKU - DF4-6 - DF4-7 - DF4-8 - DF411 - DF412 - DF413 - DF414 - DF415 - DF416.
SPESA 3B	SPESA - CHA - DF6-6 - DF611 - DF612 - DF613 - DF614 - DF615 - DF616.



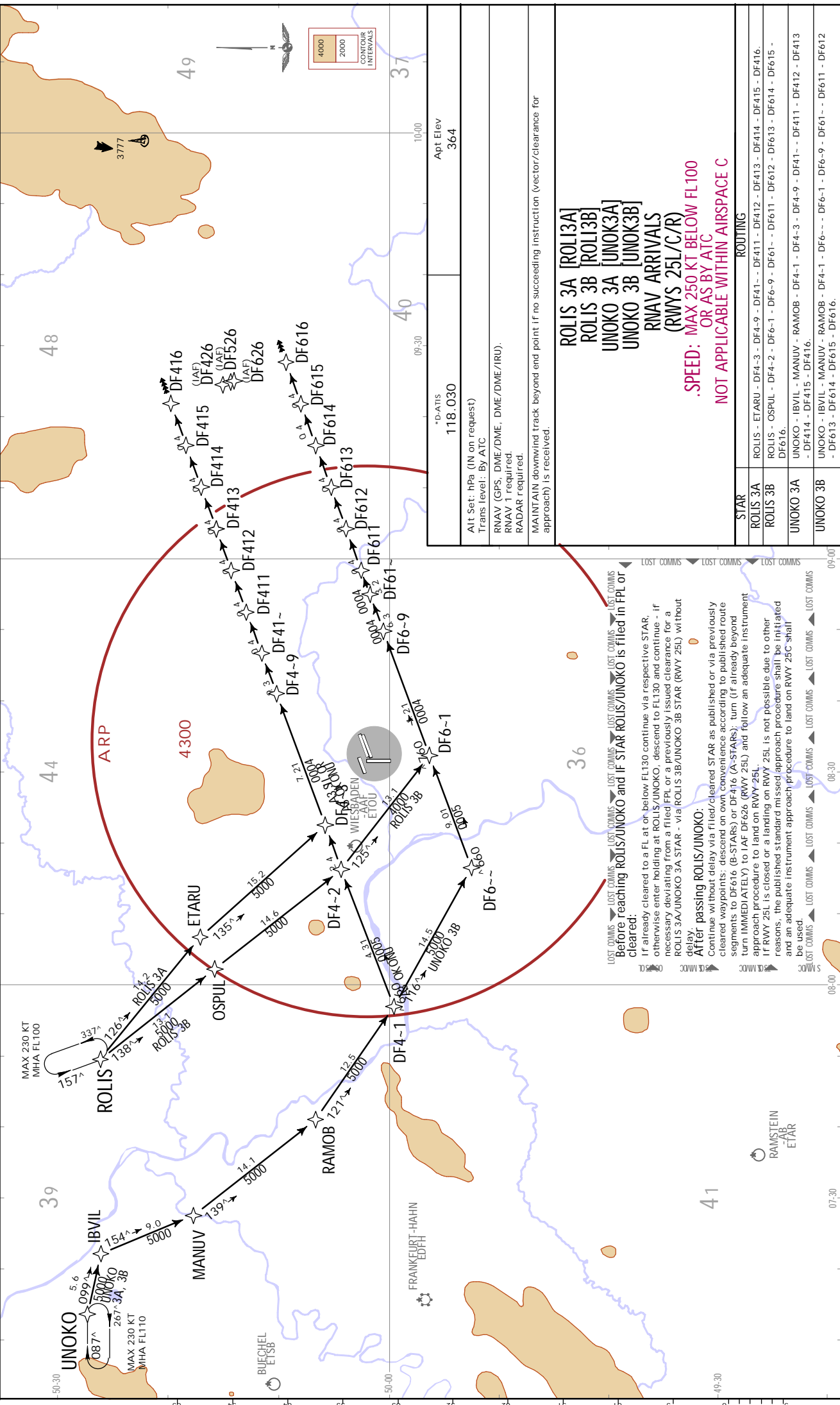
**LOST COMMS** Before reaching KERAX/SPESA and if STAR KERAX/SPESA is filed in FPL or cleared:  
 If already cleared to a FL at or below FL130 continue via respective STAR, otherwise enter holding at KERAX/SPESA, descend to FL130 and continue. If necessary deviating from a previously issued clearance for a KERAX 3A/SPESA 3A STAR - via KERAX 3B/SPESA 3B STAR (RWY 25L) without delay.  
**After passing KERAX/SPESA:**  
 Continue without delay via filed/cleared STAR as published or via previously cleared waypoints; descend on own convenience according to published route segments to DF616 (B-STARS) or DF416 (A-STARS); turn (if already beyond approach procedure) to IAF DF626 (RWY 25L) and follow an adequate instrument approach procedure to land on RWY 25L.  
 If RWY 25L is closed or a landing on RWY 25L is not possible due to other reasons, the published standard missed approach procedure shall be initiated and an adequate instrument approach procedure to land on RWY 25C shall be used.



**EDDF/FRA**  
FRANKFURT/MAIN

**JEPPESEN**  
FRANKFURT/MAIN, GERMANY  
RVAV STAR

29 OCT 21  
(10-2J) Eff. 4 Nov.







# EDDF/FRA

FRANKFURT/MAIN

28 OCT 22

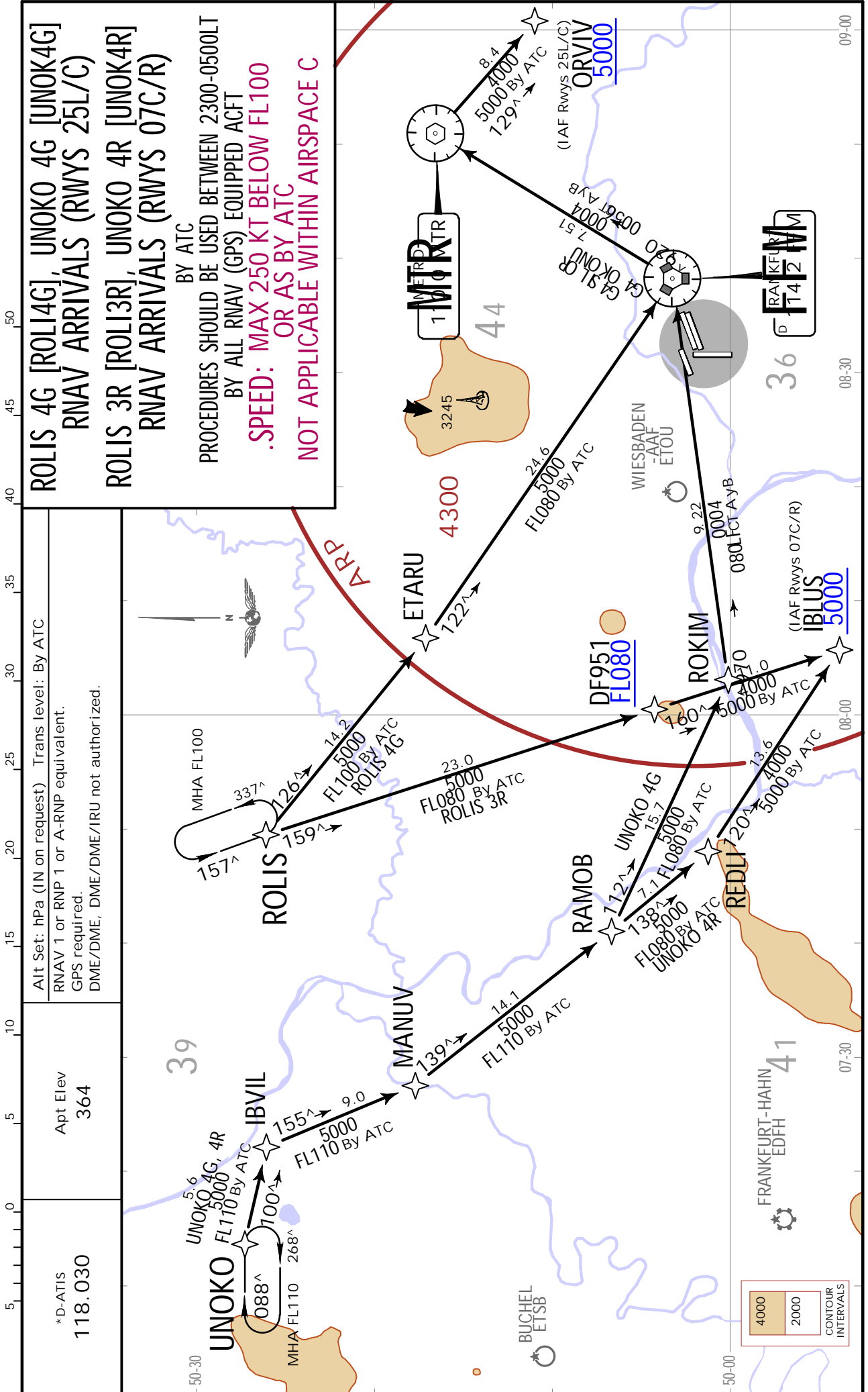
10-2L

.Eff.3.Nov.



# JEPPESSEN FRANKFURT/MAIN, GERMANY

.RNAV.STAR.



**EDDF/FRA**  
**FRANKFURT/MAIN**  
**GERMANY**  
**.STAR.**

\*D-ATIS  
**118.030**

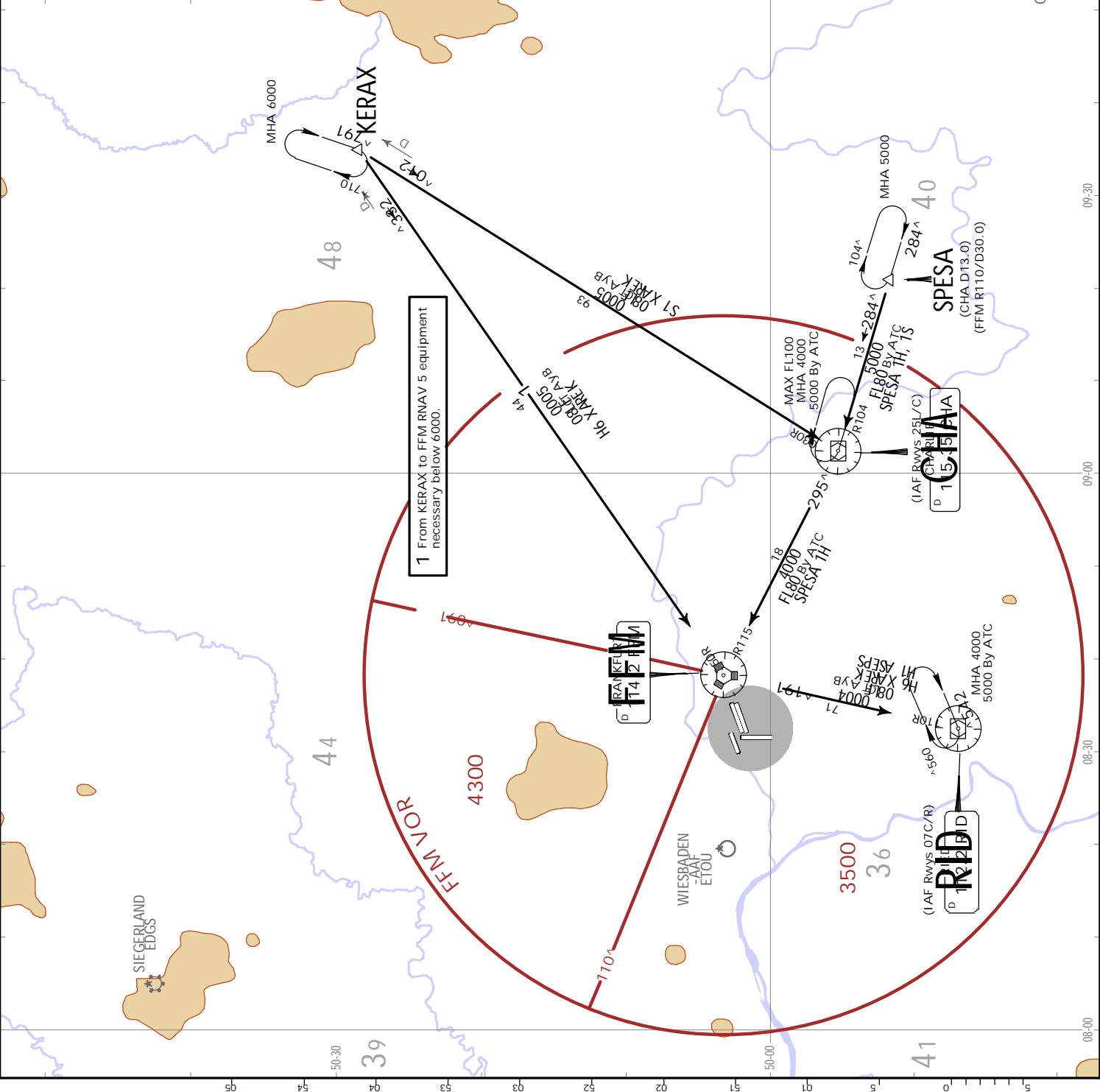
Apt Elev  
**364**

Alt Set: hPa (IN on request)  
 Trans level: By ATC  
 EXPECT RADAR vectors to final approach.

**KERAX 6H [KERA6H]**  
**SPESA 1H [SPES1H]**  
**RWYS 07C/R ARRIVALS**

**KERAX 1S [KERA1S]**  
**SPESA 1S [SPES1S]**  
**RWYS 25L/C ARRIVALS**

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

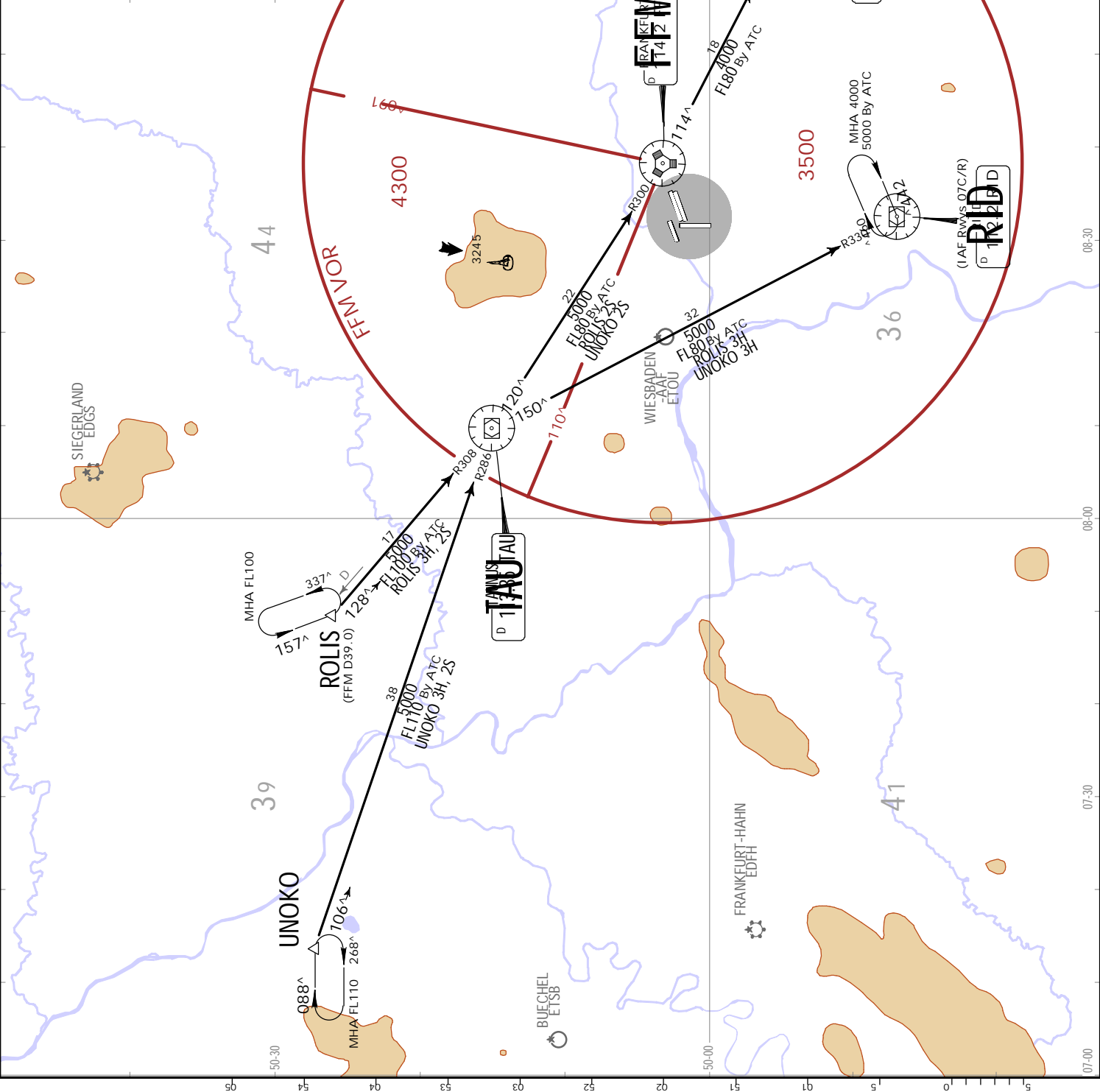


EDDF/FRA  
FRANKFURT/MAIN

JEPPESEN  
29 OCT 21 (10-2N) .Eff. 4. Nov.

FRANKFURT/MAIN, GERMANY  
STAR.

*D-ATIS <b>118.030</b>	Apt Elev <b>364</b>	Alt. Set: hPa (IN on request) Trans level: By ATC EXPECT RADAR vectors to final approach.
<p><b>ROLIS 3H [ROLI3H]</b>  <b>UNOKO 3H [UNOK3H]</b>                  RWYS 07C/R ARRIVALS</p> <p><b>ROLIS 2S [ROLI2S]</b>  <b>UNOKO 2S [UNOK2S]</b>                  RWYS 25L/C ARRIVALS</p> <p><b>.SPEED: MAX 250 KT BELOW FL100</b>  <b>OR AS BY ATC</b>  <b>NOT APPLICABLE WITHIN AIRSPACE C</b></p>		



EDDF/FRA  
FRANKFURT/MAIN

28 OCT 22

10-3

.Eff.3.Nov.

JEPPesen FRANKFURT/MAIN, GERMANY

.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
SOBRA 2L	10-3C5
SULUS 3A	10-3C6
TOBAK 3K	10-3C7
TOBAK 3W	10-3C8
SID DESIGNATION	REFER TO CHART
ANEKI 2D, 4E	10-3C9
ANEKI 1F, 1L	10-3C10
CINDY 1D	10-3D
CINDY 2F	10-3E
CINDY 2L, 4S	10-3E1
KOMIB 3D	10-3E2
MARUN 9D, 5E	10-3E3
MARUN 6F, 9G	10-3E4
MARUN 5H	10-3E5
MARUN 7M	10-3E6
MARUN 9N	10-3E7
MARUN 3R	10-3E8
MARUN 7S	10-3E9
MARUN 5T	10-3F
METRO 5C	10-3G
OBOKA 1D, 1E	10-3G1
OBOKA 2G	10-3G2
FOR FURTHER SID DESIGNATION REFER TO PAGE 10-3A	



EDDF/FRA  
FRANKFURT/MAIN

 **JEPPesen** FRANKFURT/MAIN, GERMANY  
28 OCT 22 (10-3A) .Eff.3.Nov.

.SID.

SID DESIGNATION	REFER TO CHART
OBOKA 2H	10-3G3
OBOKA 2M	10-3G4
OBOKA 4N	10-3G5
OBOKA 1L, 3S	10-3G6
OBOKA 1R	10-3H
OBOKA 2T	10-3J
RIED 8C, 3Q	10-3J1
SOBRA 6D	10-3J2
SOBRA 6E	10-3K
SOBRA 7F, 7N, 6P	10-3L
SULUS 1D	10-3L1
SULUS 2F	10-3L2
SULUS 1L, 3S	10-3L3
TAUNUS 2Q	10-3L4
TOBAK 9D	10-3L5
TOBAK 7F, 1G	10-3L6
TOBAK 5H	10-3L7
TOBAK 7M	10-3L8
TOBAK 2N	10-3M
TOBAK 3R	10-3N
TOBAK 9S	10-3N1
TOBAK 7T	10-3N2
ULKIG 1L, 2S	10-3N3

FOR RNAV SID (OVERLAY) DESIGNATION REFER TO PAGE 10-3A1

EDDF/FRA  
FRANKFURT/MAIN

 **JEPPESEN** FRANKFURT/MAIN, GERMANY  
29 OCT 21 (10-3A1) .Eff.4.Nov.

.RNAV.SID.(OVERLAY).

RNAV SID DESIGNATION	REFER TO CHART
ANEKI 2D, 4E	10-3N4
ANEKI 1F, 1L	10-3N5
CINDY 1D	10-3N6
CINDY 2F	10-3N7
CINDY 2L, 4S	10-3N8
KOMIB 3D	10-3N9
MARUN 9D, 5E	10-3P
MARUN 6F, 9G	10-3Q
MARUN 5H	10-3Q1
MARUN 7M	10-3Q2
MARUN 9N	10-3Q3
MARUN 3R	10-3Q4
MARUN 7S	10-3Q5
MARUN 5T	10-3Q6
OBOKA 1D, 1E	10-3Q7
OBOKA 2G	10-3S
OBOKA 2H	10-3T
OBOKA 2M	10-3T1
OBOKA 4N	10-3T2
OBOKA 1L, 3S	10-3T3
OBOKA 1R	10-3T4
OBOKA 2T	10-3T5
SOBRA 6D	10-3T6
SOBRA 6E	10-3U
SOBRA 7F, 7N, 6P	10-3V

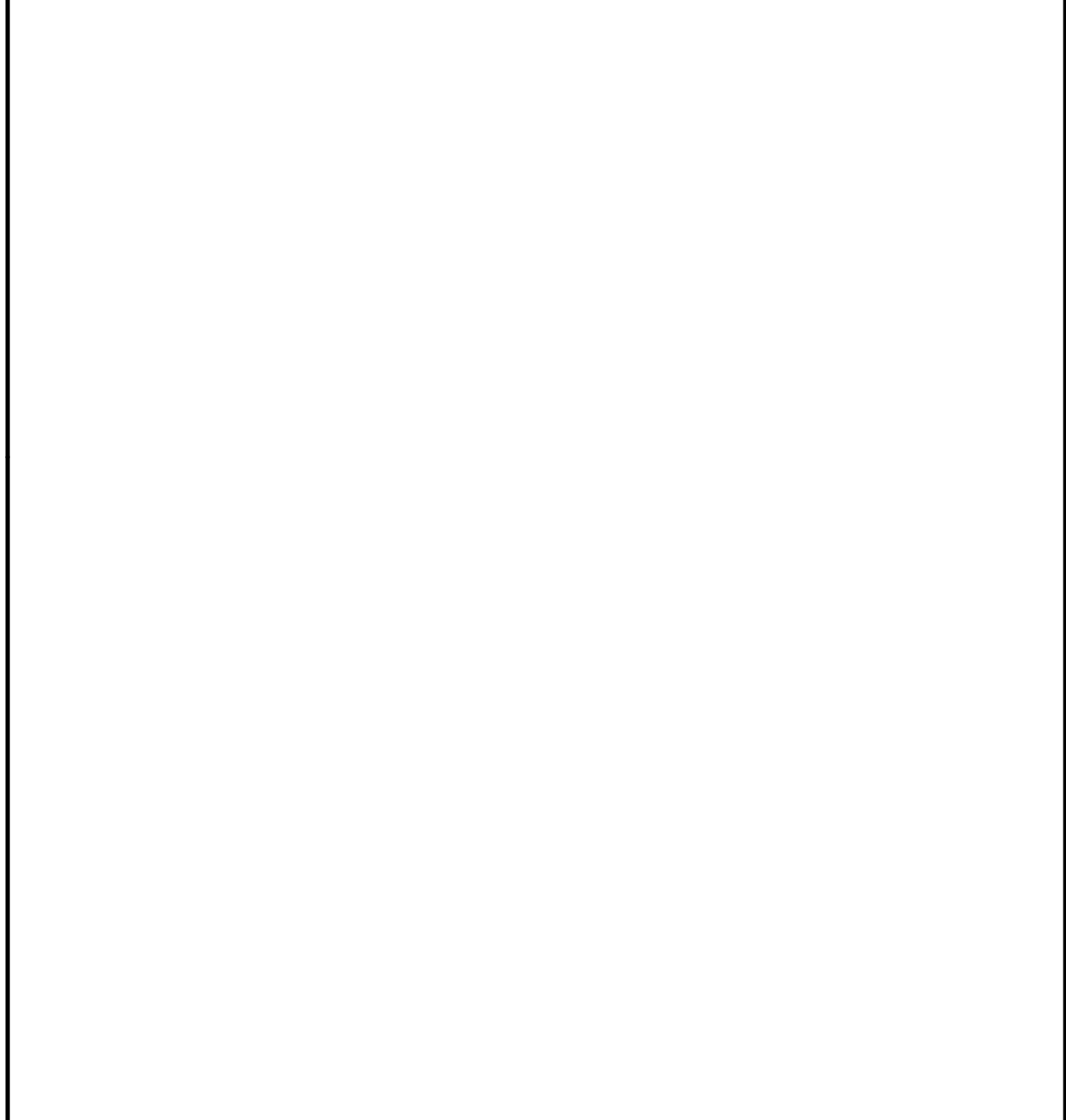
FOR FURTHER RNAV SID (OVERLAY) DESIGNATION REFER TO PAGE 10-3A2

EDDF/FRA  
FRANKFURT/MAIN

 **JEPPESEN** FRANKFURT/MAIN, GERMANY  
29 OCT 21 (10-3A2) .Eff.4.Nov.

.RNAV.SID.(OVERLAY).

RNAV SID DESIGNATION	REFER TO CHART
SULUS 1D	10-3V1
SULUS 2F	10-3V2
SULUS 1L, 3S	10-3V3
TOBAK 9D	10-3W
TOBAK 7F, 1G	10-3X
TOBAK 5H	10-3X1
TOBAK 7M	10-3X2
TOBAK 2N	10-3X3
TOBAK 3R	10-3X4
TOBAK 9S	10-3X5
TOBAK 7T	10-3X6
ULKIG 1L, 2S	10-3X7



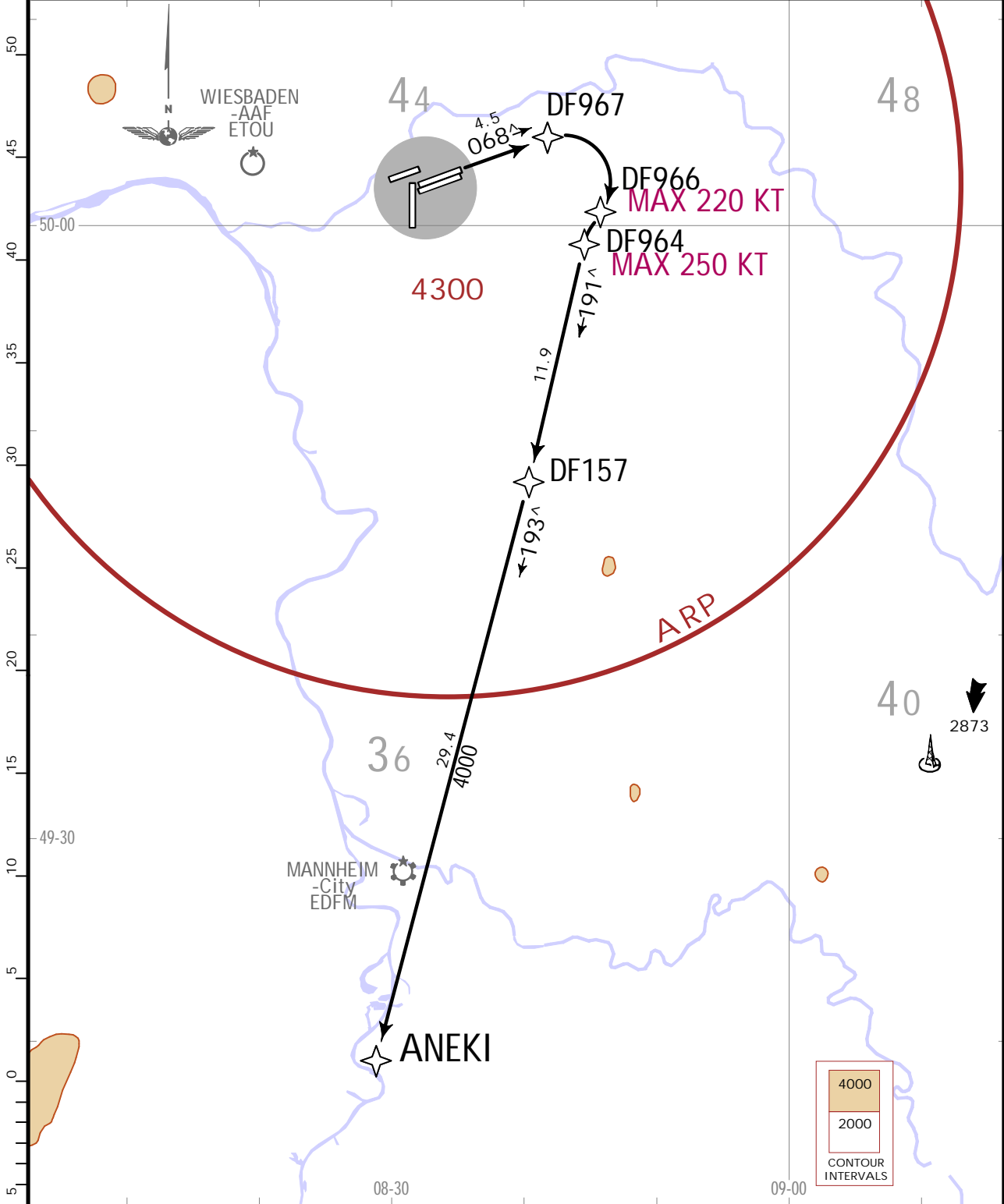
EDDF/FRA  
FRANKFURT/MAIN

JEPPESEN FRANKFURT/MAIN, GERMANY  
17 MAY 19 (10-3A3) .Eff.23.May.

.RNAV.SID.

<p>*LANGEN Radar 136.130</p>	<p>Apt Elev 364</p>	<p>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.</p>
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**ANEKI 1X [ANEK1X]**  
**RWY 07C RNP DEPARTURE**  
**.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.



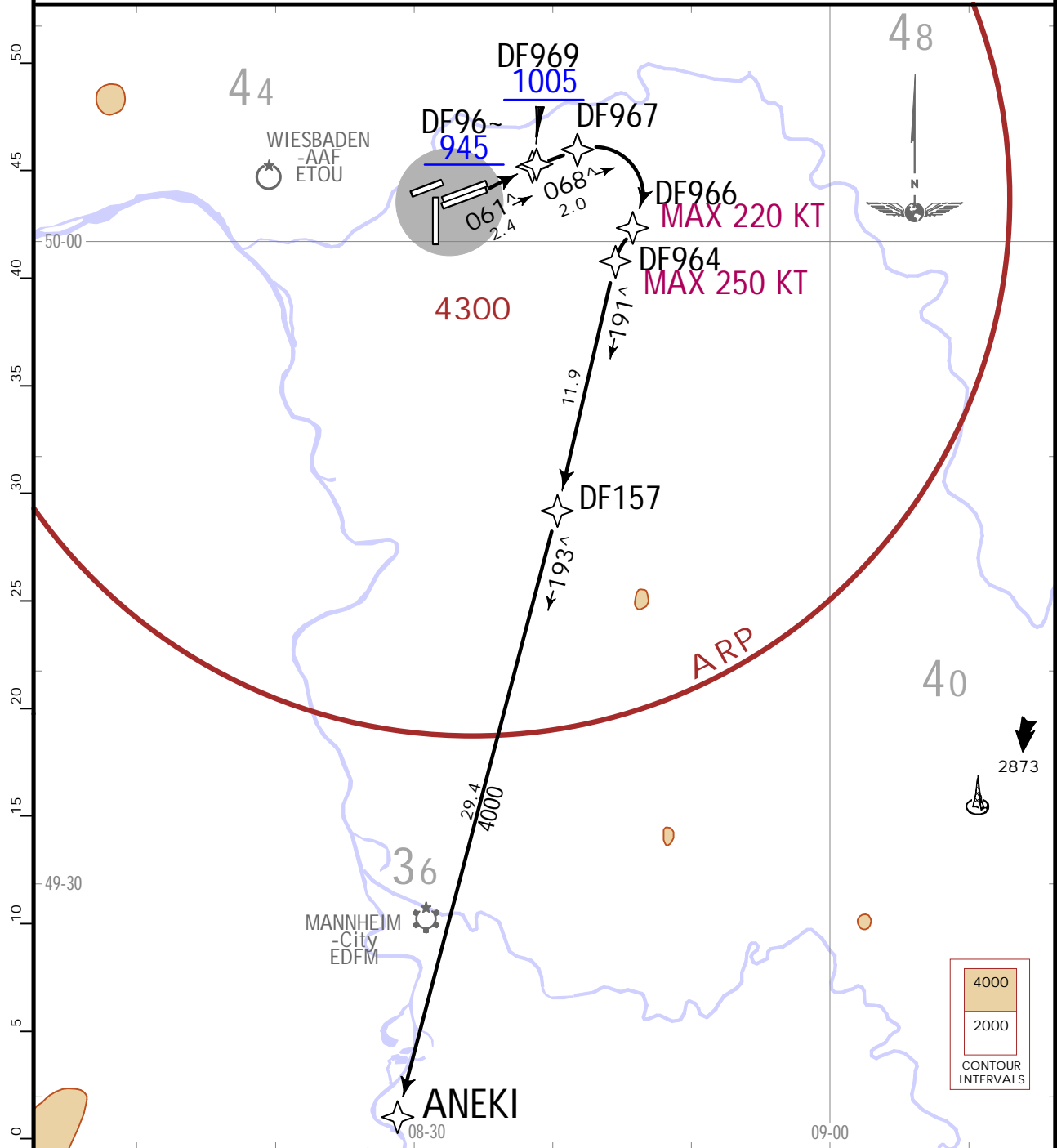
**EDDF/FRA**  
FRANKFURT/MAIN

**JEPPESEN** FRANKFURT/MAIN, GERMANY  
17 MAY 19 (10-3A4) .Eff.23.May.

**.RNAV.SID.**

<p>*LANGEN Radar 136.130</p>	<p>Apt Elev 364</p>	<p>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.</p>
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**ANEKI 1Y [ANEK1Y]**  
**RWY 07R RNP DEPARTURE**  
**.SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC**  
**NOT APPLICABLE WITHIN AIRSPACE C**



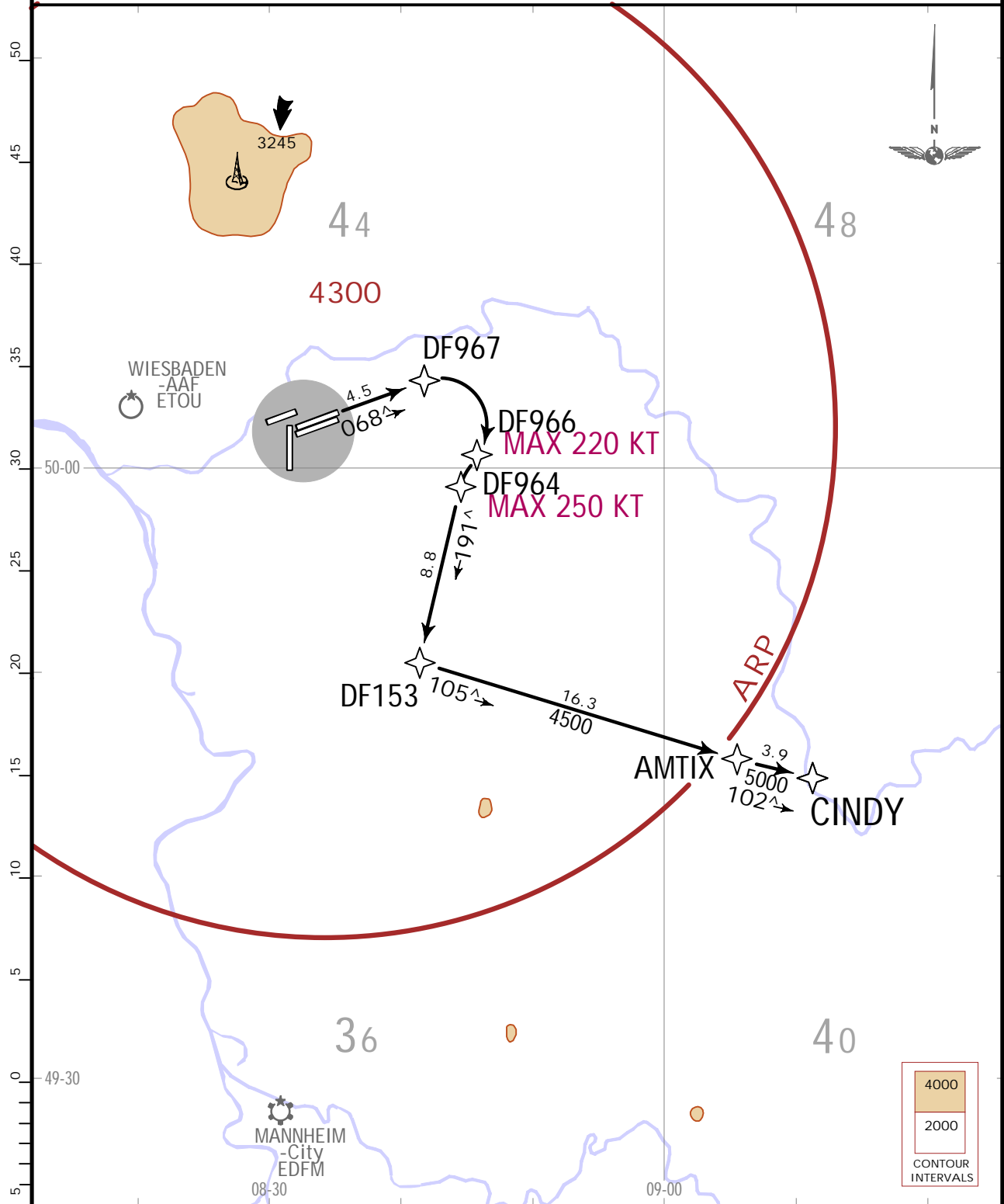
<p>This SID requires a minimum climb gradient of 240 per NM (3.9%) until passing 1005 due to operational reasons.</p>	<table border="1"> <tr> <th>Gnd speed-KT</th> <td>75</td> <td>100</td> <td>150</td> <td>200</td> <td>250</td> <td>300</td> </tr> <tr> <th>240 per NM</th> <td>300</td> <td>400</td> <td>600</td> <td>800</td> <td>1000</td> <td>1200</td> </tr> </table>	Gnd speed-KT	75	100	150	200	250	300	240 per NM	300	400	600	800	1000	1200
Gnd speed-KT	75	100	150	200	250	300									
240 per NM	300	400	600	800	1000	1200									
<p>Initial climb clearance <b>4000</b></p>															
<p><b>ROUTING</b></p>															
<p>On 061^ track to DF960, turn RIGHT to DF969, to DF967, turn RIGHT to DF966, turn LEFT to DF964, to DF157, to ANEKI.</p>															

EDDF/FRA  
FRANKFURT/MAIN

JEPPESSEN FRANKFURT/MAIN, GERMANY  
17 MAY 19 (10-3A5) .Eff.23.May. .RNAV.SID.

<p>*LANGEN Radar 136.130</p>	<p>Apt Elev 364</p>	<p>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.</p>
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**CINDY 1X [CIND1X]**  
**RWY 07C RNP DEPARTURE**  
**.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.

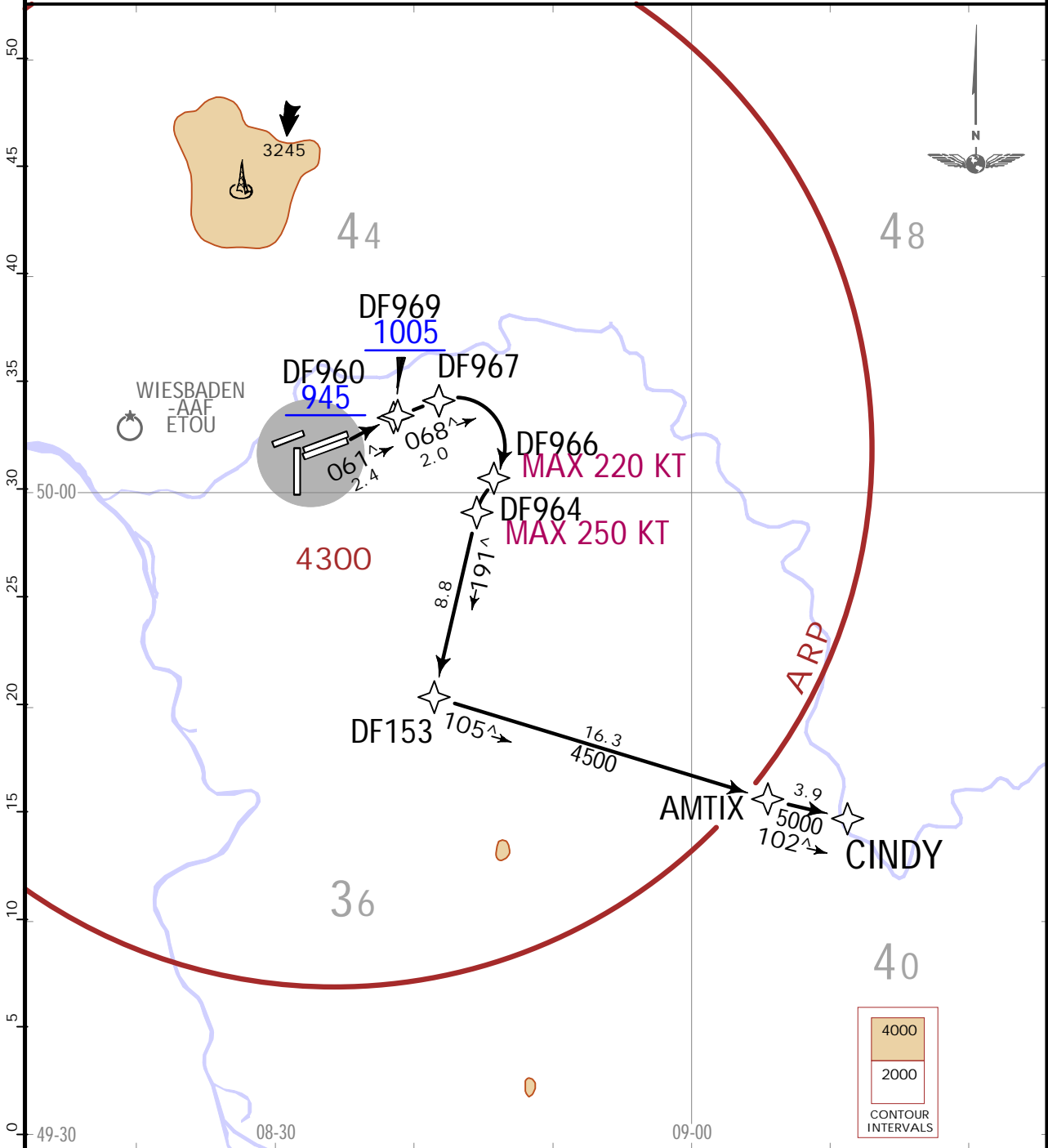
**EDDF/FRA**  
FRANKFURT/MAIN

**JEPPESEN** 17 MAY 19 **10-3A6** .Eff.23.May.

**FRANKFURT/MAIN, GERMANY**  
.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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**CINDY 1Y [CIND1Y]**  
**RWY 07R RNP DEPARTURE**  
**.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 1005 due to operational reasons.

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

Initial climb clearance **4000**

**ROUTING**

On 061<sup>^</sup> track to DF960, turn RIGHT to DF969, to DF967, turn RIGHT to DF966, turn LEFT to DF964, to DF153, to AMTIX, to CINDY.

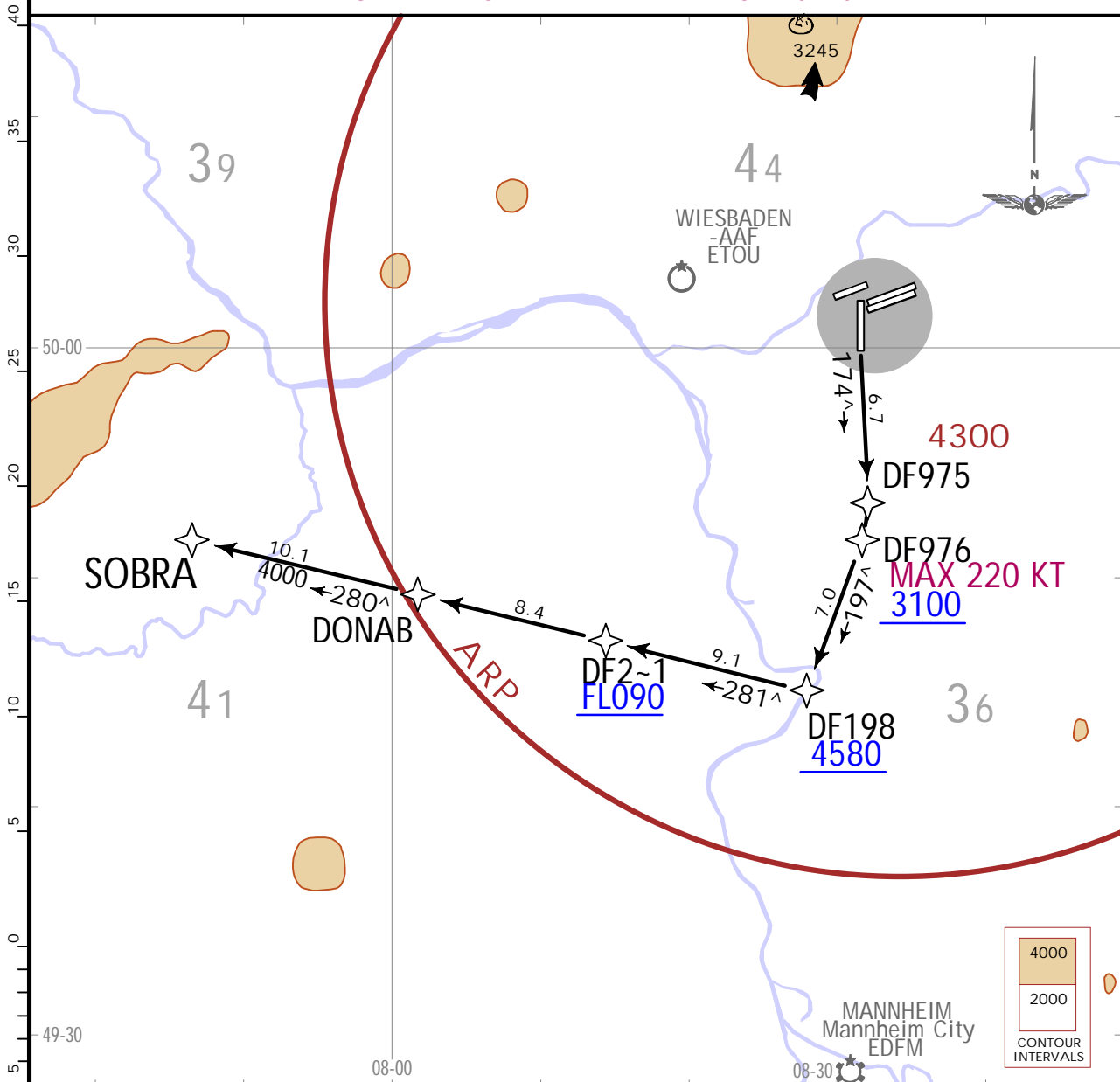
EDDF/FRA  
FRANKFURT/MAIN

JEPPESEN  
28 OCT 22 (10-3A7) .Eff.3.Nov.

FRANKFURT/MAIN, GERMANY  
.RNAV.SID.

*LANGEN Radar 136.130	Apt Elev 364	Trans alt: 5000
		RNP-1, RF required. GPS.
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. 7. If unable to cross DF2-1 at or above FL090 advise EDDF DELIVERY prior to start-up and EXPECT routing via SID ULKIG 1L.		

**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 DF2-1, to DONAB, to SOBRA.



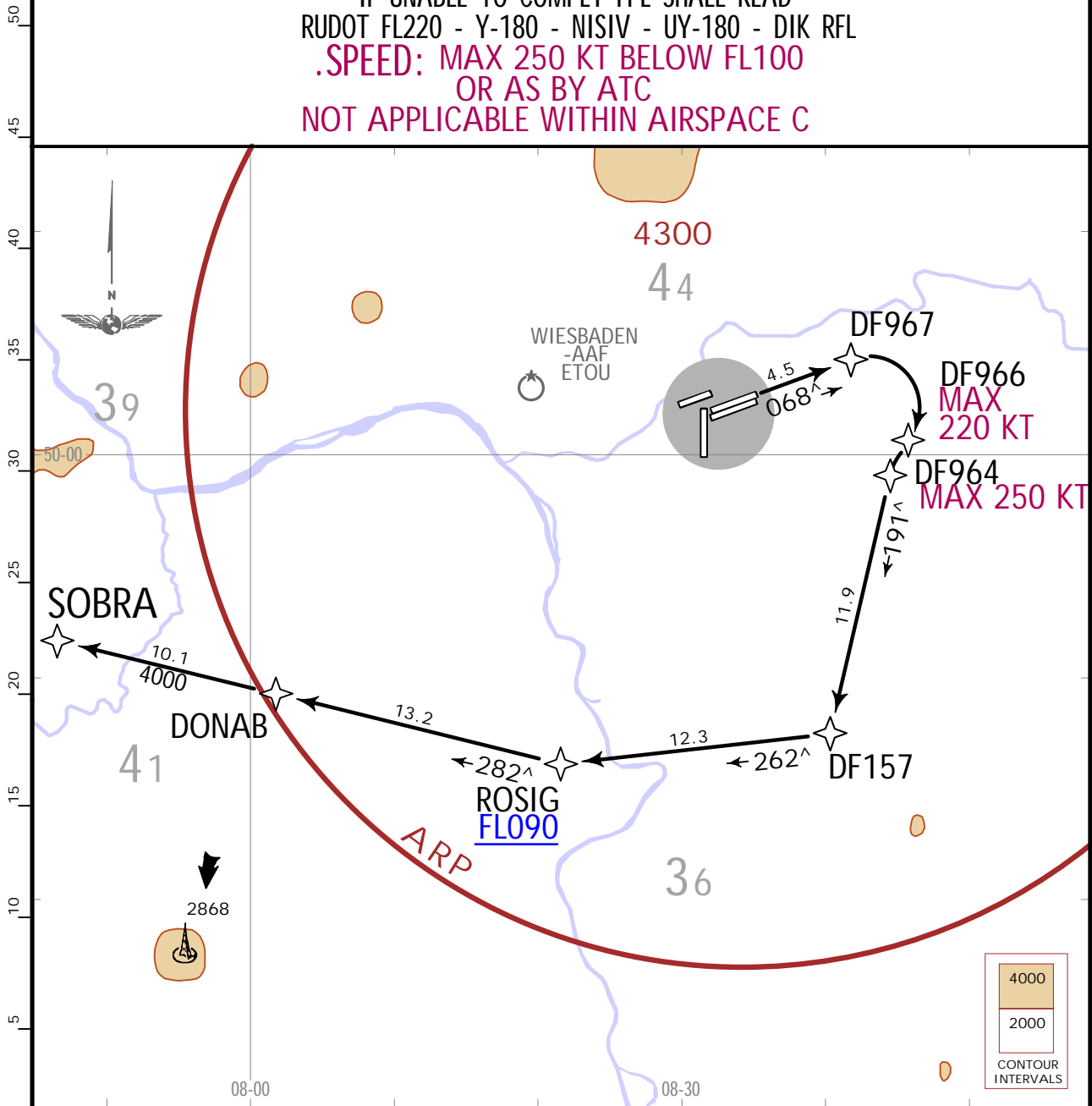
**EDDF/FRA**  
FRANKFURT/MAIN

**JEPPESEN** FRANKFURT/MAIN, GERMANY  
28 OCT 22 (10-3A8) .Eff.3.Nov.

**.RNAV.SID.**

*LANGEN Radar 136.130	Apt Elev 364	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.

**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 FLO90, 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**

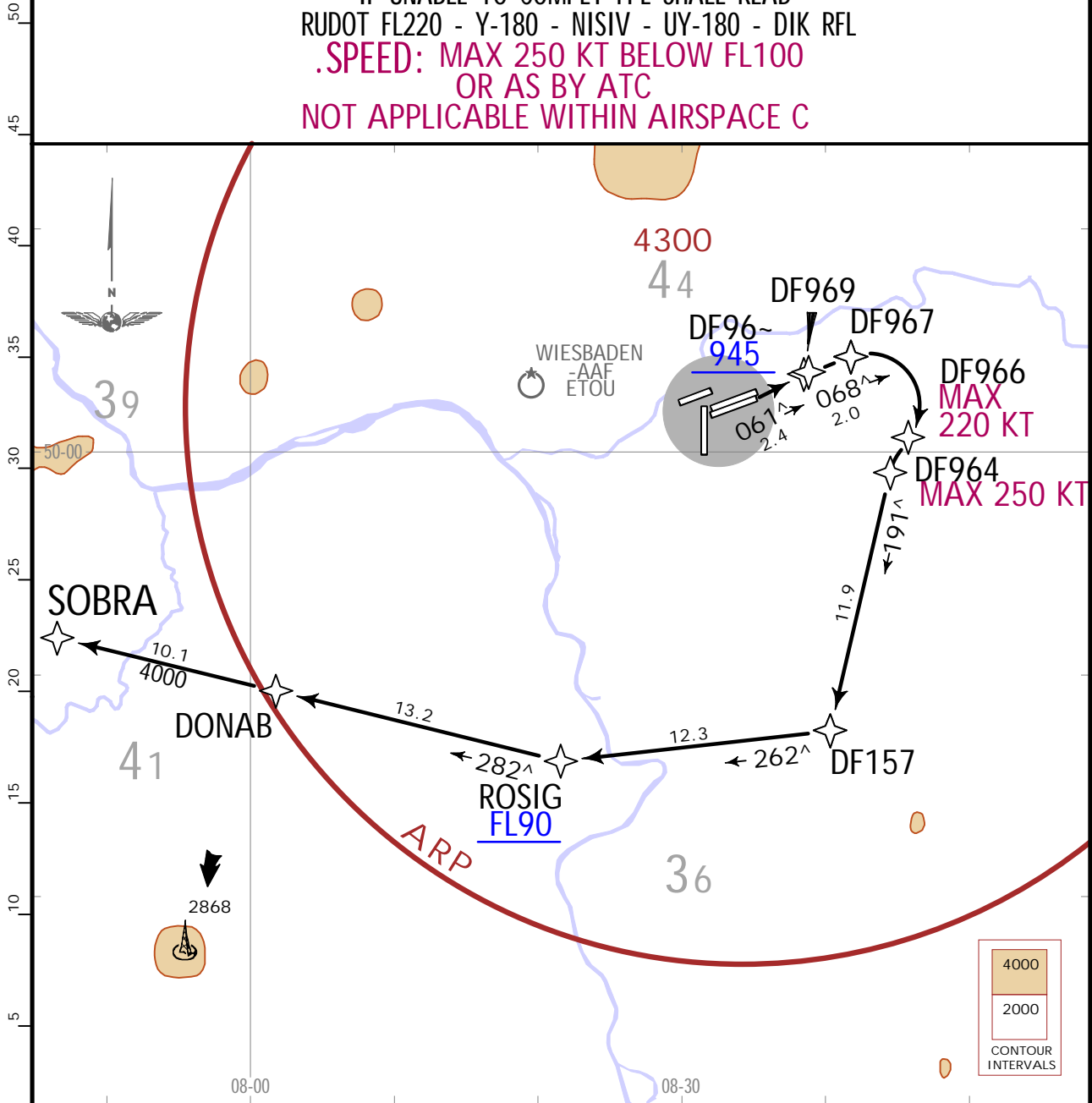
On 068° track to DF967, turn RIGHT to DF966, turn LEFT to DF964, to DF157, to ROSIG, to DONAB, to SOBRA.

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

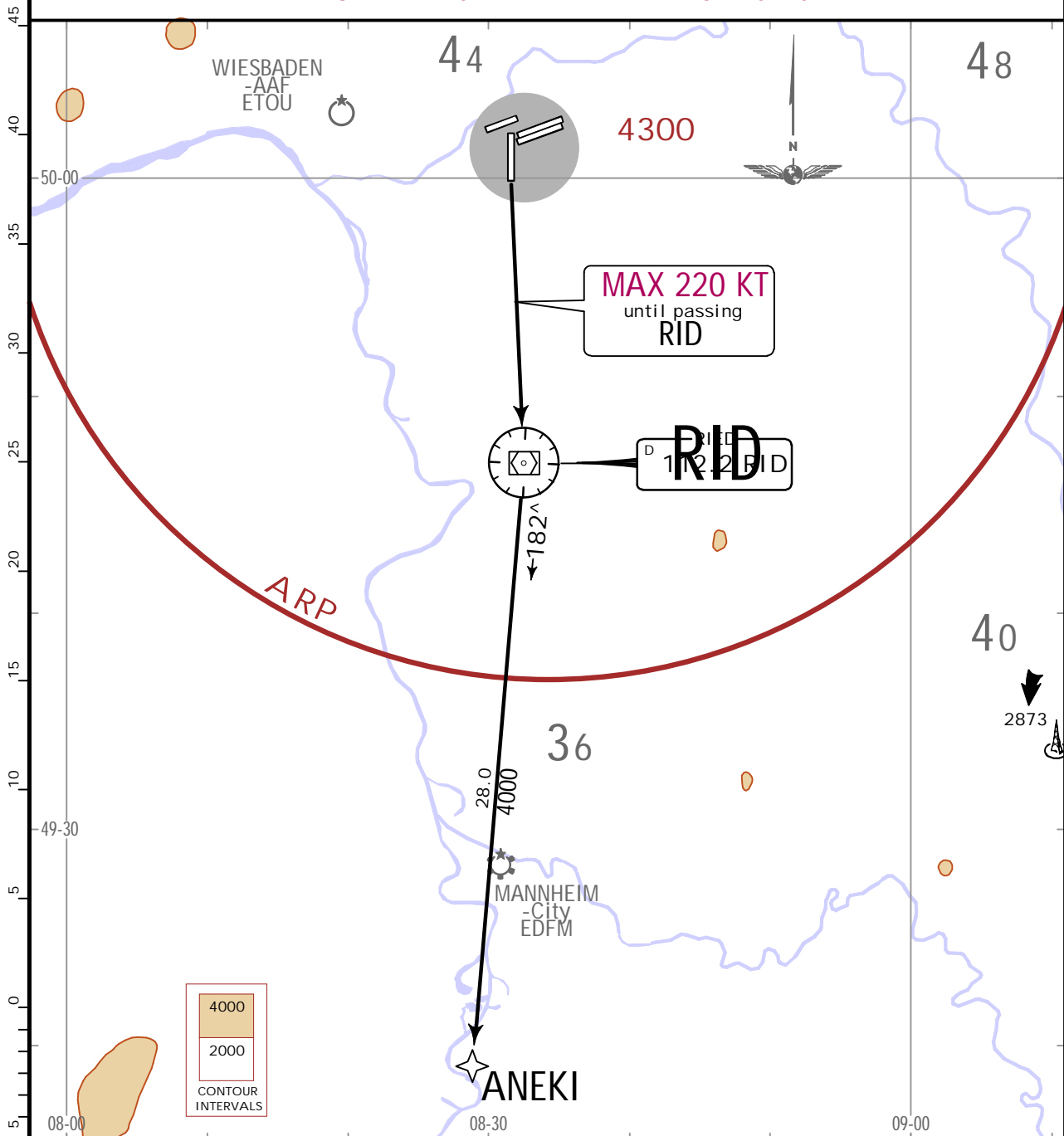
JEPPESSEN 29 OCT 21 10-3B .Eff.4.Nov.

FRANKFURT/MAIN, GERMANY  
.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"> <li>Contact LANGEN Radar when advised by Tower.</li> <li>WARNING: Close-in obstacles.</li> <li>Wind shears and increased turbulences must be EXPECTED when winds strong.</li> <li>SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY.</li> <li>For operational RWY use concept refer to 10-1P pages.</li> <li>Do not turn before DER.</li> </ol>		

### 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.

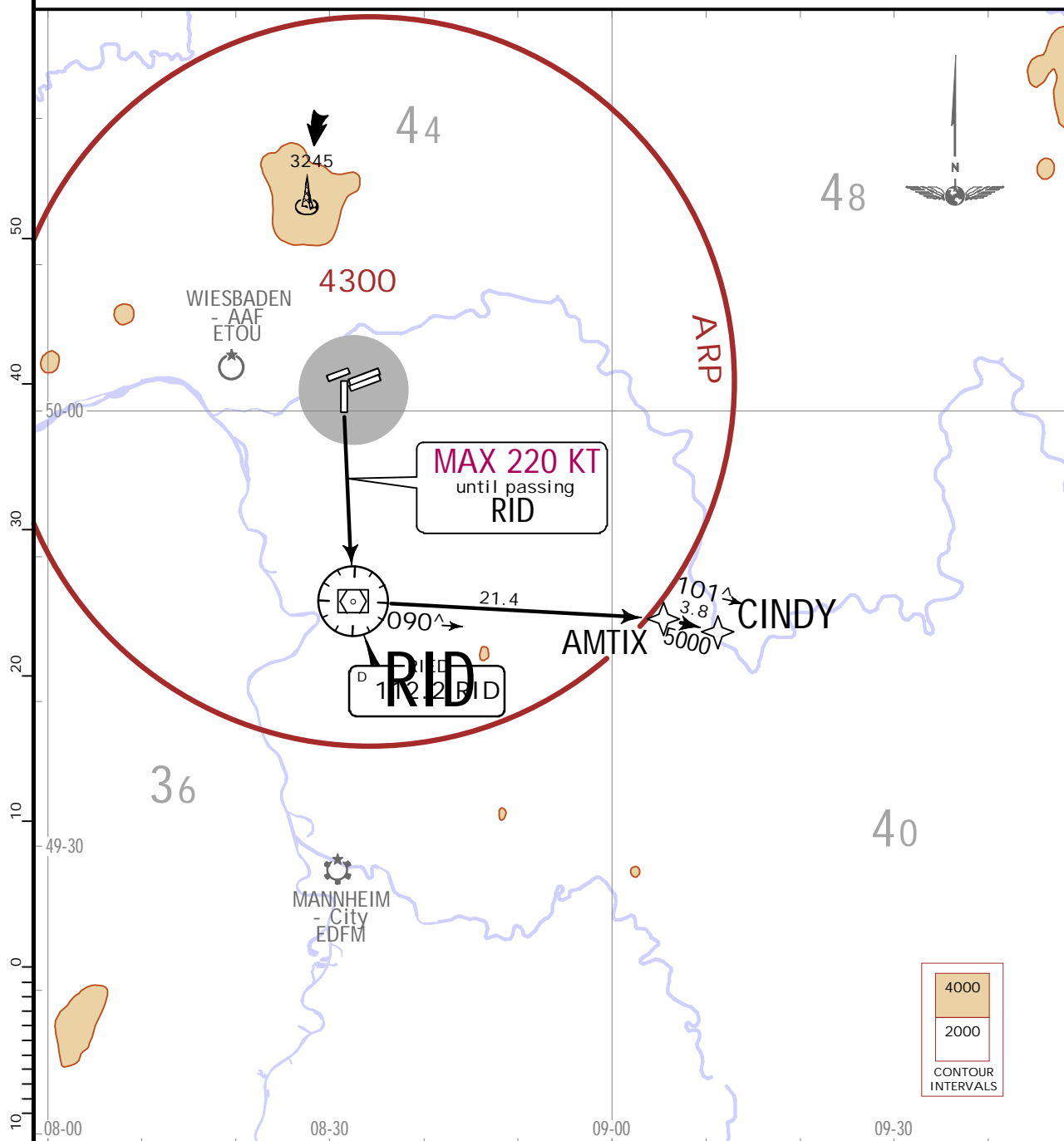
EDDF/FRA  
FRANKFURT/MAIN

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

### 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.

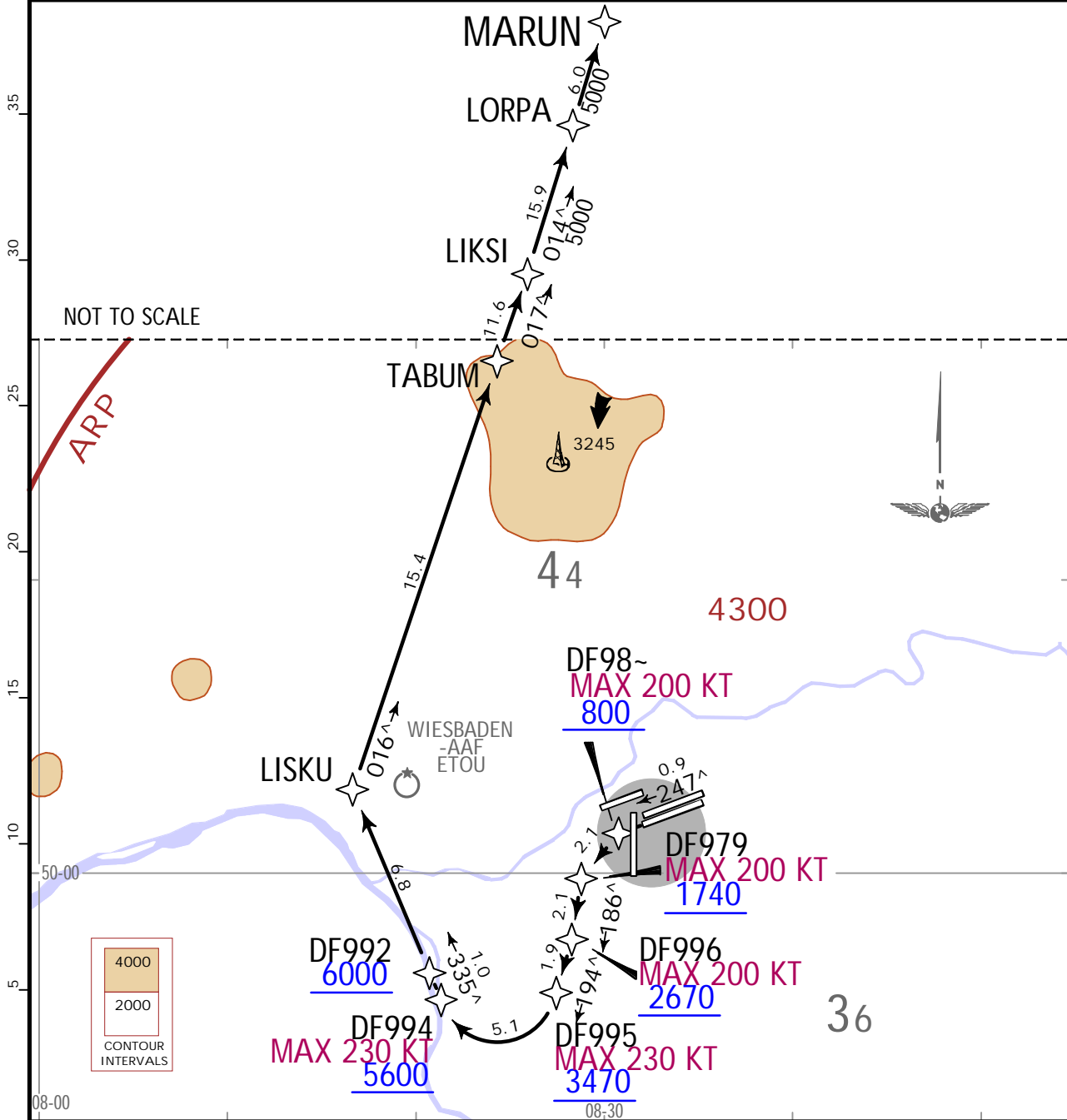
**EDDF/FRA**  
FRANKFURT/MAIN

**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.



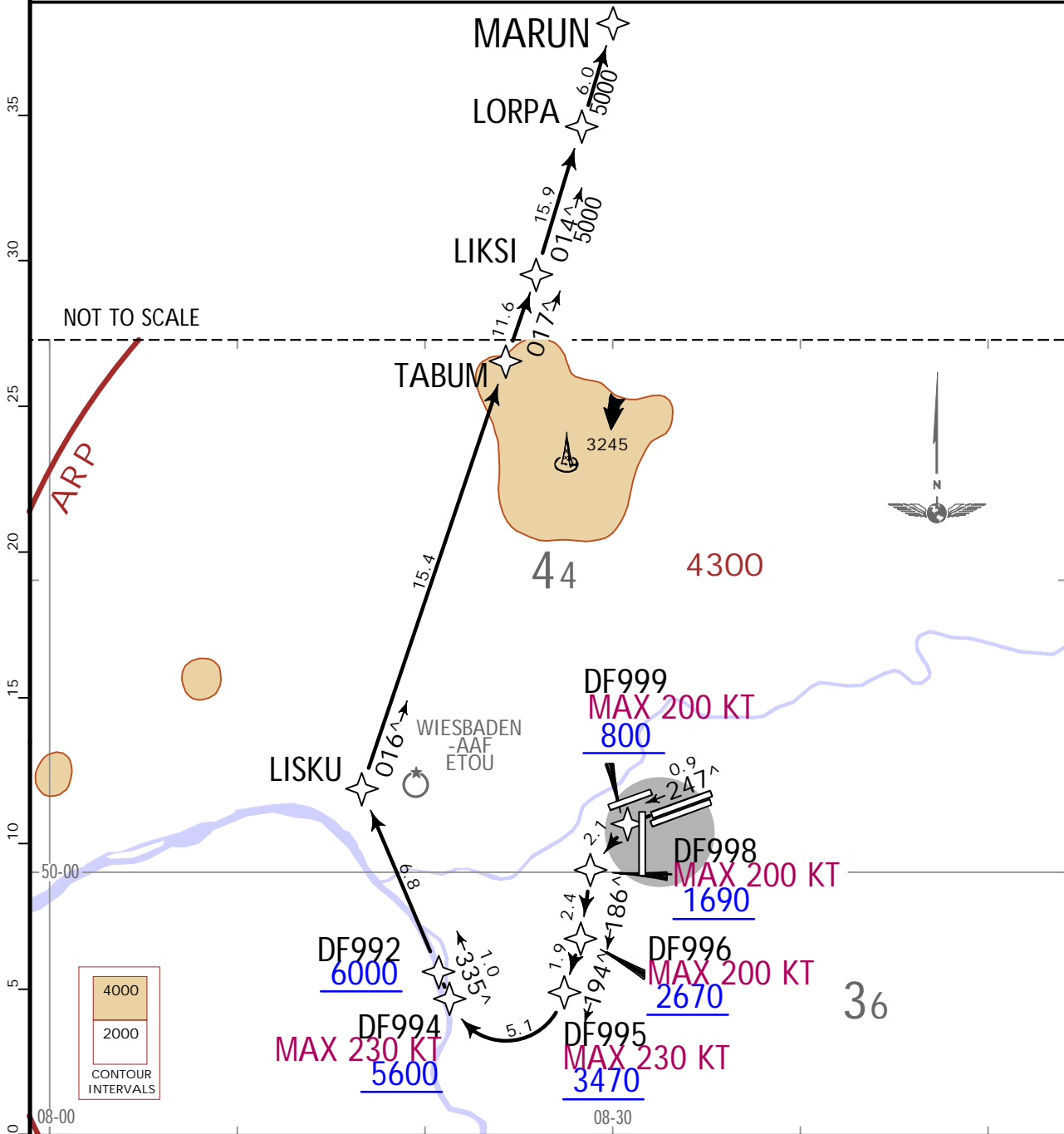
**EDDF/FRA**  
FRANKFURT/MAIN

**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.
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**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.**

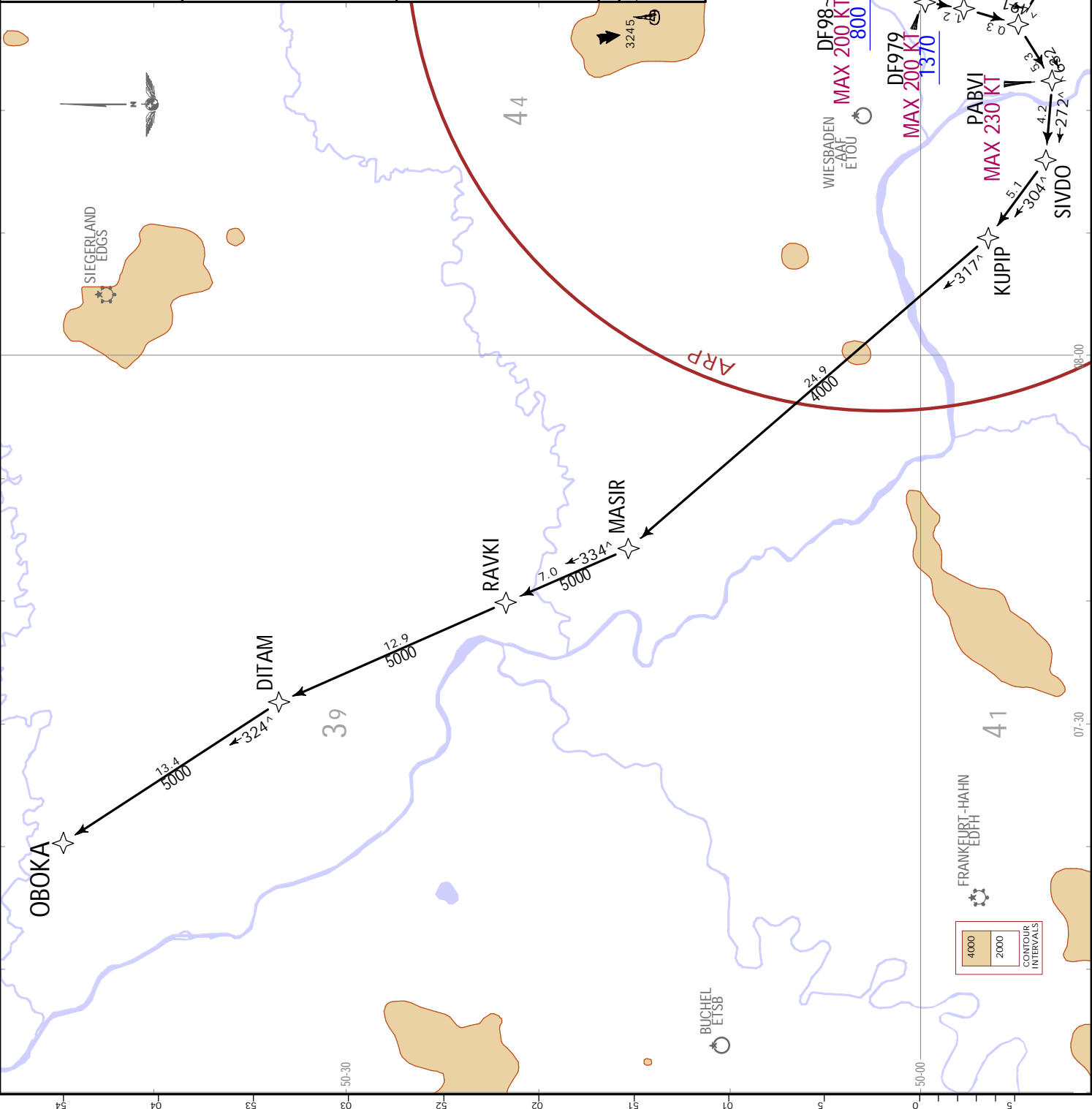
Trans alt: 5000  
 1. RNP 1/A-RNP required.  
 2. RF required  
 3. GPS required  
 4. Contact LANGEN Radar when advised by Tower.  
 5. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY.  
 6. For operational RWY use concept refer to 10-1P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

**OBOKA 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.

Grnd 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.



**EDDF/FRA**  
**FRANKFURT/MAIN**  
 9 JUL 21  
**(10-3C3)**  
 Eff. 15 Jul.



EDDF/FRA  
FRANKFURT/MAIN

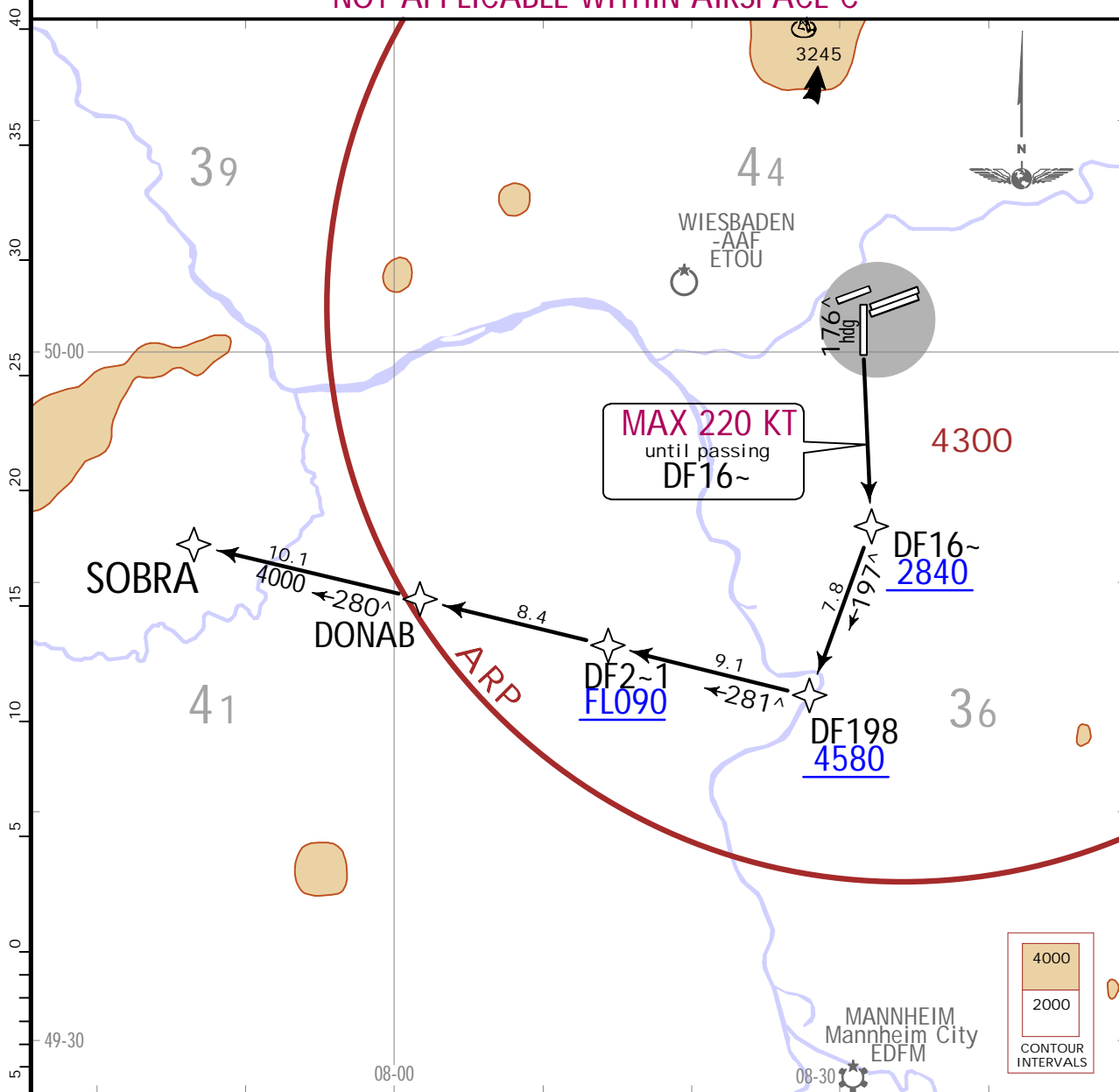
JEPPESEN  
28 OCT 22 (10-3C5) .Eff.3.Nov.

FRANKFURT/MAIN, GERMANY  
.RNAV.SID.

*LANGEN Radar 136.130	Apt Elev 364	Trans alt: 5000
		RNAV 1 required. GPS. DME/DME not authorized.
		<ol style="list-style-type: none"> <li>Contact LANGEN Radar when advised by Tower.</li> <li>RADAR required.</li> <li>WARNING: Close-in obstacles.</li> <li>Wind shears and increased turbulences must be EXPECTED when winds strong.</li> <li>SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY.</li> <li>For operational RWY use concept refer to 10-1P pages.</li> <li>Do not turn before DER.</li> <li>If unable to cross DF2-1 at or above FL090 advise EDDF DELIVERY prior to start-up and EXPECT routing via SID ULKIG 1L.</li> </ol>

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

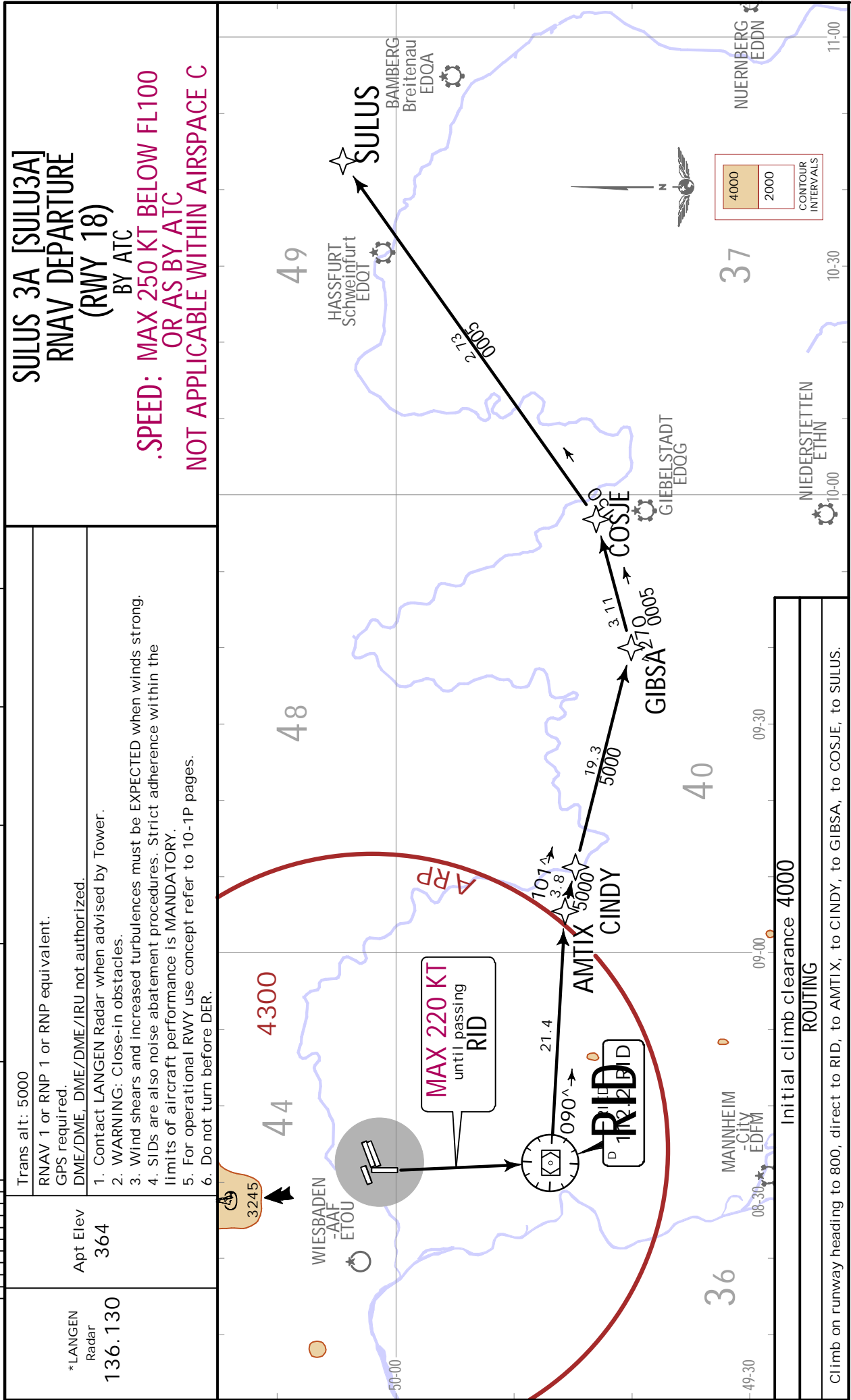


Initial climb clearance 4000  
ROUTING

Climb on 176° heading to at or above 800, direct to DF16-, to DF198, to DF2-1, to DONAB, to SOBRA.

EDDF/FRA  
FRANKFURT/MAIN

JEPPESSEN FRANKFURT/MAIN, GERMANY  
28 OCT 22 (10-3C6) .Eff.3.Nov. .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.

- 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.

\*LANGEN Radar  
136.130

Apt Elev  
364

Initial climb clearance 4000  
ROUTING  
Climb on runway heading to 800, direct to RID, to AMTIX, to CINDY, to GIBSA, to COSJE, to SULUS.

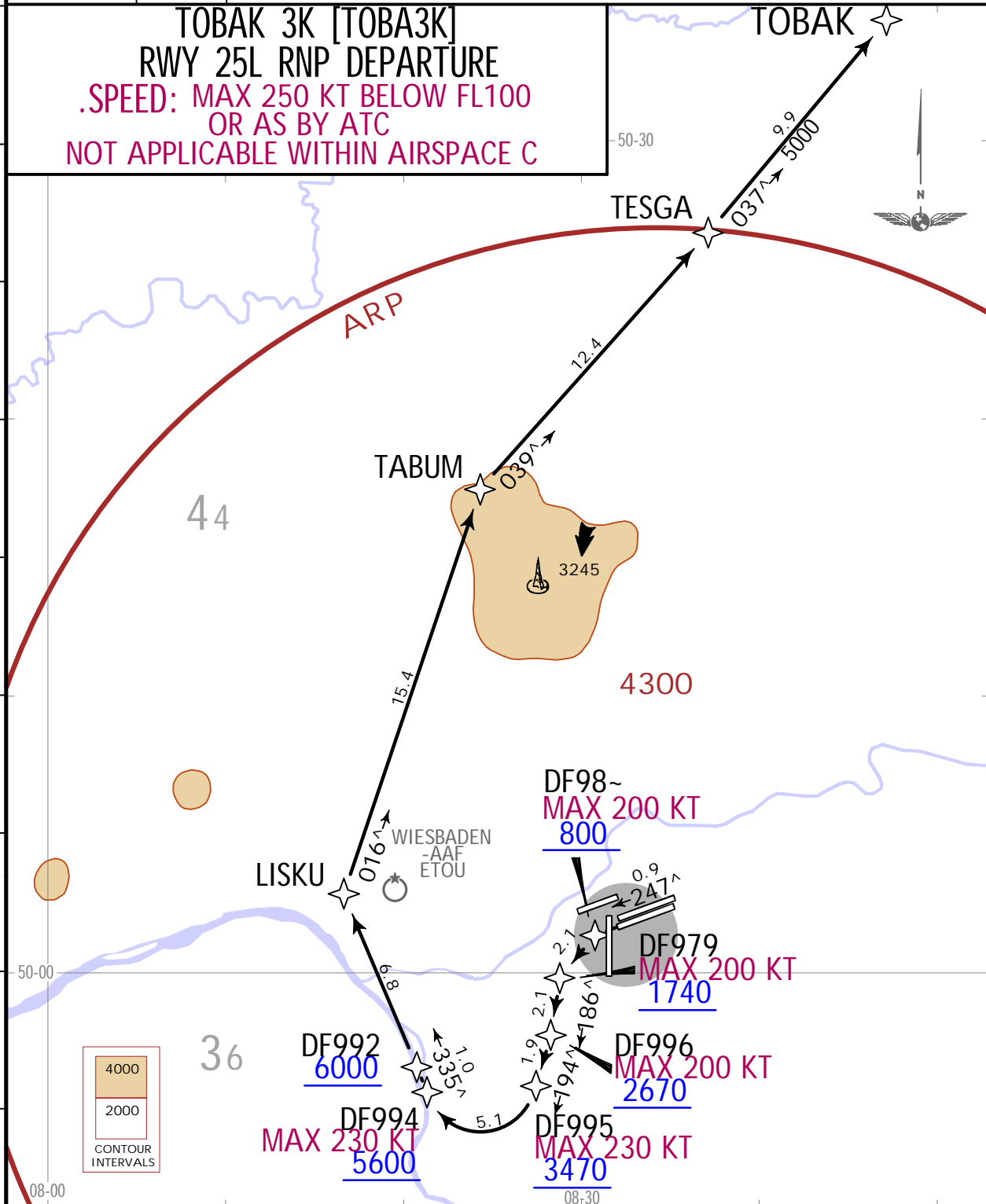


**EDDF/FRA**  
FRANKFURT/MAIN

**JEPPESSEN** FRANKFURT/MAIN, GERMANY  
9 JUL 21 (10-3C7) .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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This SID requires minimum climb gradients of  
 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 - TESGA - TOBAK.

**EDDF/FRA**  
FRANKFURT/MAIN

9 JUL 21

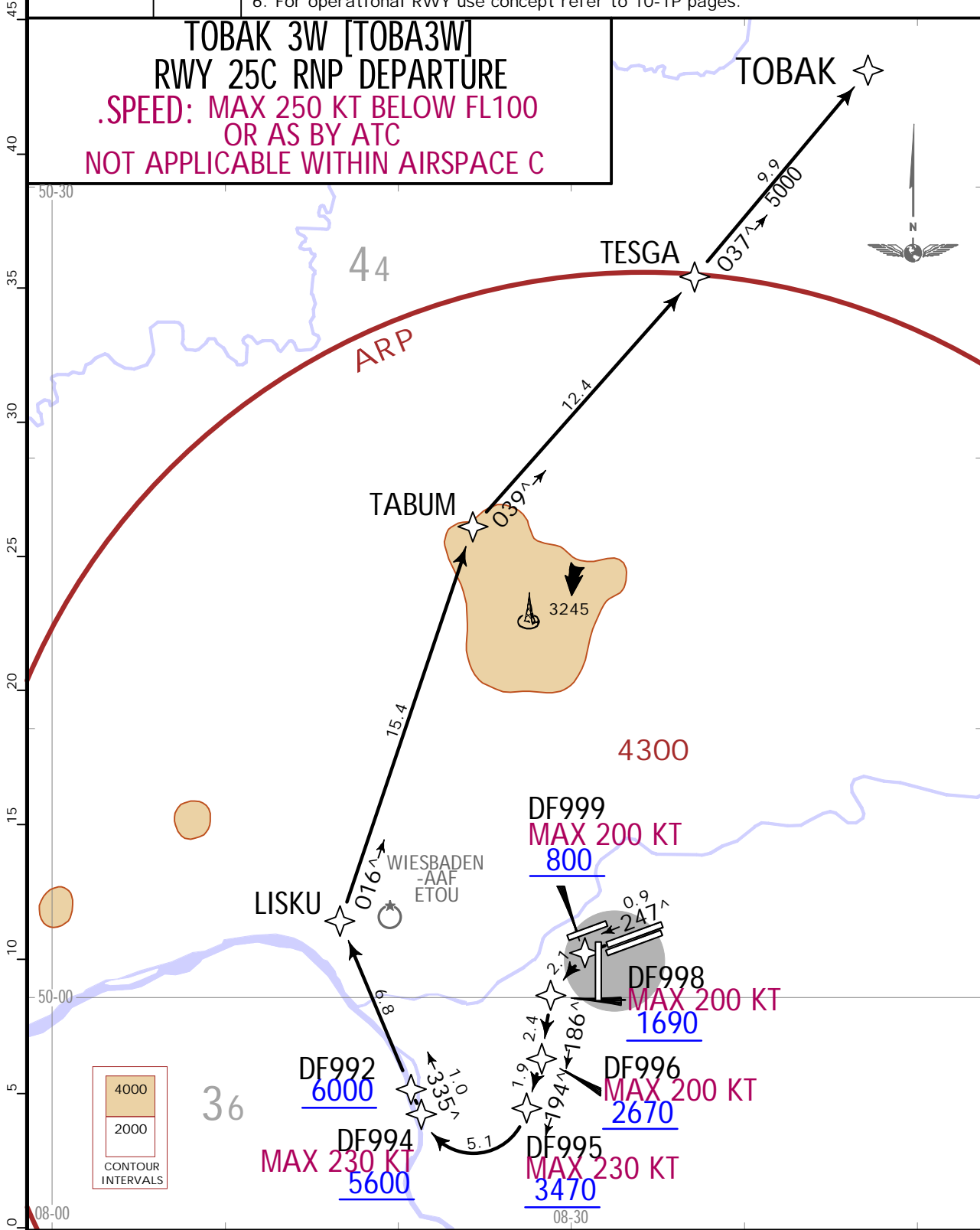
**JEPPESEN** **FRANKFURT/MAIN, GERMANY**  
10-3C8 .Eff.15.Jul. .RNAV.SID.

\*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.

**TOBAK 3W [TOBA3W]**  
**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  
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 - TESGA - TOBAK.

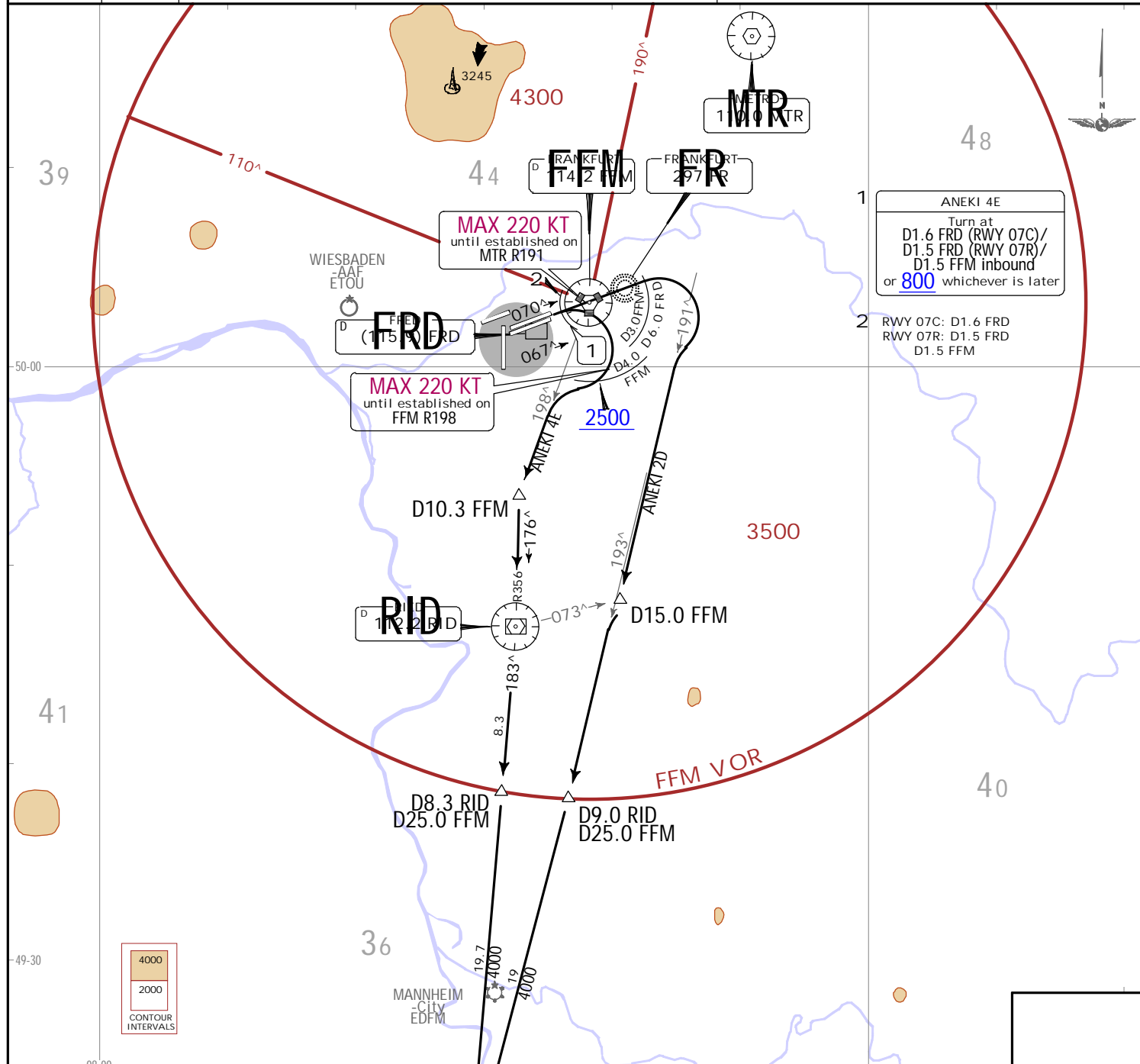
CHANGES: None

\*LANGEN Radar 136.130 Apt Elev 364

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.

ANEKI 2D, ANEKI 4E DEPARTURES (RWYS 07C/R)  
 .SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC  
 NOT APPLICABLE WITHIN AIRSPACE C

EDDF/FRA  
 FRANKFURT/MAIN  
 29 OCT 21(10-309)  
 JEPPesen  
 EFF 4.Nov.



ANEKI 4E  
 Turn at  
 D1.6 FRD (RWY 07C)/  
 D1.5 FRD (RWY 07R)/  
 D1.5 FFM inbound  
 or 800 whichever is later

RWY 07C: D1.6 FRD  
 RWY 07R: D1.5 FRD  
 D1.5 FFM

ANEKI 4E  
 This SID requires a minimum climb gradient of 330 per NM (5.4%) until passing 2500 due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
330 per NM	413	550	825	1100	1375	1650

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

Initial climb clearance 4000	
SID	ROUTING
ANEKI 2D	Climb on runway track to 800, via FR to D6.0 FRD (D3.0 FFM outbound), turn RIGHT, intercept MTR R191 to D15.0 FFM/RID R073, turn RIGHT, intercept MTR R193 to ANEKI.
ANEKI 4E	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 RIGHT, intercept FFM R198, at D10.3 FFM turn LEFT, intercept RID R356 inbound to RID, turn RIGHT, RID R183 to ANEKI.

ANEKI 2D  
 ANEKI 4E  
 DEPARTURES  
 (RWYS 07C/R)

FRANKFURT/MAIN, GERMANY  
 .SID.

CHANGES: SIDs renumbered

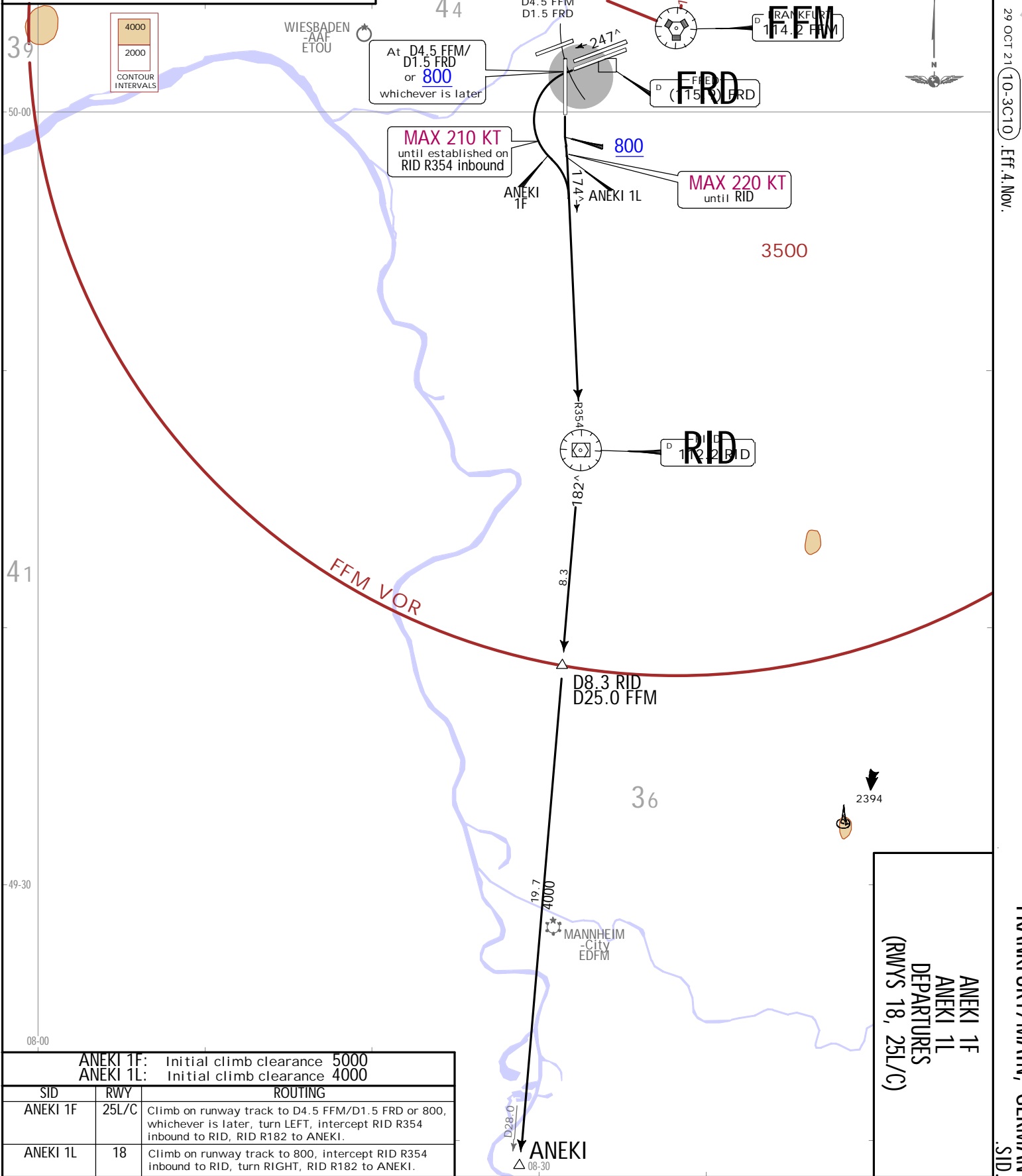
EDDF/FRA  
FRANKFURT/MAIN  
29 OCT 21 10:30C10  
JEPPESSEN  
Eff. 4. Nov.

# ANEKI 1F, ANEKI 1L DEPARTURES (RWYS 18, 25L/C)

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

\*LANGEN Radar  
136.130  
Apt Elev  
364

- 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.
  - RWY 18: WARNING: Close-in obstacles.
  - RWY 18: Wind shears and increased turbulences must be expected when winds strong.
  - RWY 18: Do not turn before DER.
  - For operational RWY use concept refer to 10-1P pages.



ANEKI 1F: Initial climb clearance 5000		ANEKI 1L: Initial climb clearance 4000	
SID	RWY	ROUTING	
ANEKI 1F	25L/C	Climb on runway track to D4.5 FFM/D1.5 FRD or 800, whichever is later, turn LEFT, intercept RID R354 inbound to RID, RID R182 to ANEKI.	
ANEKI 1L	18	Climb on runway track to 800, intercept RID R354 inbound to RID, turn RIGHT, RID R182 to ANEKI.	

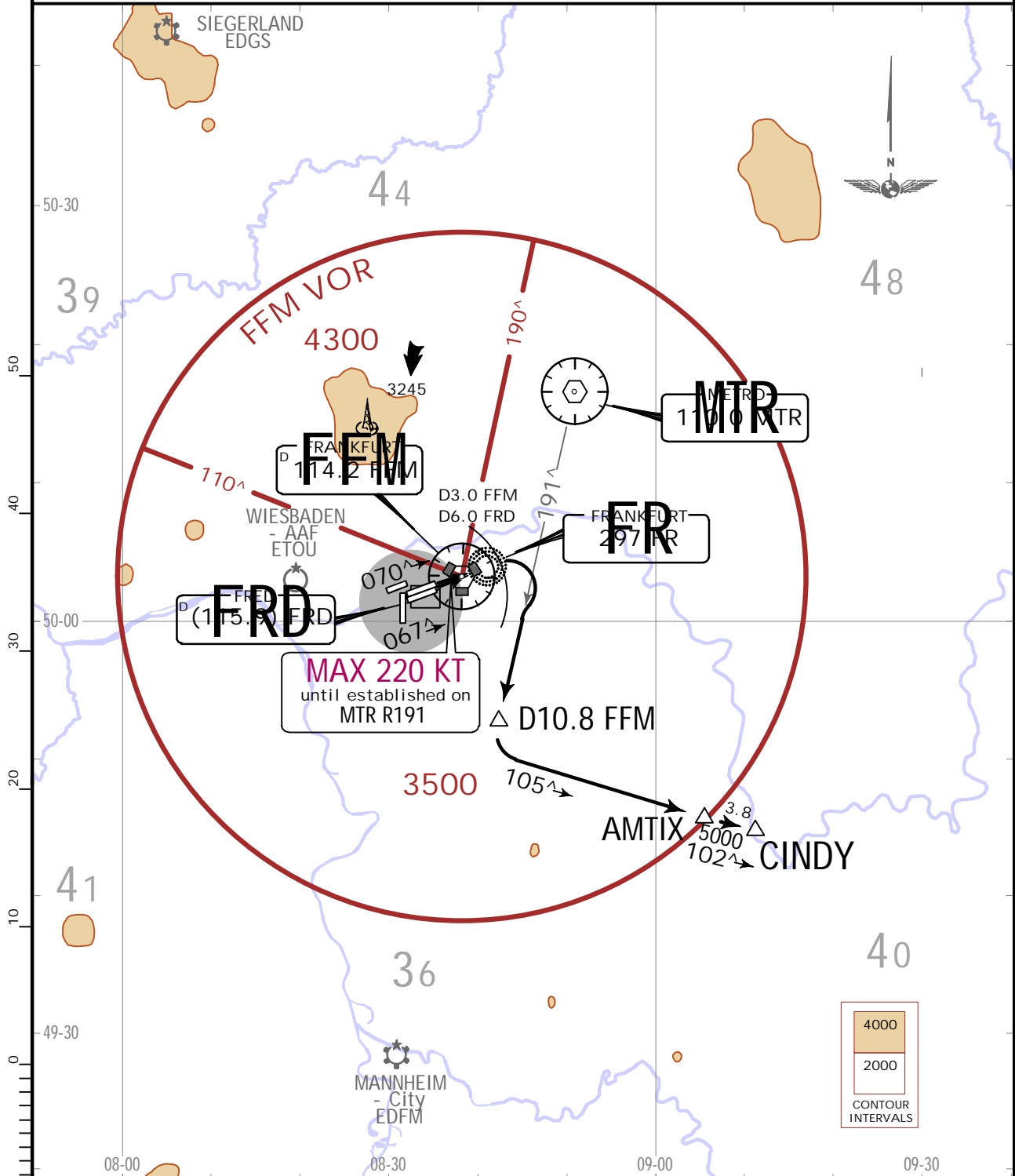
FRANKFURT/MAIN, GERMANY  
SID.

EDDF/FRA  
FRANKFURT/MAIN

**JEPPesen** FRANKFURT/MAIN, GERMANY  
17 MAY 19 (10-3D) .Eff.23.May. .SID.

*LANGEN Radar 136.130	Apt Elev 364	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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**CINDY 1D**  
**RWYS 07C/R DEPARTURE**  
**.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, intercept MTR R191, at D10.8 FFM **1** turn LEFT, 105° track to AMTIX, turn LEFT, 102° track to CINDY.

**1** After D10.8 FFM BRNAV equipment necessary.

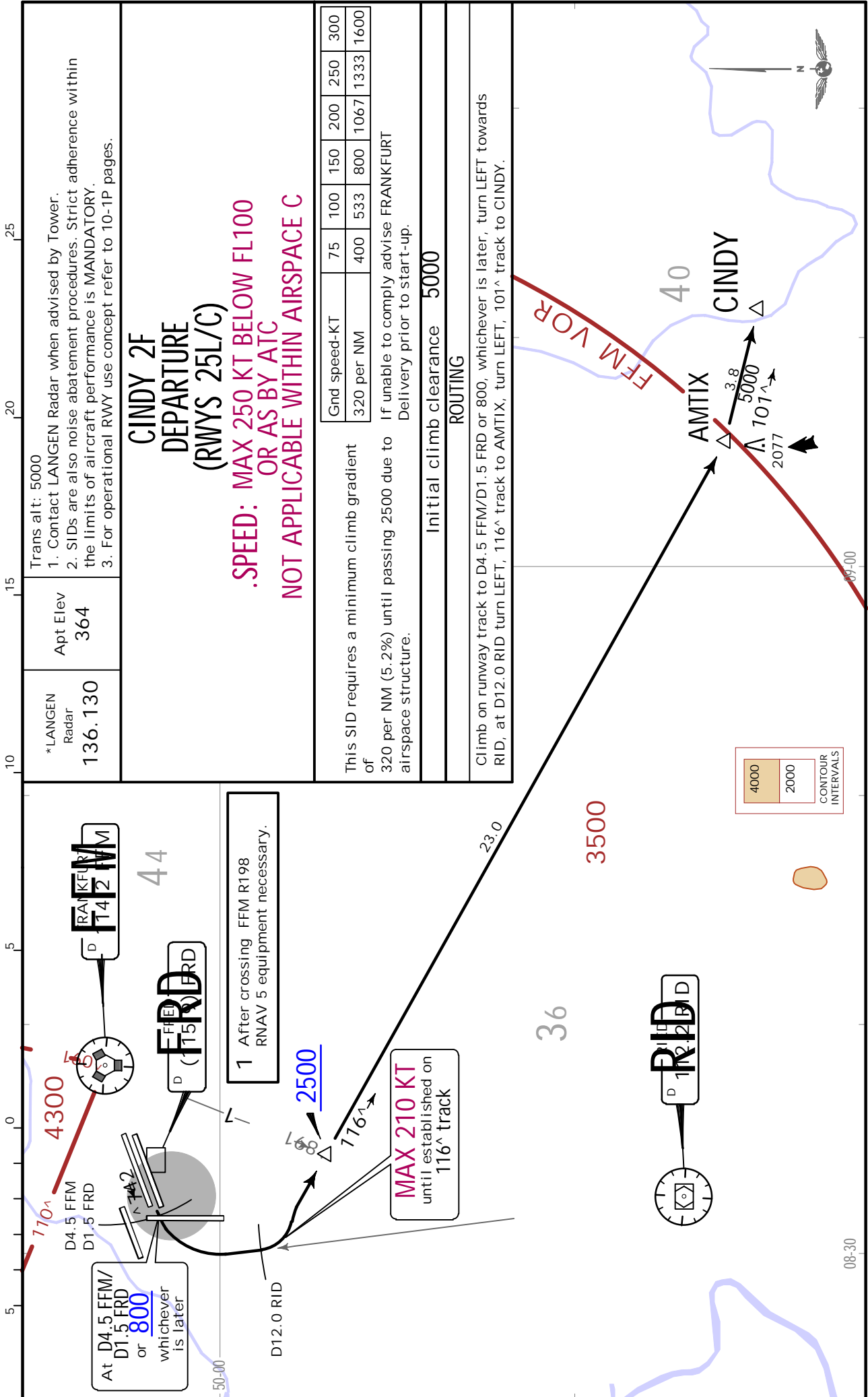


# EDDF/FRA

FRANKFURT/MAIN

# JEPPesen FRANKFURT/MAIN, GERMANY

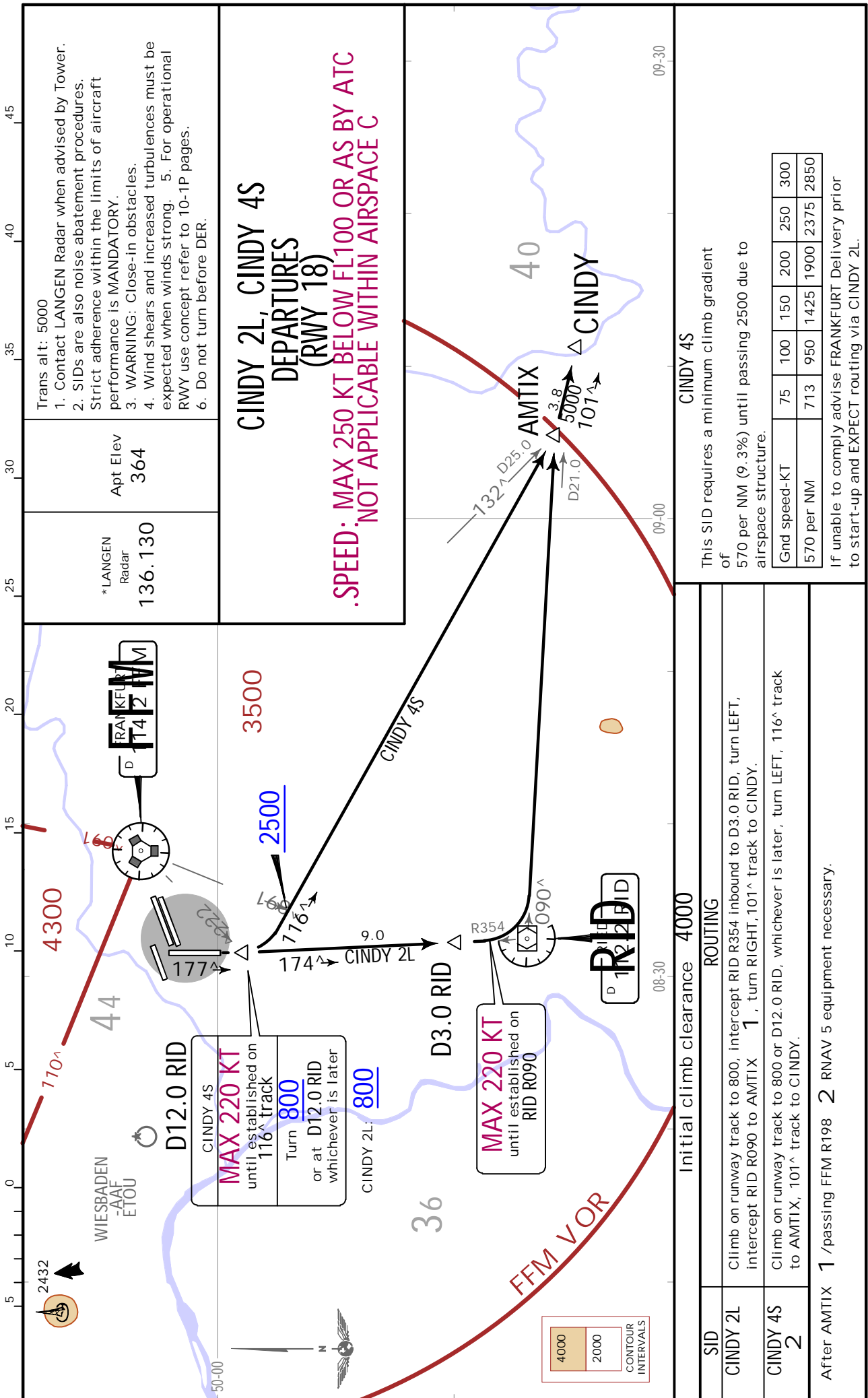
29 OCT 21 10-3E .Eff.4.Nov. .SID.



# EDDF/FRA FRANKFURT/MAIN

JEPPesen FRANKFURT/MAIN, GERMANY  
29 OCT 21 10-3E1 Eff. 4. Nov.

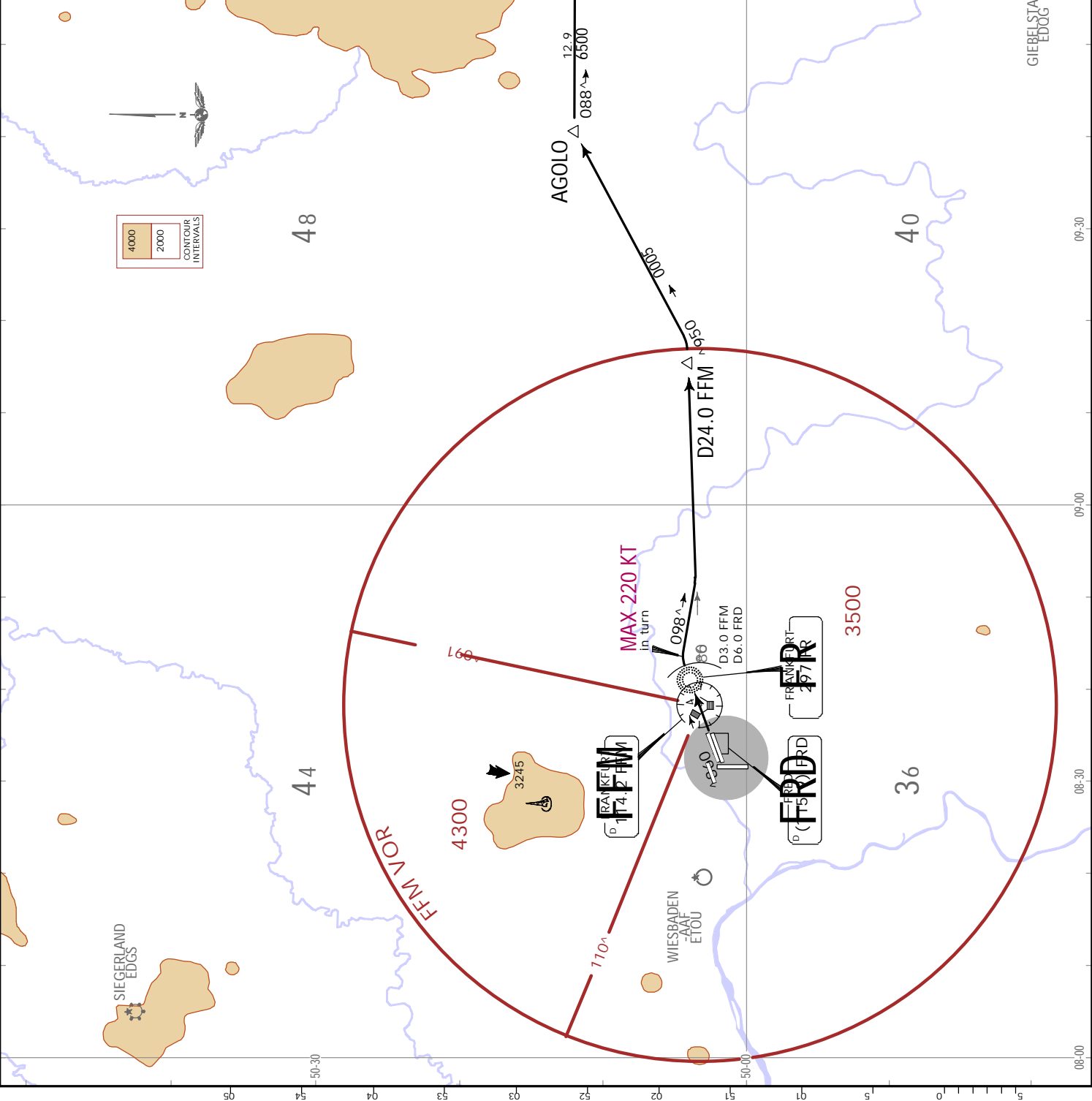
.SID.



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.

**KOMIB 3D**  
**RWYS 07C/R DEPARTURE 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. 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.

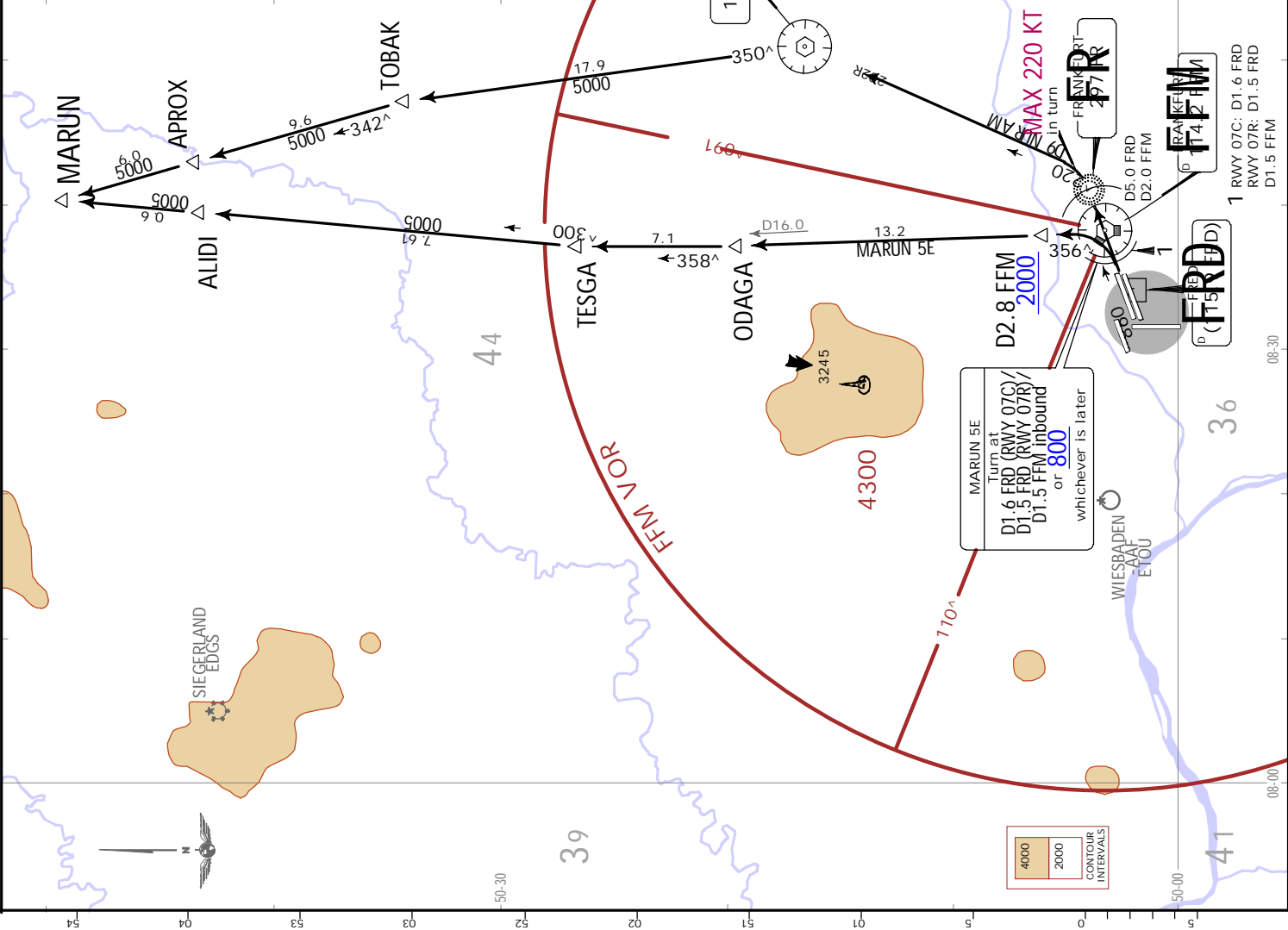
\*LANGEN Radar  
120.155  
Apt Elev  
364

**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 383 per NM (6.3%) until passing 2000.  
If unable to comply advise FRANKFURT Delivery prior to start-up.

Grnd speed-KT	75	100	150	200	250	300
383 per NM	479	638	957	1276	1595	1914

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 2, turn LEFT, MTR R350 to TOBAK, turn LEFT, 342° track via APPROX to MARUN.  
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 TESSGA, turn RIGHT, 003° track via ALIDI to MARUN.  
BRNAV equipment necessary after: 2 MTR/ 3 ODAGA.



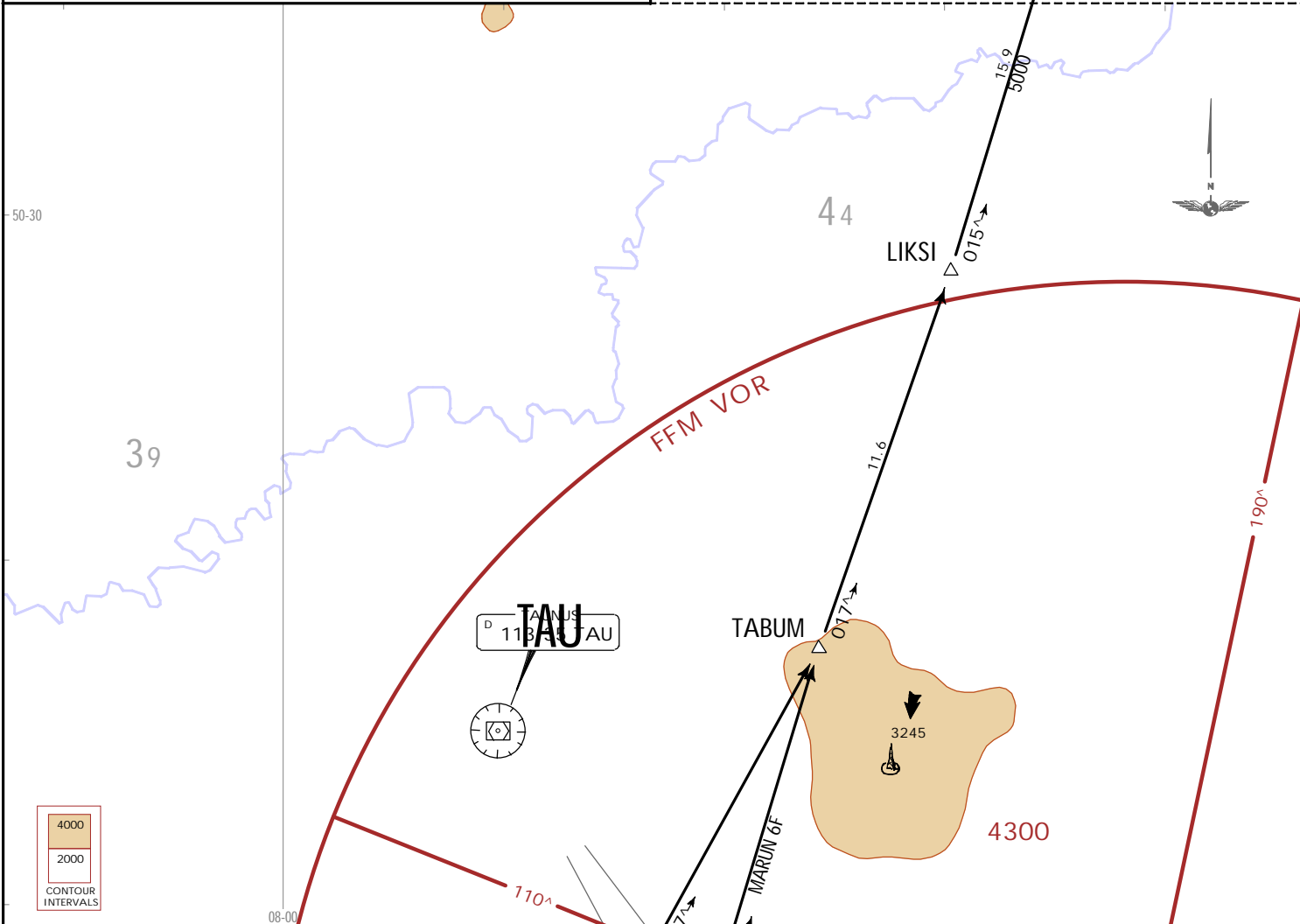
CHANGES: SID MARUN 6F availability.

EDDF/FRA  
FRANKFURT/MAIN  
JEPPesen  
10-3E4  
29 OCT 21  
EFF 4 NOV

*LANGEN Radar 120.155	Apt Elev 364	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 6F  
MARUN 9G  
DEPARTURES  
(RWYS 25L/C)**

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

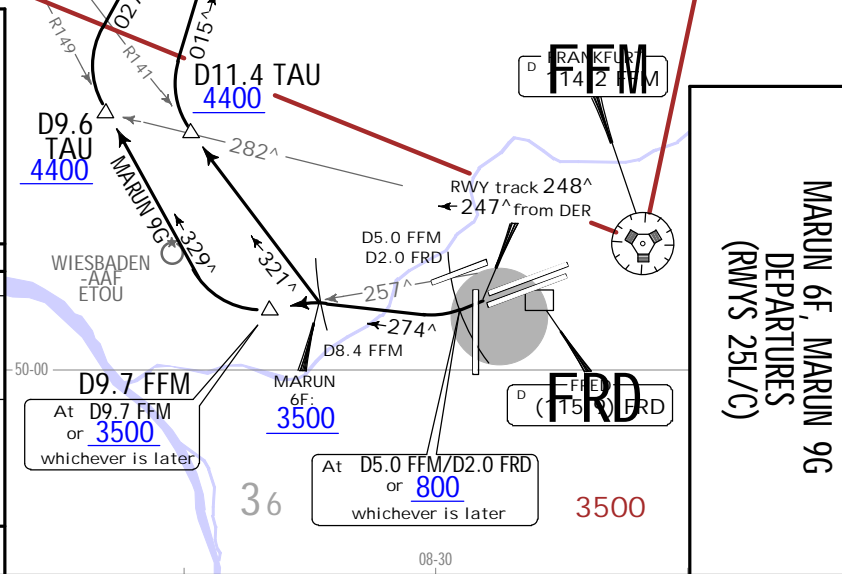


**MARUN 6F**  
This SID requires a minimum climb gradient of 729 per NM (12%) until D8.4 FFM (4.5 NM after DER) due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
729 per NM	911	1215	1823	2430	3038	3646

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

Initial climb clearance		5000
ROUTING		
MARUN 6F	Climb on runway track to D5.0 FFM/D2.0 FRD or 800, whichever is later, turn RIGHT, 274° track (RWY 25L: 278° track) to D8.4 FFM, turn RIGHT, intercept TAU R141 inbound to D11.4 TAU 1, turn RIGHT, 015° track to TABUM, turn RIGHT, 017° track to LIKSI, turn LEFT, 015° track via LORPA to MARUN.	
MARUN 9G	Climb on runway track to D5.0 FFM/D2.0 FRD or 800, whichever is later, turn RIGHT, 274° track (RWY 25L: 278° track), intercept FFM R257 to D9.7 FFM or 3500, whichever is later, turn RIGHT, intercept TAU R149 inbound to D9.6 TAU 2, turn RIGHT, 027° track to TABUM, turn LEFT, 017° track to LIKSI, turn LEFT, 015° track via LORPA to MARUN.	
RNAV 5 equipment necessary after:		1 D11.4 TAU.
BRNAV equipment necessary after:		2 D9.6 TAU.



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SID.

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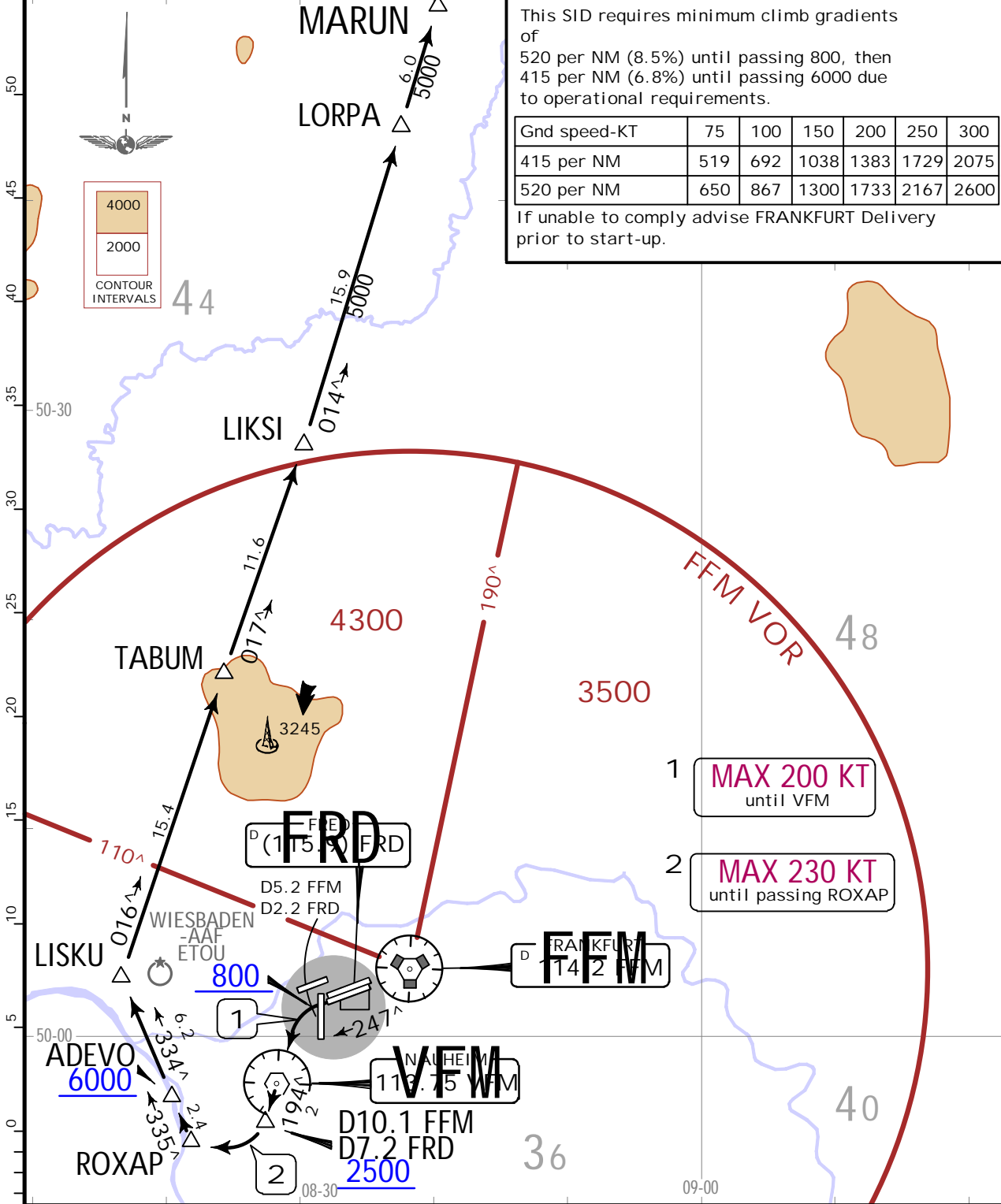
EDDF/FRA  
FRANKFURT/MAIN

20 AUG 21 10-3E5

JEPPESEN FRANKFURT/MAIN, GERMANY  
.SID.

\*LANGEN Radar 120.155  
Apt Elev 364  
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 5H**  
**RWY 25L DEPARTURE**  
**.SPEED: MAX 250 KT BELOW FL100**  
**OR AS BY ATC**  
**NOT APPLICABLE WITHIN AIRSPACE C**



Initial climb clearance **FL70**  
**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 LIKSI, to LORPA, to MARUN.

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

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FRANKFURT/MAIN

20 AUG 21 10-3E6

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.SID.

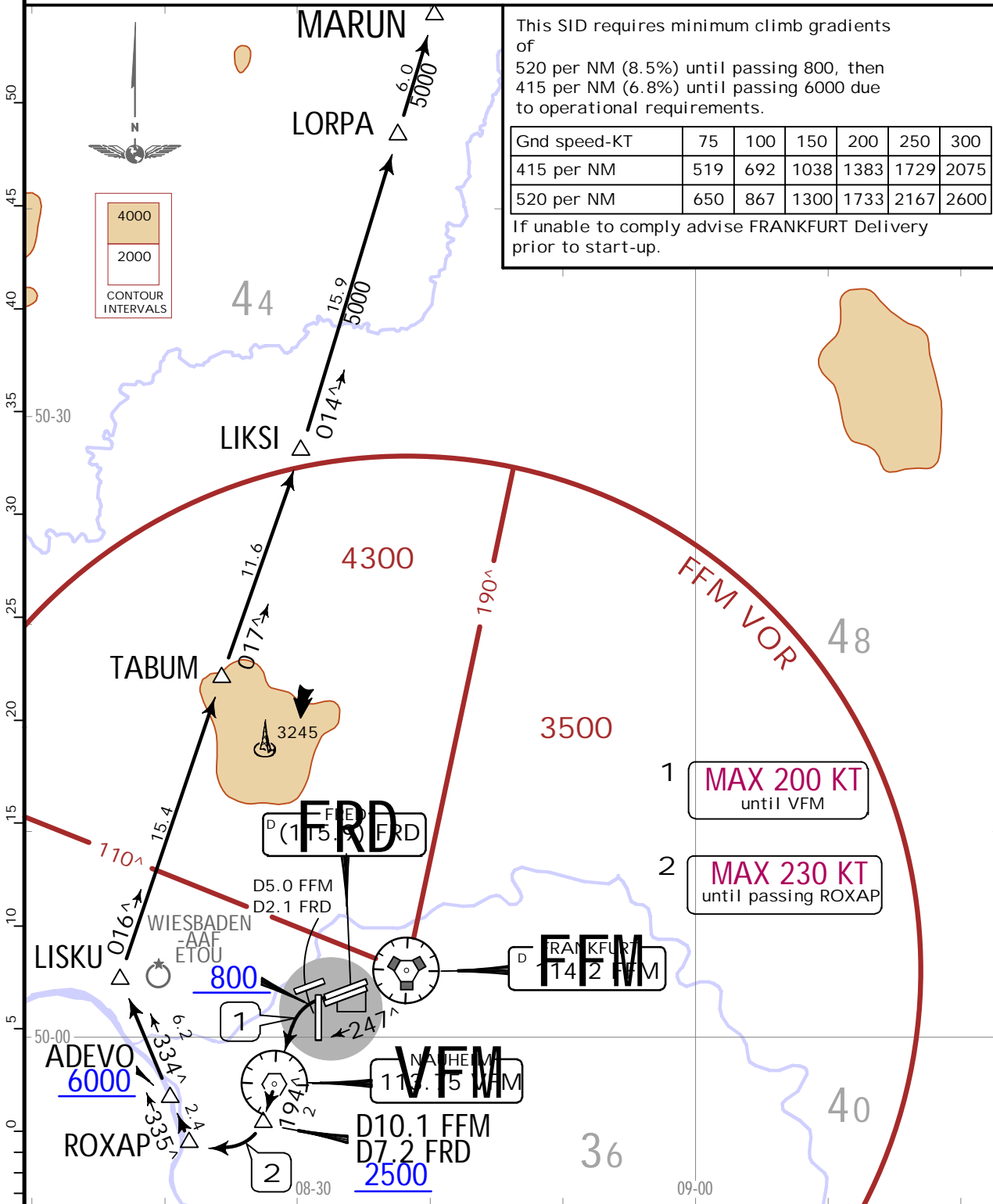
\*LANGEN Radar 120.155  
Apt Elev 364  
Trans alt: 5000  
1. Contact LANGEN Radar when advised by Tower.  
2. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY.  
3. For operational RWY use concept refer to 10-1P pages.

**MARUN 7M**  
**RWY 25C 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%) 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 **FL70**

**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.

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FRANKFURT/MAIN

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30 OCT 20 10-3E7 .Eff.5.Nov.

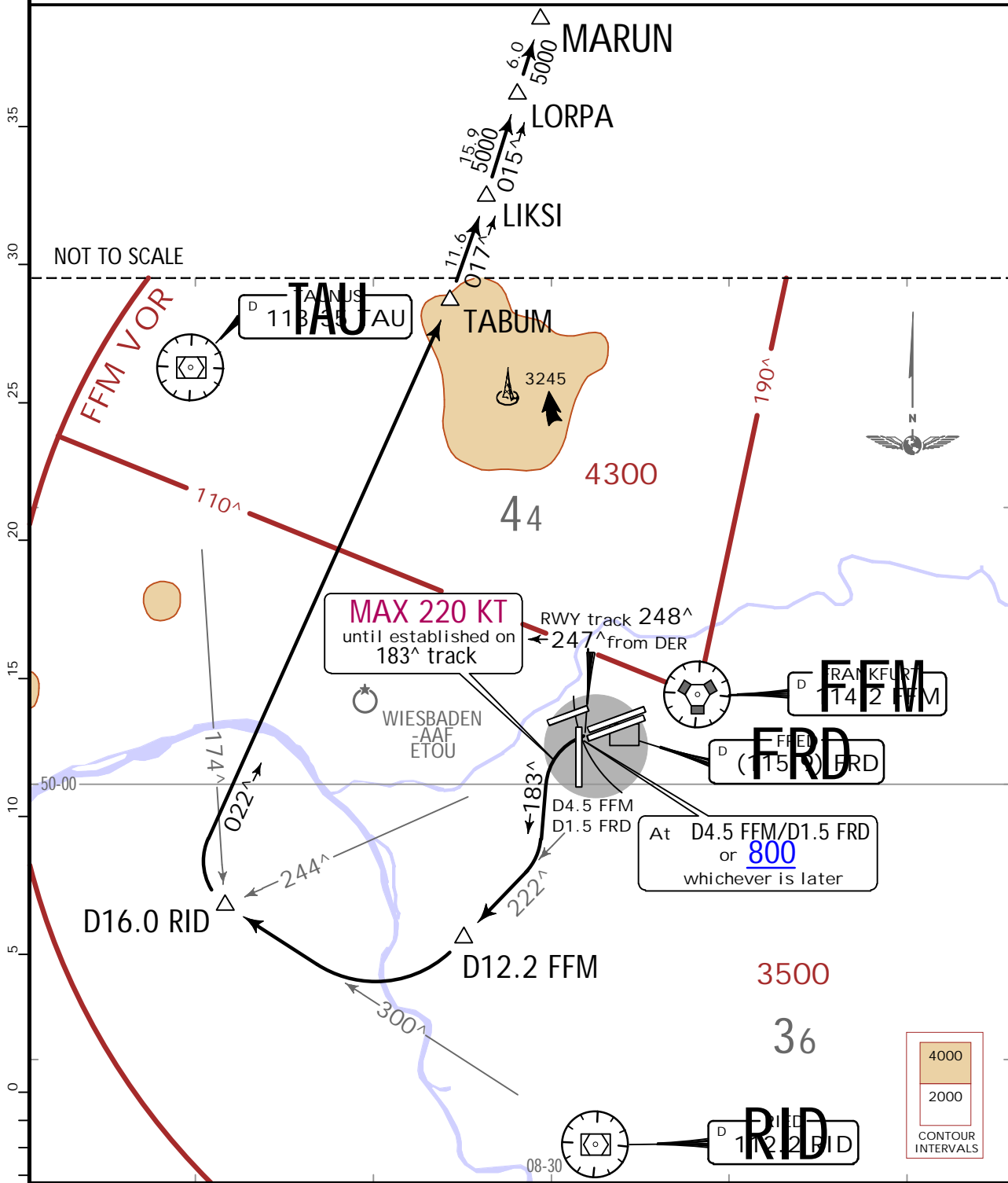
.SID.

\*LANGEN  
Radar  
120.155

Apt Elev  
364

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 9N  
RWYS 25L/C DEPARTURE  
.SPEED: MAX 250 KT BELOW FL100  
OR AS BY ATC  
NOT APPLICABLE WITHIN AIRSPACE C



ROUTING

Climb on runway track to D4.5 FFM/D1.5 FRD or 800, whichever is later, turn LEFT, 183<sup>^</sup> track, intercept FFM R222 to D12.2 FFM, turn RIGHT, intercept RID R300 to D16.0 RID 1, turn RIGHT, 022<sup>^</sup> track to TABUM, turn LEFT, 017<sup>^</sup> track to LIKSI, turn LEFT, 015<sup>^</sup> track via LORPA to MARUN.

1 After D16.0 RID BRNAV equipment necessary.



CHANGES: SID Remumbered: TAI VORDME replaced by TAU

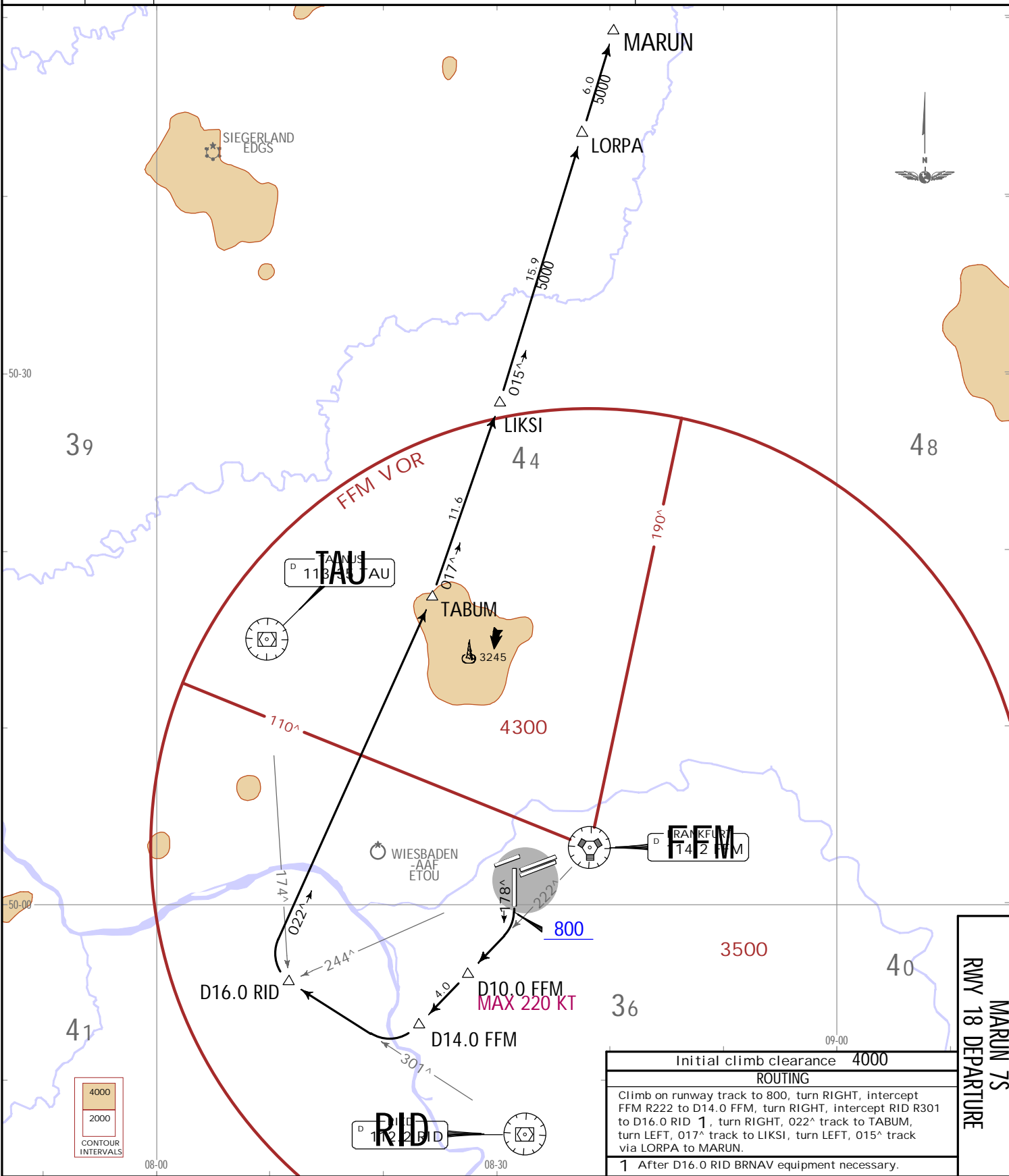
EDDF/FRA  
FRANKFURT/MAIN  
JEPPESSEN  
10-3E9  
10 JUL 20  
EFF. 16 JUL

\*LANGEN Radar  
120.155

Apt Elev  
364

- 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. EXPECT close-in obstacles.
  4. Wind shears and increased turbulences must be expected when winds strong.
  5. For operational RWY use concept refer to 10-1P pages.
  6. Do not turn before DER.

**MARUN 7S**  
**RWY 18 DEPARTURE**  
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
<b>ROUTING</b>	
Climb on runway track to 800, turn RIGHT, intercept FFM R222 to D14.0 FFM, turn RIGHT, intercept RID R301 to D16.0 RID <b>1</b> , turn RIGHT, 022° track to TABUM, turn LEFT, 017° track to LIKSI, turn LEFT, 015° track via LORPA to MARUN.	
<b>1</b> After D16.0 RID BRNAV equipment necessary.	

**MARUN 7S**  
**RWY 18 DEPARTURE**

FRANKFURT/MAIN, GERMANY  
SID.

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# EDDF/FRA

## FRANKFURT/MAIN

29 OCT 21

10-3F

.Eff.4.Nov.

# JEPPESEN FRANKFURT/MAIN, GERMANY

.SID.

\*LANGEN Radar  
136.130

Apt Elev  
364

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. Wind shears and increased turbulences must be expected when winds strong. 5. For operational RWY use concept refer to 10-1P pages. 6. Do not turn before DER.

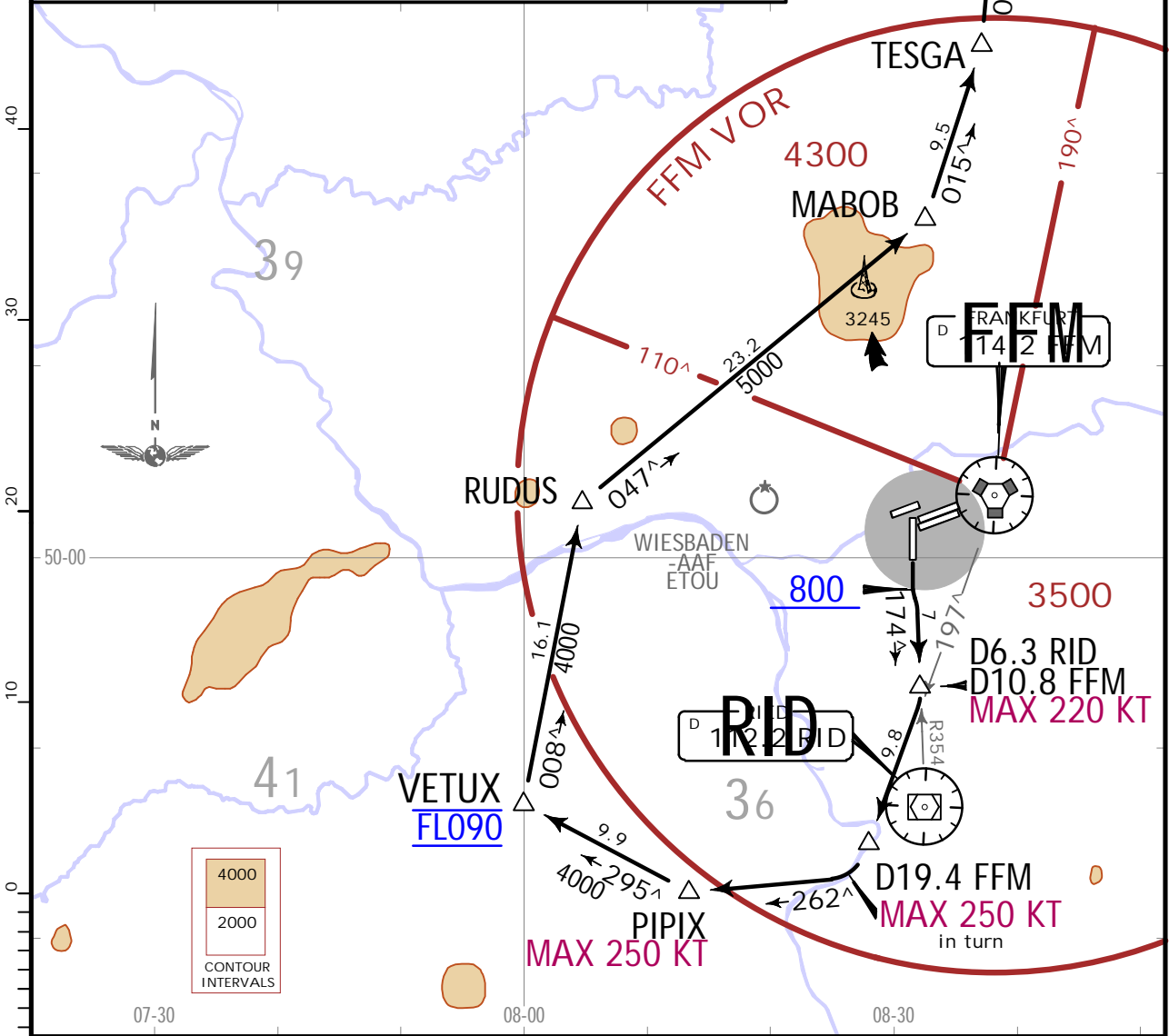
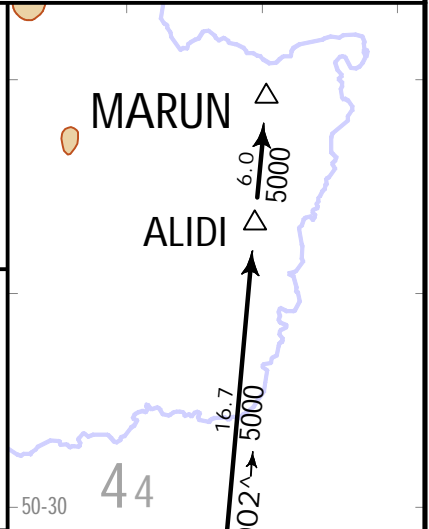
### MARUN 5T DEPARTURE (RWY 18)

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

This SID requires a minimum climb gradient of 345 per NM (5.7%) until passing FL090 due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
345 per NM	431	575	863	1150	1438	1725

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



Initial climb clearance 4000

### ROUTING

Climb on runway track to 800, intercept RID R354 inbound to D6.3 RID (D10.8 FFM), turn RIGHT, intercept FFM R197 to D19.4 FFM 1, turn RIGHT, 262^ track to PIPIX, turn RIGHT, 295^ track to VETUX, turn RIGHT, 008^ track to RUDUS, turn RIGHT, intercept 047^ track to MABOB, turn LEFT, 015^ track to TESGA, turn LEFT, 002^ track via ALIDI to MARUN.

1 After D19.4 FFM RNAV 5 equipment necessary.

EDDF/FRA  
FRANKFURT/MAIN

JEPESEN 29 OCT 21 10-3G .Eff.4.Nov.

FRANKFURT/MAIN, GERMANY  
.SID.

\*LANGEN  
Radar  
120.155

Apt Elev  
364

- 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.

### METRO 5C (MTR 5C)

### DEPARTURE

### (RWYS 07C/R)

NON RNAV (ENROUTE ONLY) EQUIPPED AIRCRAFT ONLY  
 DELAY HAS TO BE EXPECTED  
 FURTHER ROUTING TO DESTINATION SHALL BE BASED ON VOR AND  
 HAS TO BE COORDINATED WITH ATC PRIOR TO START-UP  
 NO RNAV OVERLAY EXISTING

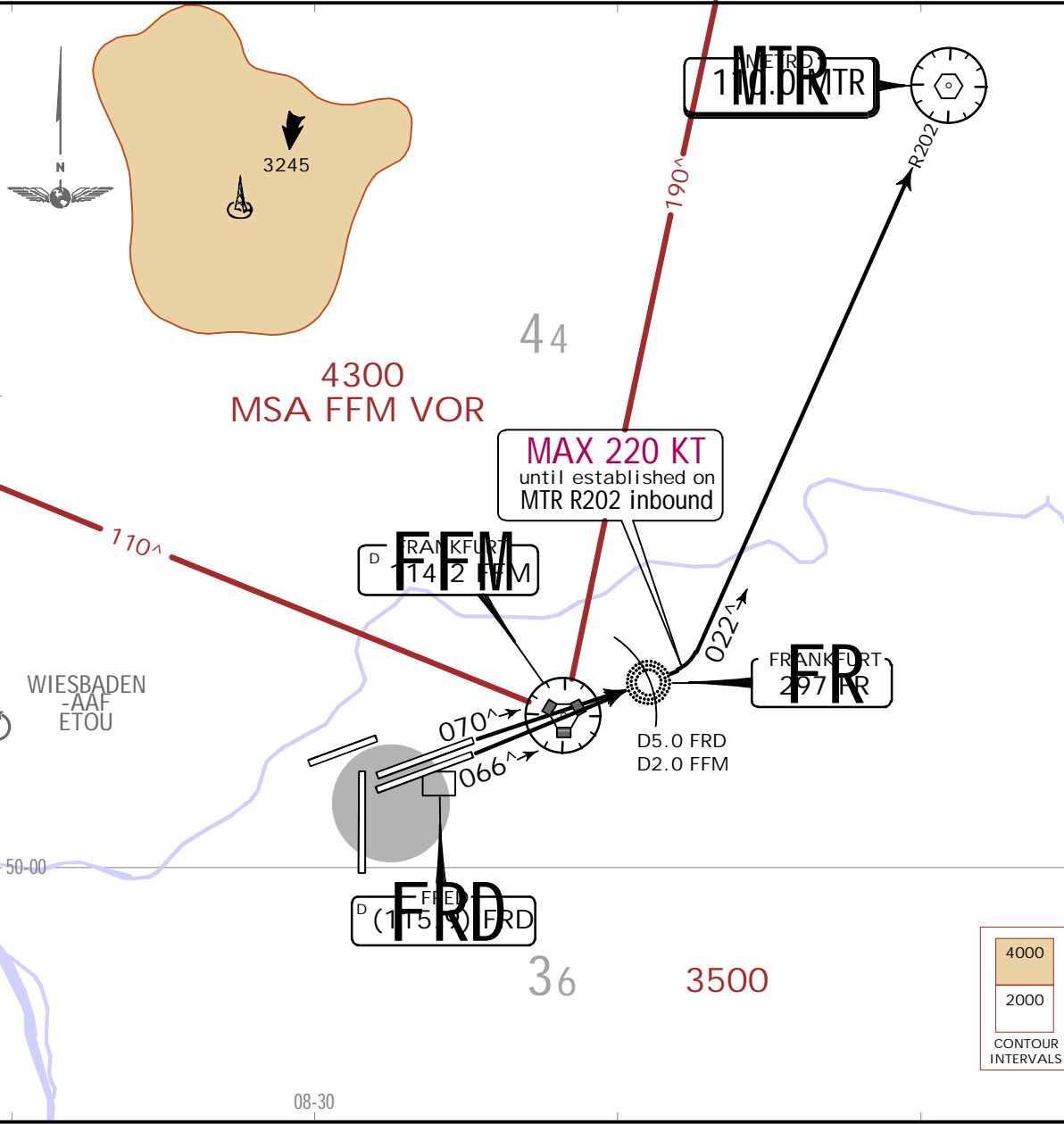
MAX FLO90

SPECIAL PERMISSION NEEDED PRIOR TO FLIGHT

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

**NOT APPLICABLE WITHIN AIRSPACE C**

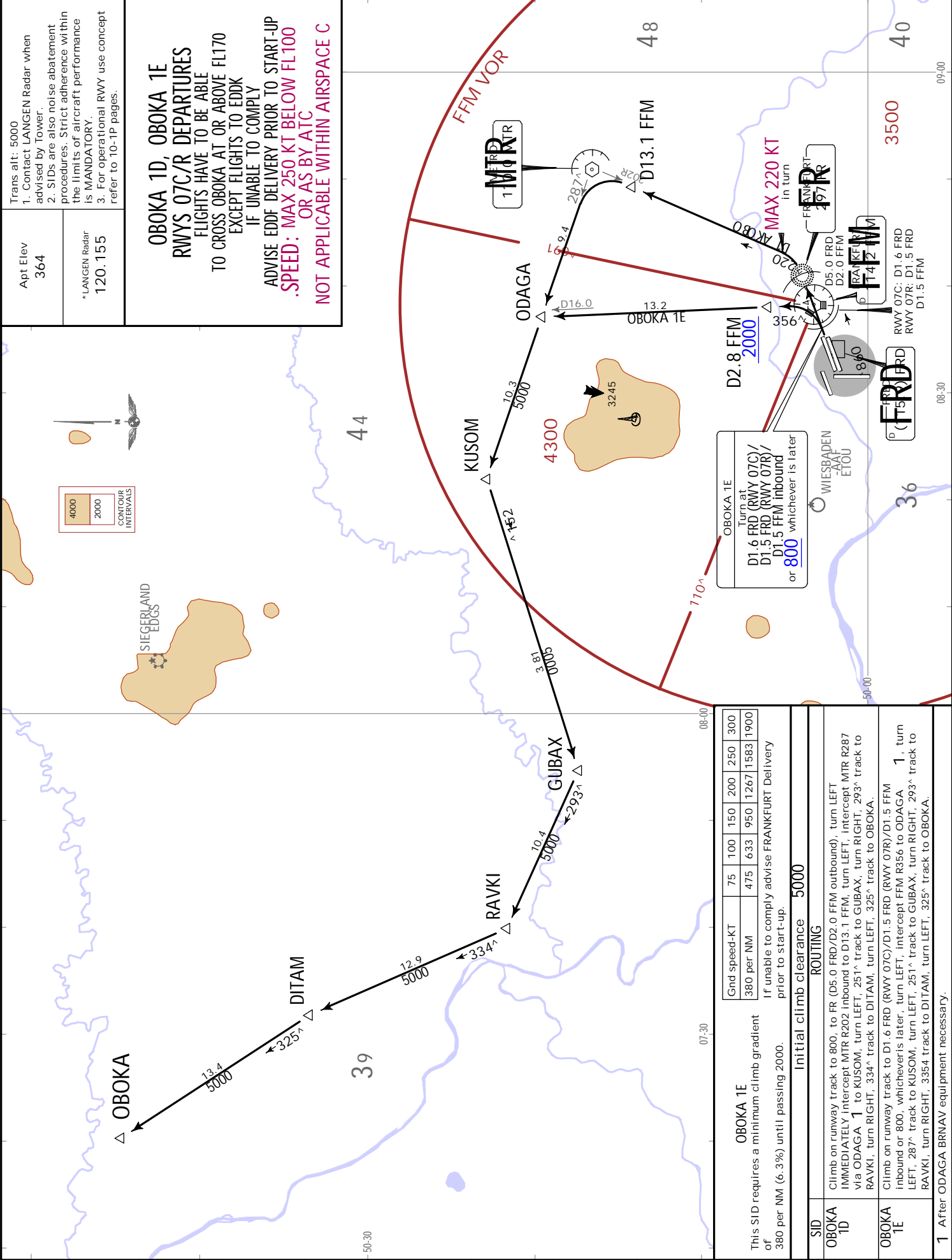
25  
20  
15  
10  
5  
0  
5



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 R202 inbound to MTR.



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.

Apt Elev  
364

\*LANGEN Radar  
120.155

**OBOKA 1D, OBOKA 1E  
RWYS 07C/R DEPARTURES  
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 WITH AIRSPACE C**

Gnd speed-KT	75	100	150	200	250	300
380 per NM	475	633	950	1267	1583	1900

This SID requires a minimum climb gradient of 380 per NM (6.3%) until passing 2000. If unable to comply advise FRANKFURT Delivery prior to start-up.

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 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, 334° track to DITAM, turn LEFT, 325° track to OBOKA.

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, 3354 track to DITAM, turn LEFT, 325° track to OBOKA.

1 After ODAGA BRNAV equipment necessary.

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 30 OCT 20 (10-3G2) .Eff.5. NOV.  
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 30 OCT 20 (10-3G2) .Eff.5. NOV.  
 EDDF/FRA  
 FRANKFURT/MAIN

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.

\*LANGEN Radar: 120.155  
 Apt Elev 364

**OBOKA 2G**  
**RWYS 25L/C 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 a minimum climb gradient of 350 per NM (5.8%) until passing 3600, due to airspace structure.

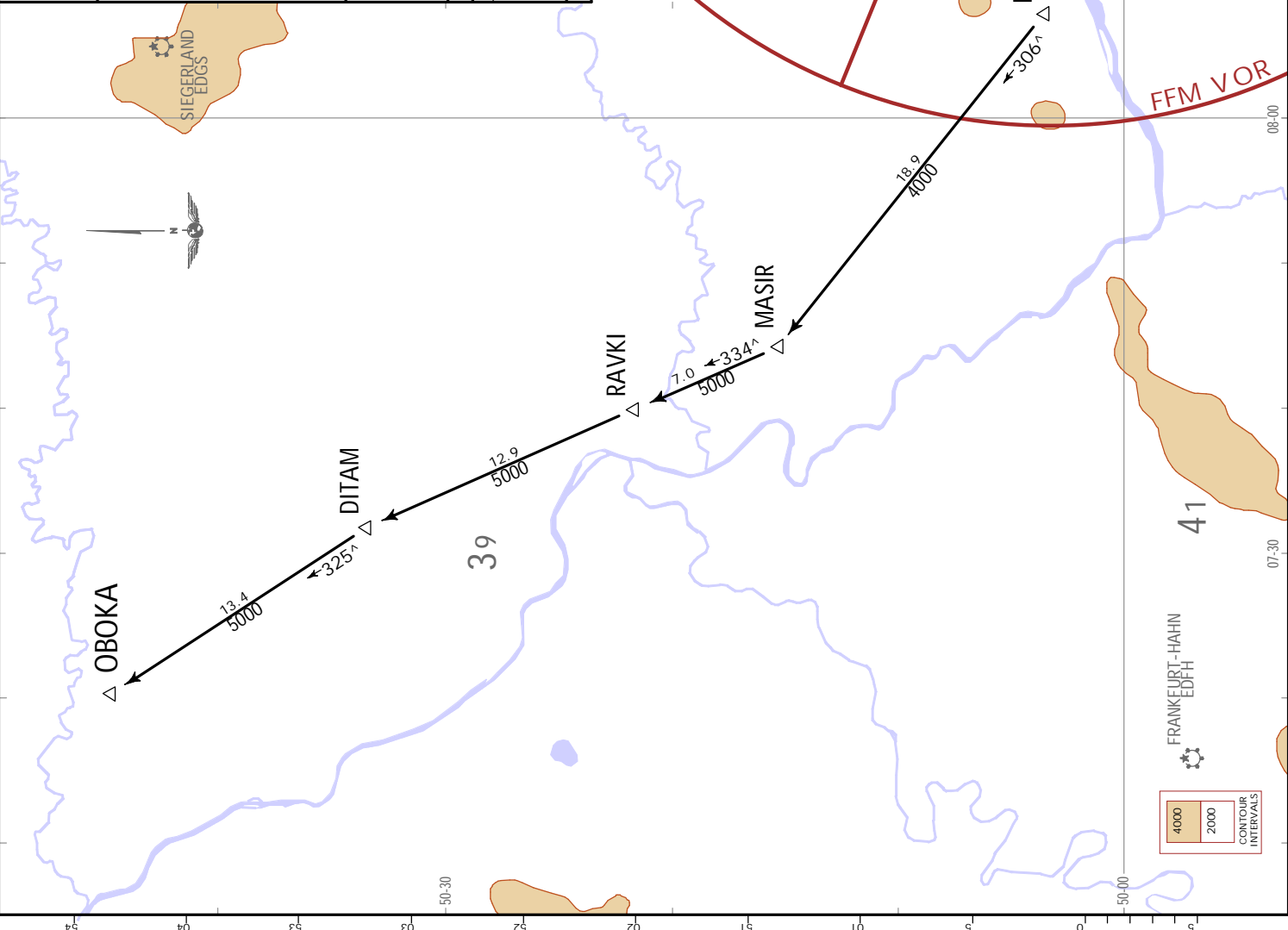
Gnd speed-KT	75	100	150	200	250	300
350 per NM	438	583	875	1167	1458	1750

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

Initial climb clearance **5000**

**ROUTING**  
 Climb on runway track to D5.0 FFM/D2.0 FRD or 800, whichever is later, turn RIGHT, 274°, track (RWY 25L: 278° track), intercept FFM R257 to D13.7 FFM ESUPI, turn RIGHT, 306°, track to MASIR, turn RIGHT, 334° track via RAVKI to DITAM, track to OBOKA.  
 1 After D13.7 FFM BRNAV/ equipment necessary.

Initial climb clearance **5000**



**FRANKFURT/MAIN, GERMANY**  
SID.

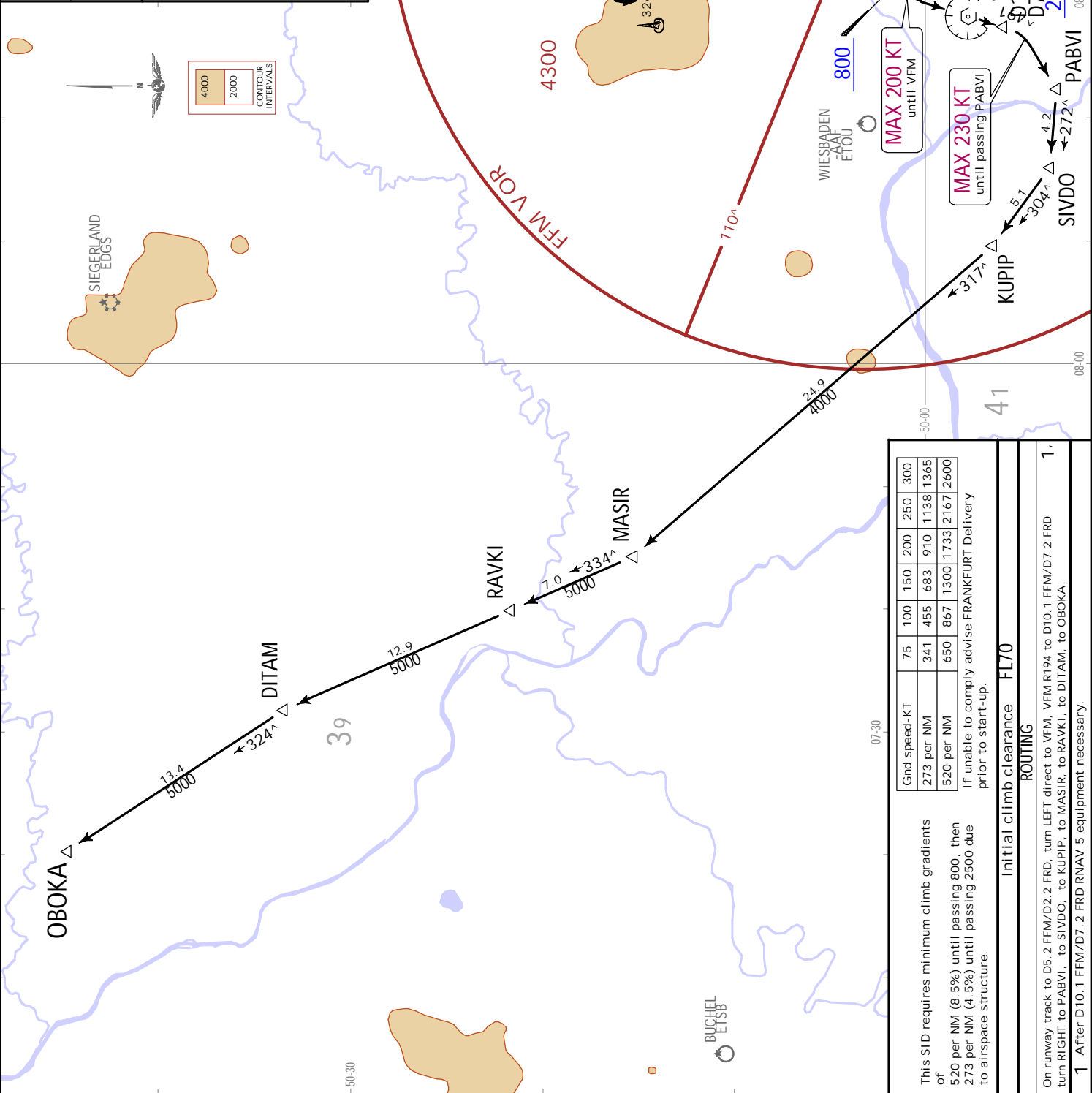
**EDDF/FRA**  
FRANKFURT/MAIN 20 AUG 21 (10-3G3)

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.

Apt Elev  
364

\*LANGEN Radar  
120.155

**OBOKA 2H**  
**RWY 25L 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**



Gnd speed-KT	75	100	150	200	250	300
273 per NM	341	455	683	910	1138	1365
520 per NM	650	867	1300	1733	2167	2600

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

This SID requires minimum climb gradients of 5.20 per NM (8.5%) until passing 800, then 2.73 per NM (4.5%) until passing 2500 due to airspace structure.

**Initial climb clearance FL70**

**ROUTING**

1. 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.



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FRANKFURT/MAIN  
20 AUG 21 (10-3G4)  
JEPPesen  
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 10-1P pages.

\*LANGEN Radar  
120.155

Apt Elev  
364

**OBOKA 2M  
RWY 25C 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%) until passing 800, then 273 per NM (4.5%) until passing 2500 due to airspace structure.

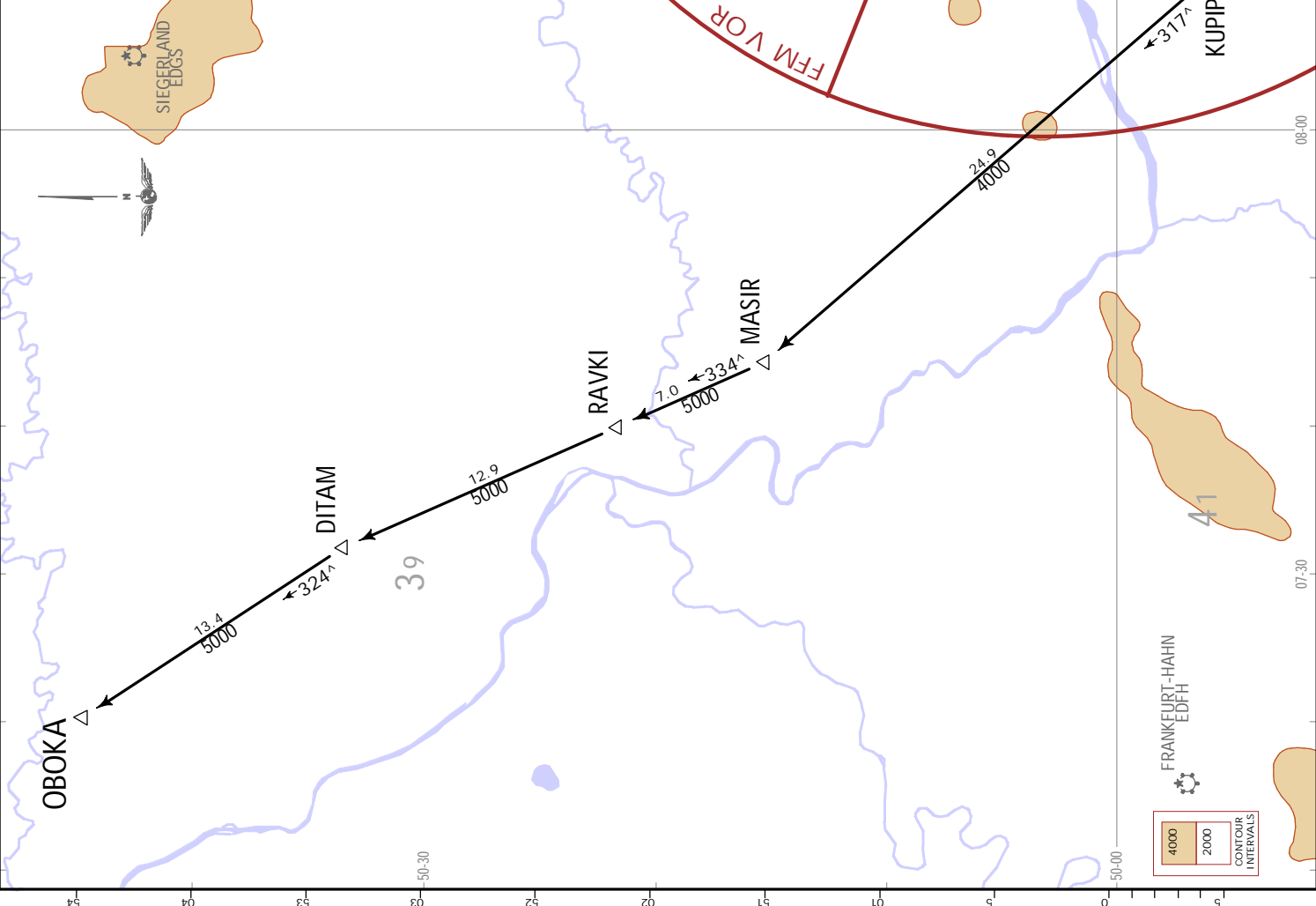
Gnd speed-KT	75	100	150	200	250	300
273 per NM	341	455	683	910	1138	1365
520 per NM	650	867	1300	1733	2167	2600

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

Initial climb clearance **FL70**

**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 KUPIP, to MASIR, to RAVKI, to DITAM, to OBOKA.  
 1 After D10.1 FFM/D7.2 FRD RNAV 5 equipment necessary.

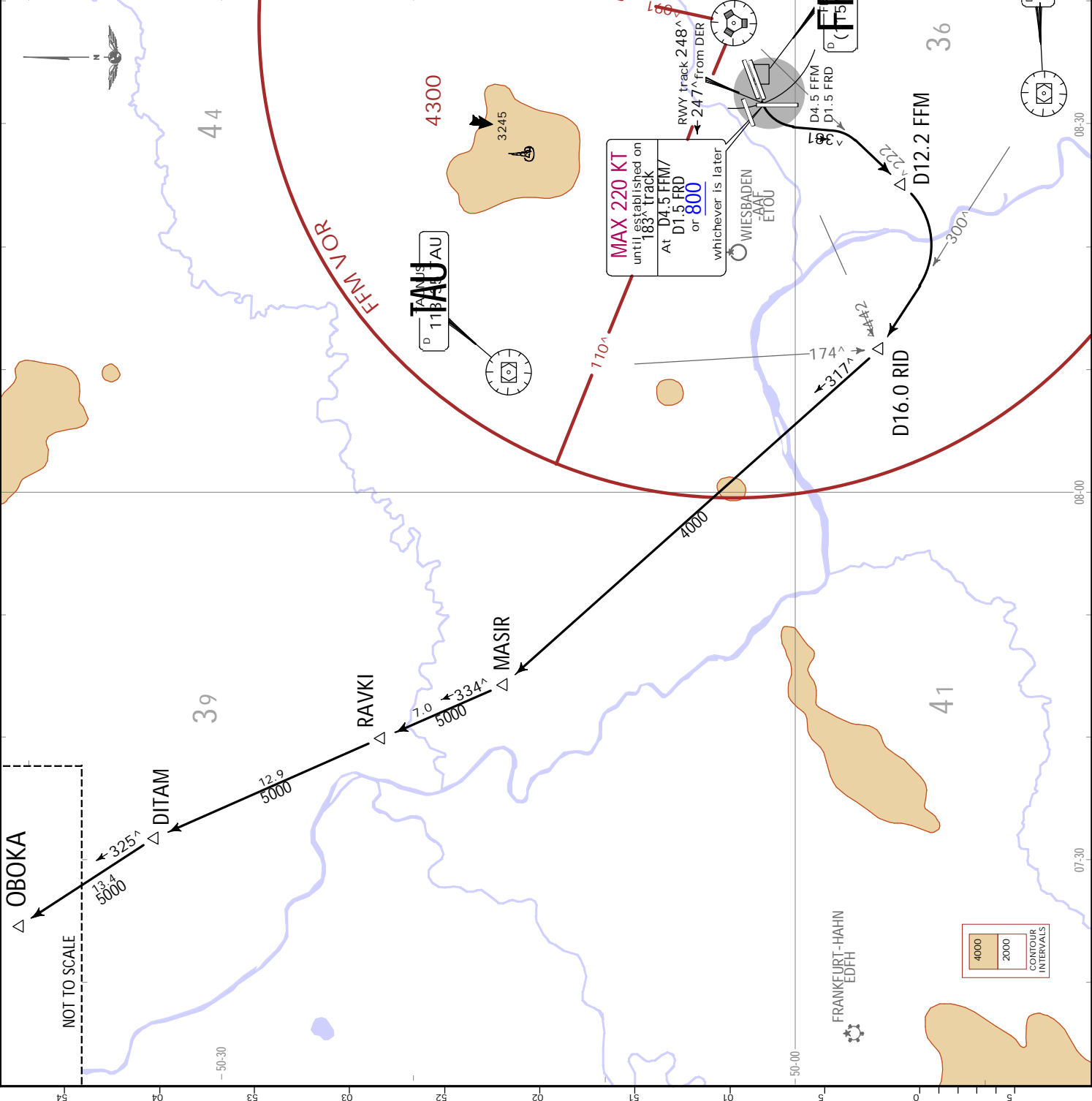


FRANKFURT/MAIN, GERMANY  
SID.

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 10-1P pages.

**OBOKA 4N**  
**RWYS 25L/C 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**

Initial climb clearance 5000  
**ROUTING**  
Climb on runway track to D4.5 FFM/D1.5 FRD or 800, whichever is later, turn LEFT, 183° track, intercept FFM R222 to D12.2 FFM, turn RIGHT, intercept RID R300 to D16.0 RID 1, turn RIGHT, 317° track to MASIR, turn RIGHT, 334° track via RAVKI to DITAM, turn LEFT, 325° track to OBOKA.  
1 After D16.0 RID BRNAV equipment necessary.



EDDF/FRA  
FRANKFURT/MAIN  
JEPPESSEN  
10-3 G5  
30 OCT 20  
EFF. 5 NOV.

CHANGES: SID renumbered & revised.  
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JEPPesen  
 EDDF/FRA  
 FRANKFURT/MAIN 30 OCT 20 (10-3G6) .Eff.5.Nov.  
 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. WARNING: Close-in obstacles.  
 4. Wind shears and increased turbulences must be expected when winds strong.  
 5. For operational RWY use concept refer to 10-1P pages.  
 6. Do not turn before DER.

**OBOKA 1L**  
**OBOKA 3S**

WILL ONLY BE ASSIGNED WHEN LANDING DIRECTION IS 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

RWY 18 DEPARTURES  
 .SPEED: MAX 250 KT BELOW FL100  
 OR AS BY ATC  
 NOT APPLICABLE WITHIN AIRSPACE C

**OBOKA 1L**  
 This SID requires a minimum climb gradient of 280 per NM (4.6%) until passing 2000 due to airspace structure.

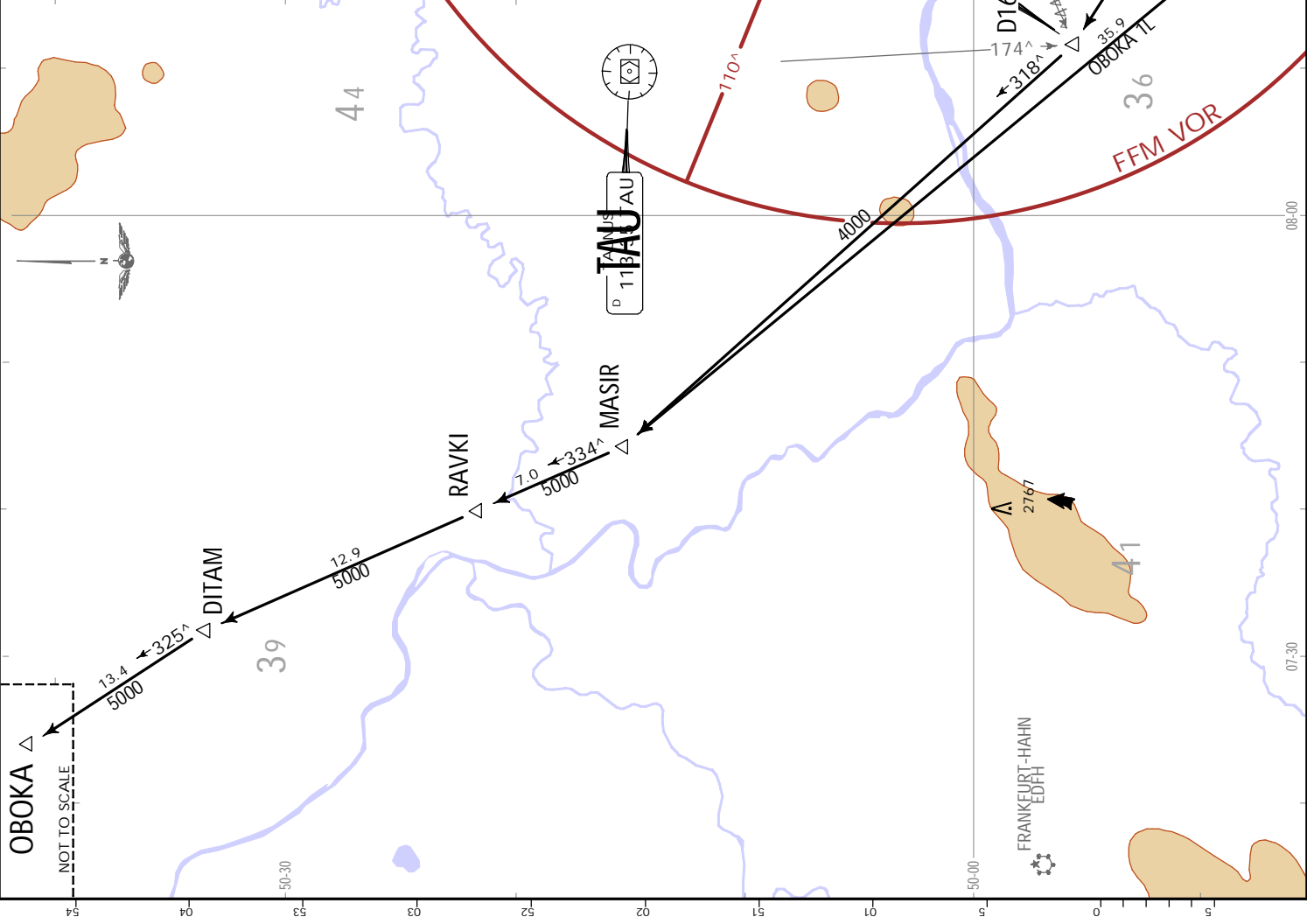
Gnd speed-KT	75	100	150	200	250	300
280 per NM	349	466	699	932	1165	1398

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

Initial climb clearance 4000

ROUTING	
OBOKA 1L	Climb on runway track to 800, intercept RID R356 inbound to D7.0 RID (D10.2 FFM) turn RIGHT, 238° track to XAMUB, turn RIGHT, 319° track to MASIR, turn RIGHT, 334° track via RAVKI to DITAM, turn LEFT, 325° track to OBOKA.
OBOKA 3S	Climb on runway track to 800, turn RIGHT, intercept FFM R222 to D14.0 FFM, turn RIGHT, intercept RID R301 to D16.0 RID 2, turn RIGHT, 318° track to MASIR, turn RIGHT, 334° track via RAVKI to DITAM, turn LEFT, 325° track to OBOKA.

BRNAV equipment necessary after: 1 D7.0 RID (D10.2 FFM)/ 2 D16.0 RID.



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 .SID.

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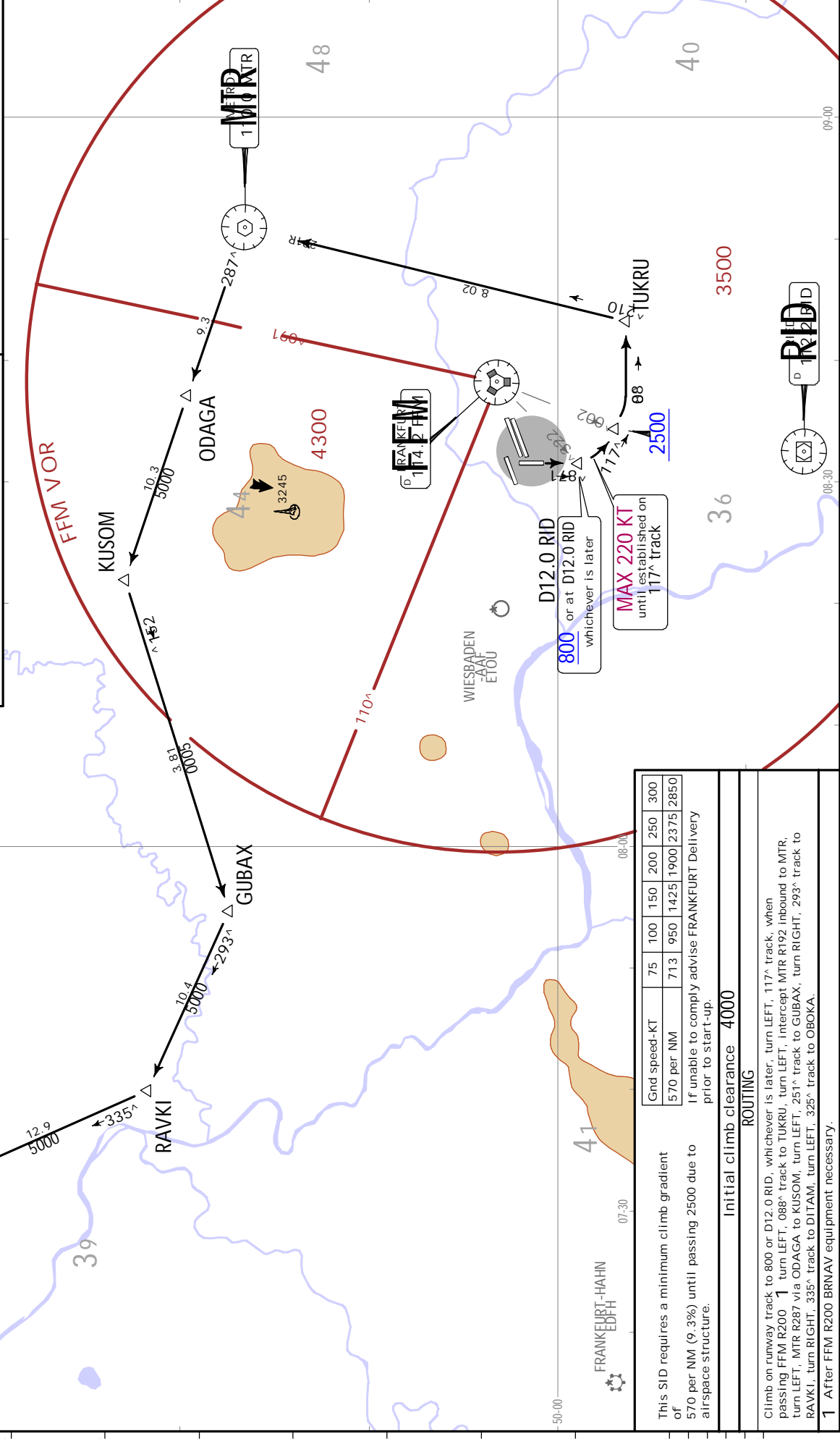
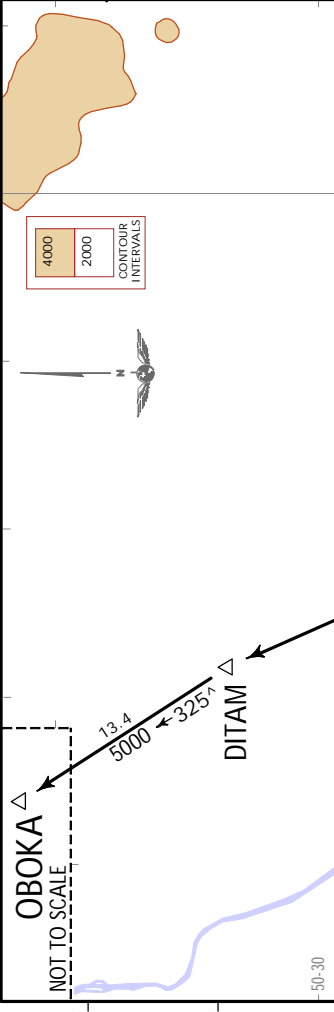
OBOKA 1R  
 DEPARTURE  
 (RWY 18)  
 BY ATC

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

\*LANGEN Radar 120.155  
 Apt Elev 364

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.
- WARNING: Close-in obstacles.
- Wind shears and increased turbulences must be expected when winds strong.
- For operational RWY use concept refer to 10-1P pages.
- Do not turn before DER.



Grnd speed-KT	75	100	150	200	250	300
570 per NM	713	950	1425	1900	2375	2850

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

Initial climb clearance 4000

ROUTING

This SID requires a minimum climb gradient of 570 per NM (9.3%) until passing 2500 due to airspace structure.

Climb on runway track to 800 or D12.0 RID, whichever is later, turn LEFT, 117° track, when passing FFM R200 1 turn LEFT, 088° track to TUKRU, turn LEFT, intercept MTR R192 inbound to MTR, turn LEFT, MTR R287 via ODAGA to KUSOM, turn LEFT, 251° track to GUBAX, turn RIGHT, 293° track to RAVKI, turn RIGHT, 335° track to DITAM, turn LEFT, 325° track to OBOKA.

1 After FFM R200 BRNAV equipment necessary.

**EDDF/FRA**  
FRANKFURT/MAIN  
29 OCT 21 (10-3J) .Eff. 4 NOV. .SID.

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.
- WARNING: Close-in obstacles.
- Wind shears and increased turbulences must be expected when winds strong.
- For operational RWY use concept refer to 10-1P pages.
- Do not turn before DER.

Apt Elev 364  
\*LANGEN Radar 136.130

**OBOKA 2T 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

This SID requires a minimum climb gradient of 345 per NM (5.7%) until passing FL090 due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
345 per NM	431	575	863	1150	1438	1725

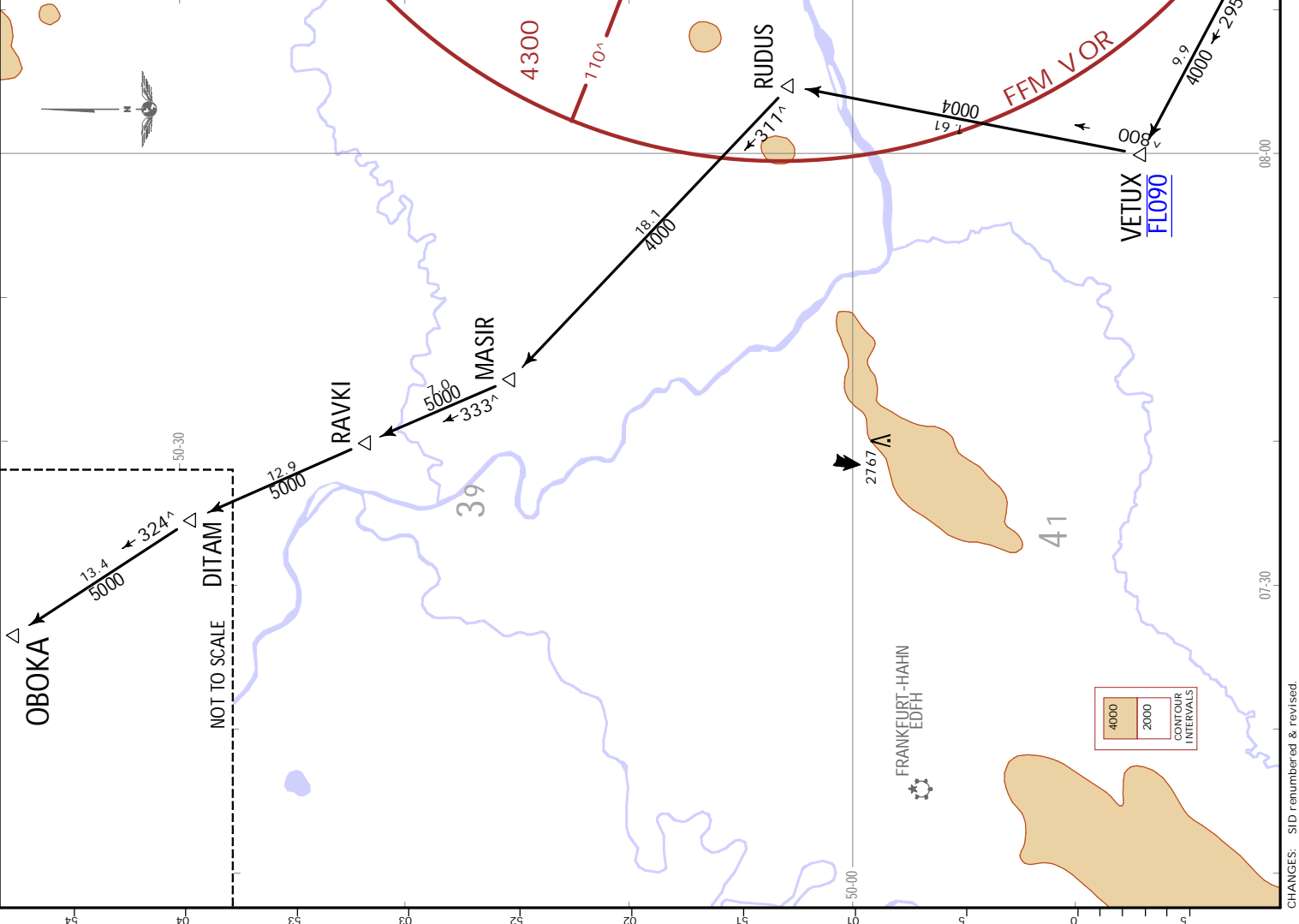
If unable to comply advise FRANKFURT Delivery prior to start-up.

Initial climb clearance 4000

**ROUTING**

Climb on runway track to 800, intercept RID R354 inbound to D6.3 RID (D10.8 FFM), turn RIGHT, intercept FFM R197 to D19.4 FFM. 1 turn RIGHT, 262° track to PIPX, turn RIGHT, 295° track to VETUX, turn RIGHT, 008° track to RUDUS, turn LEFT, 311° track to MASIR, turn RIGHT, 333° track via RAVKI to DITAM, turn LEFT, 324° track to OBOKA.

1 After D19.4 FFM RNAV 5 equipment necessary.



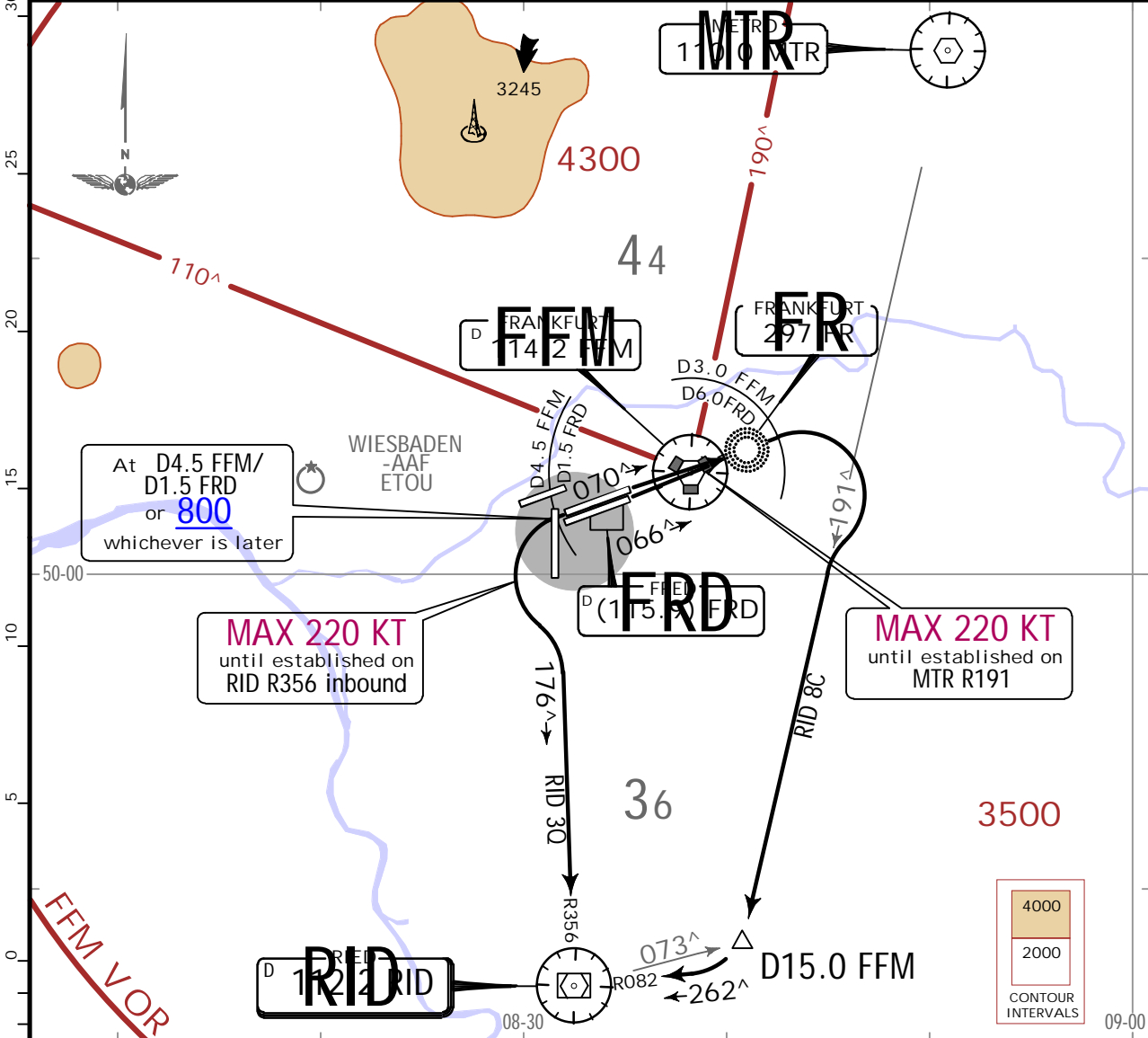
**EDDF/FRA**  
FRANKFURT/MAIN

**JEPPESSEN** FRANKFURT/MAIN, GERMANY  
7 SEP 18 (10-3J1) .Eff.13.Sep.

.SID.

*LANGEN Radar 136.130	Apt Elev 364	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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**RIED 8C (RID 8C)**  
**RIED 3Q (RID 3Q)**  
**DEPARTURES**  
 NON RNAV (ENROUTE ONLY) EQUIPPED AIRCRAFT ONLY  
 DELAY HAS TO BE EXPECTED  
 FURTHER ROUTING TO DESTINATION SHALL BE BASED ON VOR AND  
 HAS TO BE COORDINATED WITH ATC PRIOR TO START-UP  
 NO RNAV OVERLAY EXISTING  
 MAX FL90  
 SPECIAL PERMISSION NEEDED PRIOR TO FLIGHT  
**SPEED: MAX 250 KT BELOW FL100**  
**OR AS BY ATC**  
**NOT APPLICABLE WITHIN AIRSPACE C**



RID 8C:	Initial climb clearance	4000
RID 3Q:	Initial climb clearance	5000

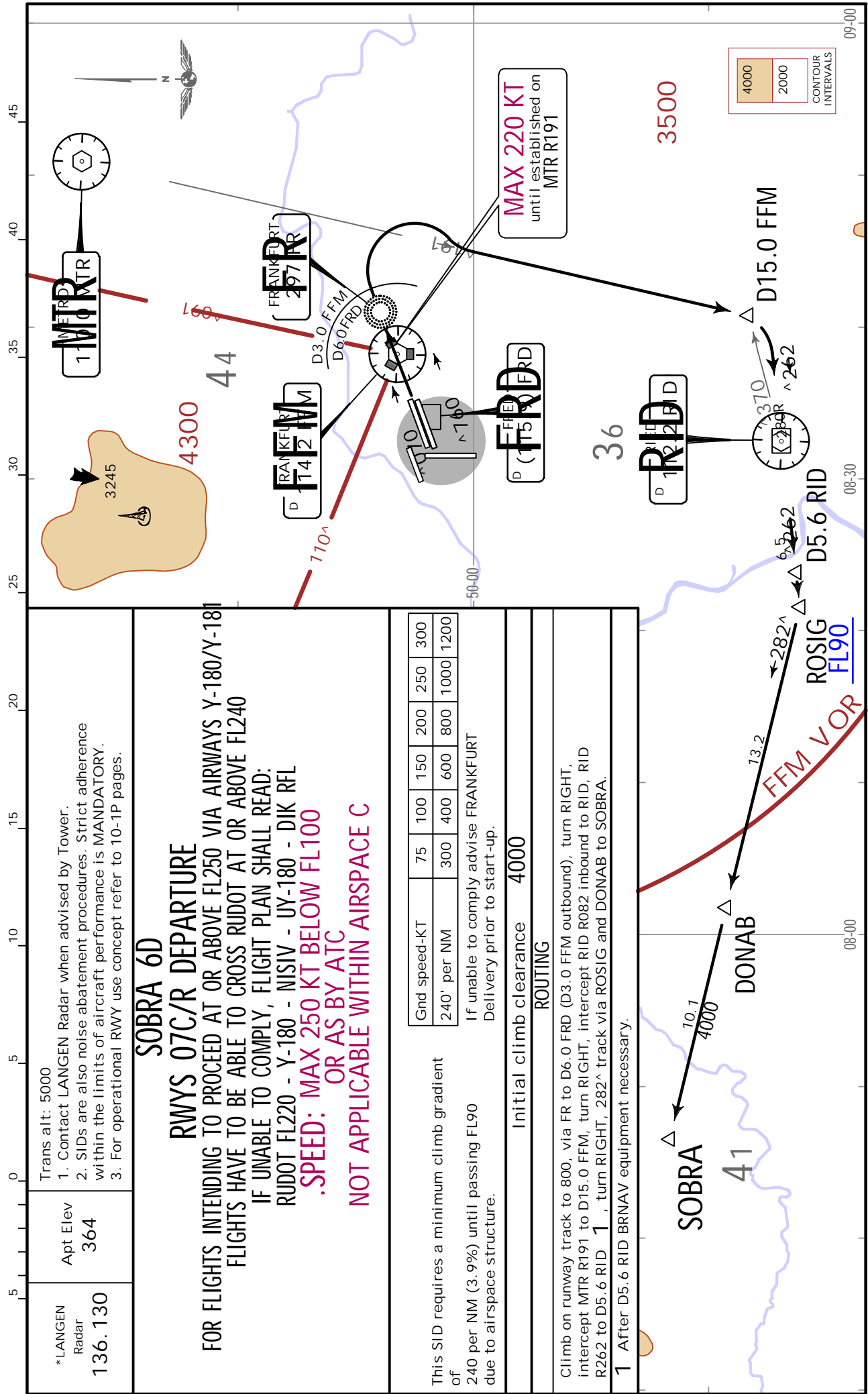
SID	RWY	ROUTING
RID 8C	07C/R	Climb on runway track to 800, via FR to D6.0 FRD (D3.0 FFM outbound), turn RIGHT, intercept MTR R191, at D15.0 FFM turn RIGHT, intercept RID R082 inbound to RID.
RID 3Q	25L/C	Climb on runway track to D4.5 FFM/D1.5 FRD or 800, whichever is later, turn LEFT, intercept RID R356 inbound to RID.



**EDDF/FRA**  
FRANKFURT/MAIN

**JEPPESSEN** FRANKFURT/MAIN, GERMANY  
7 SEP 18 (10-3J2) .Eff.13.Sep.

.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.

**SOBRA 6D**  
**RWYS 07C/R 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, 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**

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

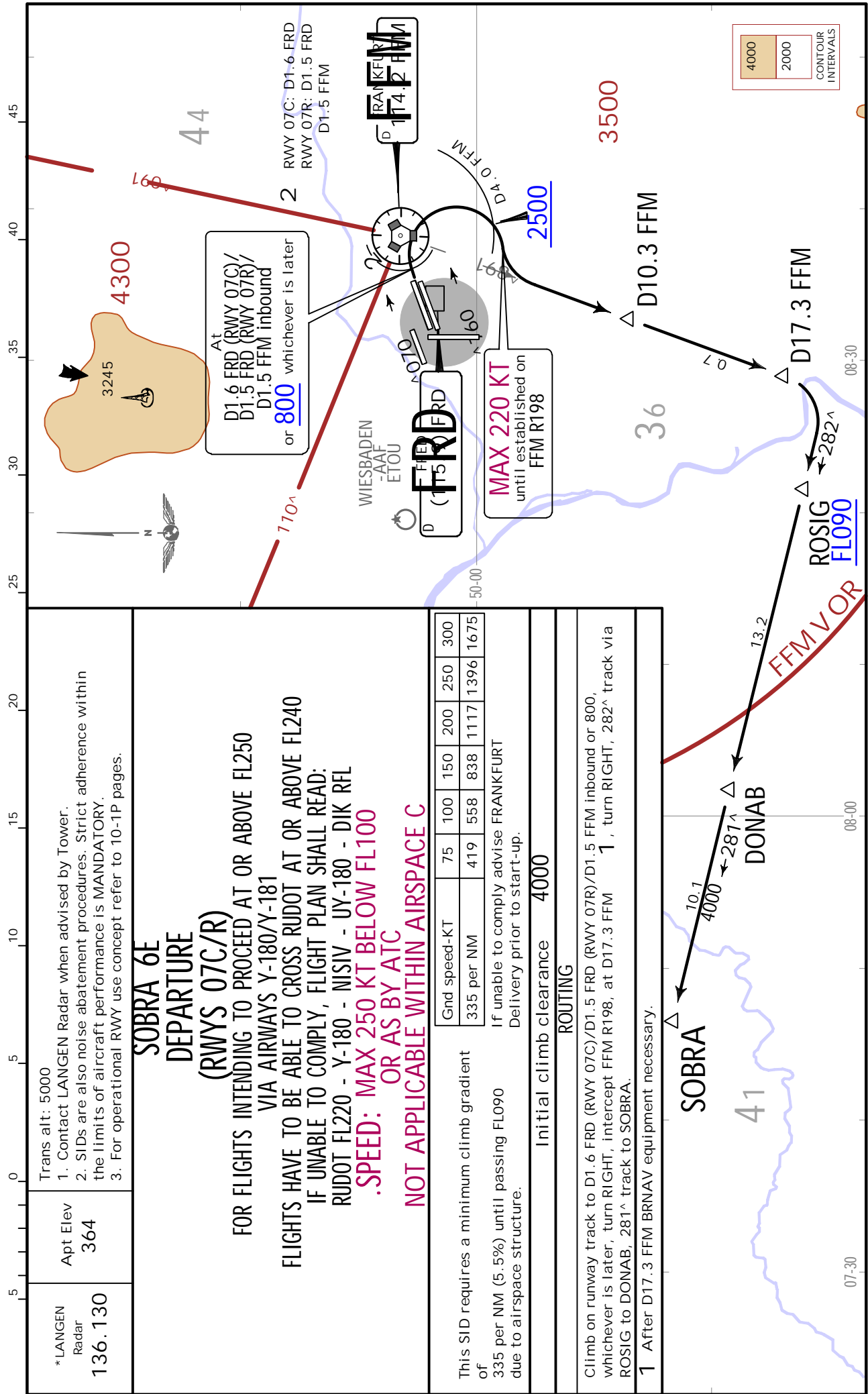
If unable to comply advise FRANKFURT Delivery prior to start-up.

Initial climb clearance **4000**  
**ROUTING**  
 Climb on runway track to 800, via FR to D6.0 FRD (D3.0 FFM outbound), turn RIGHT, intercept MTR R191 to D15.0 FFM, turn RIGHT, intercept RID R082 inbound to RID, RID R262 to D5.6 RID **1**, turn RIGHT, 282<sup>^</sup>, track via ROSIG and DONAB to SOBRA.  
**1** After D5.6 RID BRNAV equipment necessary.

**EDDF/FRA**  
FRANKFURT/MAIN

**JEPPESSEN** 29 OCT 21 **10-3K** .Eff.4.Nov.

**FRANKFURT/MAIN, GERMANY**  
.SID.

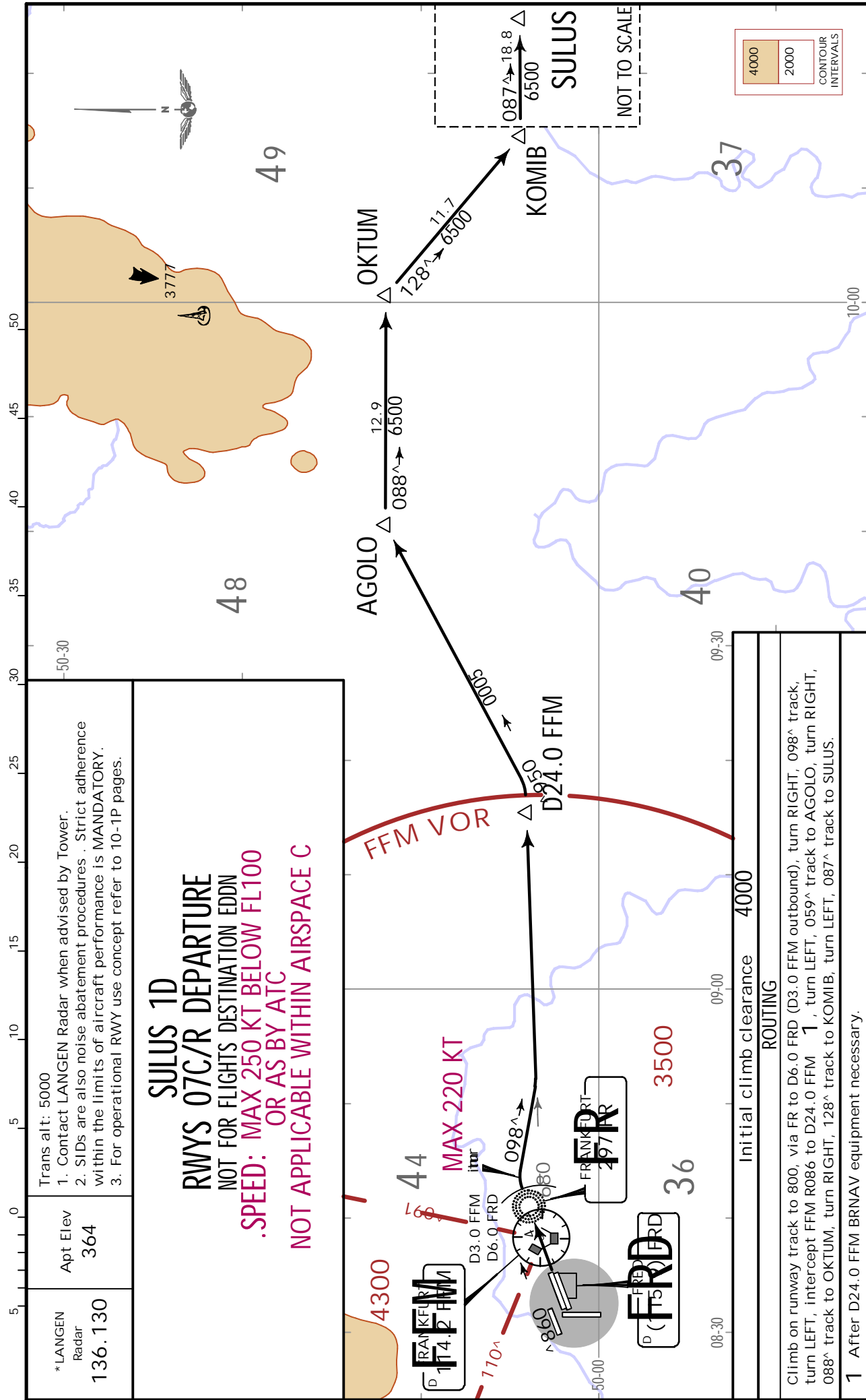




**EDDF/FRA**  
FRANKFURT/MAIN

**JEPPesen** FRANKFURT/MAIN, GERMANY  
7 SEP 18 (10-3L1) .Eff.13.Sep.

.SID.

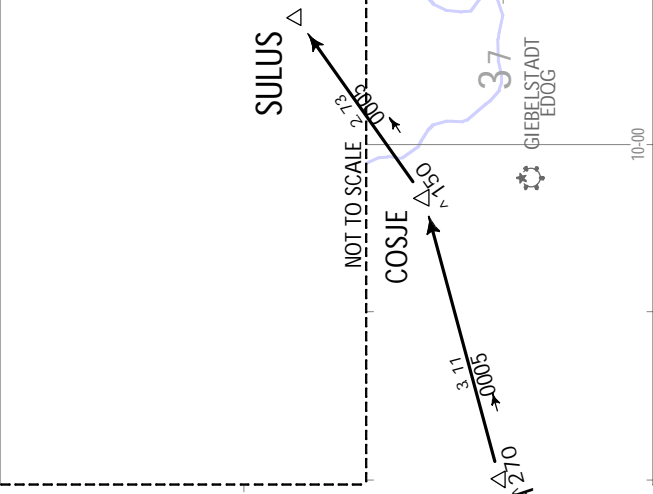


EDDF/FRA  
FRANKFURT/MAIN  
JEPPesen  
29 OCT 21 (10-3L2)  
Eff. 4. Nov.

FRANKFURT/MAIN, GERMANY  
SID.

*LANGEN Radar 136.130	Apt Elev 364	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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**SULUS 2F DEPARTURE (RWYS 25L/C)**  
**.SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC**  
**NOT APPLICABLE WITHIN AIRSPACE C**



This SID requires a minimum climb gradient of 320 per NM (5.2%) until passing 2500 due to airspace structure.

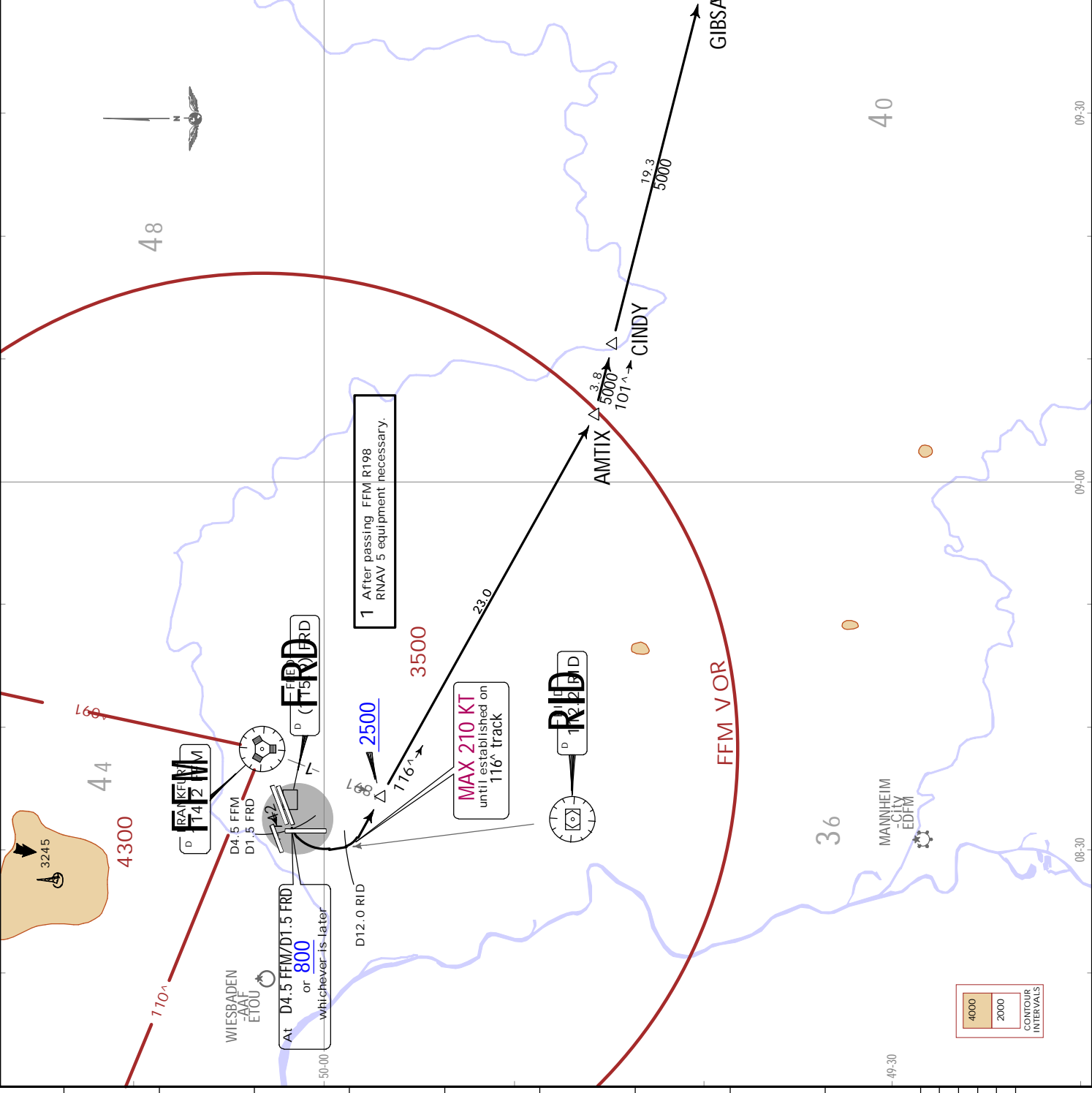
Gnd speed-KT	75	100	150	200	250	300
320 per NM	400	533	800	1067	1333	1600

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

Initial climb clearance	5000
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**ROUTING**

Climb on runway track to D4.5 FFM/D1.5 FRD or 800, whichever is later, turn LEFT towards RID, at D12.0 RID turn LEFT, 116° track to AMTIX, turn LEFT, 101° track via CINDY to GIBSA, turn LEFT, 072° track to COSJE, turn LEFT, 051° track to SULUS.



4000
2000

CONTOUR INTERVALS





EDDF/FRA  
FRANKFURT/MAIN

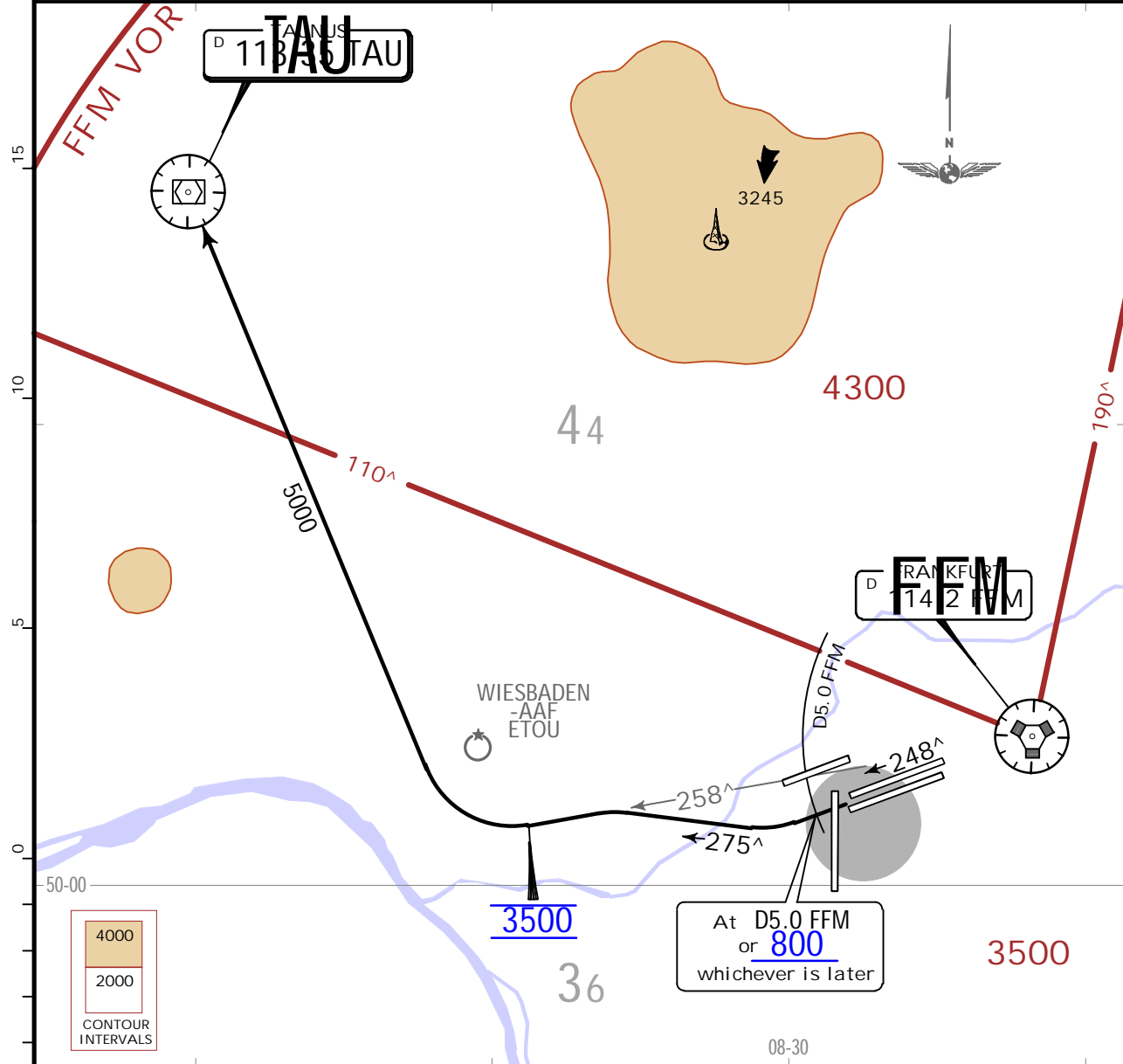
JEPPESEN FRANKFURT/MAIN, GERMANY  
29 OCT 21 (10-3L4) .Eff.4.Nov.

.SID.

*LANGEN Radar 120.155	Apt Elev 364	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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**TAUNUS 20 (TAU 20)**  
**DEPARTURE**  
**(RWYS 25L/C)**

NON RNAV (ENROUTE ONLY) EQUIPPED AIRCRAFT ONLY  
DELAY HAS TO BE EXPECTED  
FURTHER ROUTING TO DESTINATION SHALL BE BASED ON VOR AND  
HAS TO BE COORDINATED WITH ATC PRIOR TO START-UP  
NO RNAV OVERLAY EXISTING  
MAX FL090  
SPECIAL PERMISSION NEEDED PRIOR TO FLIGHT  
**.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 D5.0 FFM or 800, whichever is later, turn RIGHT, 275° track (RWY 25L: 278° track), intercept FFM R258, at 3500 turn RIGHT to TAU, but not before reaching FFM R258.



**EDDF/FRA**  
FRANKFURT/MAIN

**JEPPESEN** FRANKFURT/MAIN, GERMANY  
29 OCT 21 (10-3L6) .Eff.4.Nov.

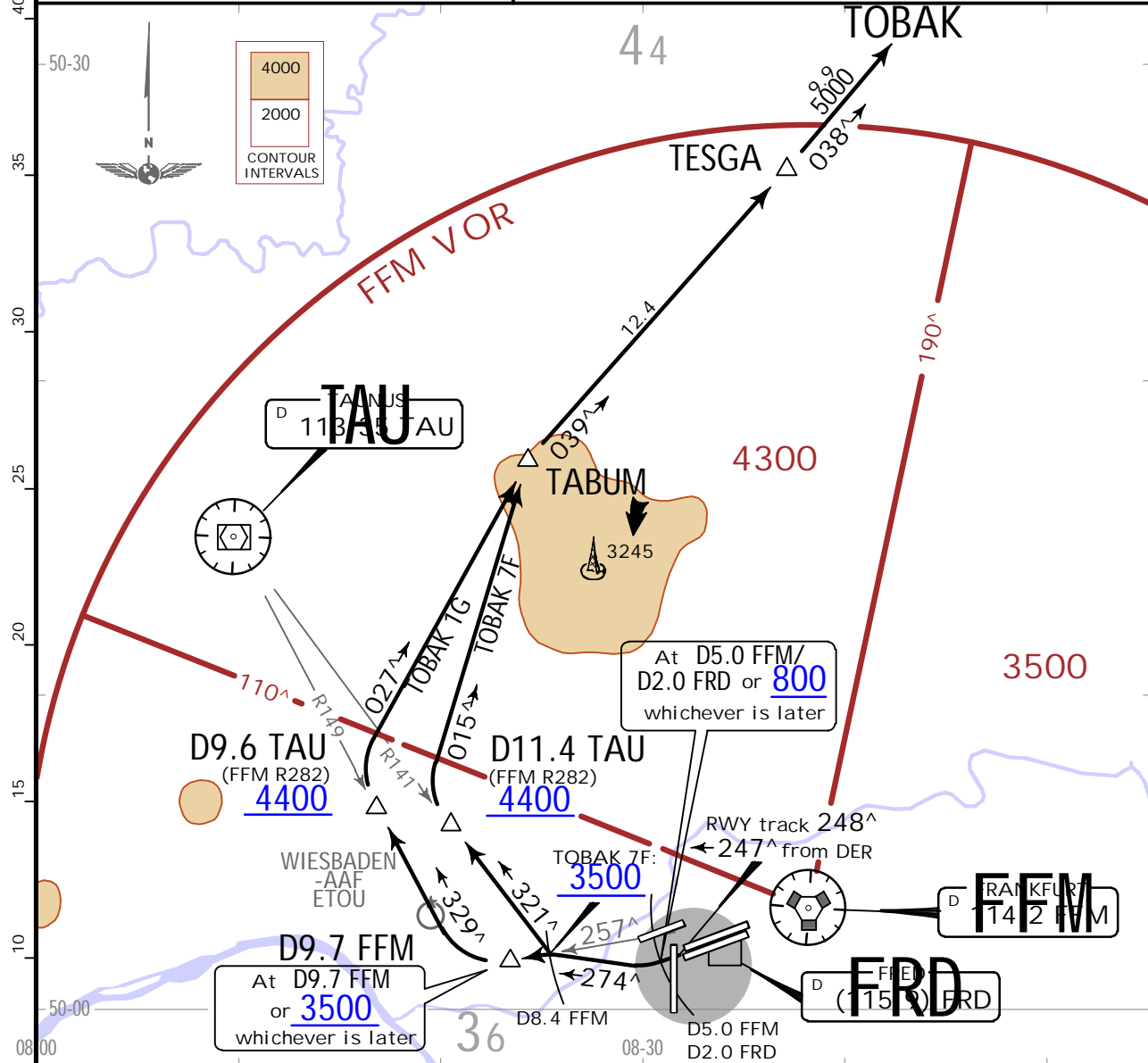
.SID.

\*LANGEN Radar  
120.155

Apt Elev  
364

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, TOBAK 1G**  
**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**



**TOBAK 7F**

This SID requires a minimum climb gradient of 729 per NM (12%) until D8.4 FFM (4.5 NM after DER) due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
729 per NM	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, 274° track (RWY 25L: 278° track) to D8.4 FFM, turn RIGHT, intercept TAU R141 inbound to D11.4 TAU 1, turn RIGHT, 015° track to TABUM, turn RIGHT, 039° track to TESGA, turn LEFT, 038° track to TOBAK.
TOBAK 1G	Climb on runway track to D5.0 FFM/D2.0 FRD or 800, whichever is later, turn RIGHT, 274° track (RWY 25L: 278° track) to D9.7 FFM or 3500, whichever is later, turn RIGHT, intercept TAU R149 inbound to D9.6 TAU, turn RIGHT, 027° track to TABUM, turn RIGHT, 039° track to TESGA, turn LEFT, 038° track to TOBAK.

1 After D11.4 TAU RNAV 5 equipment necessary.  
2 After D9.6 TAU BRNAV equipment necessary.

EDDF/FRA  
FRANKFURT/MAIN

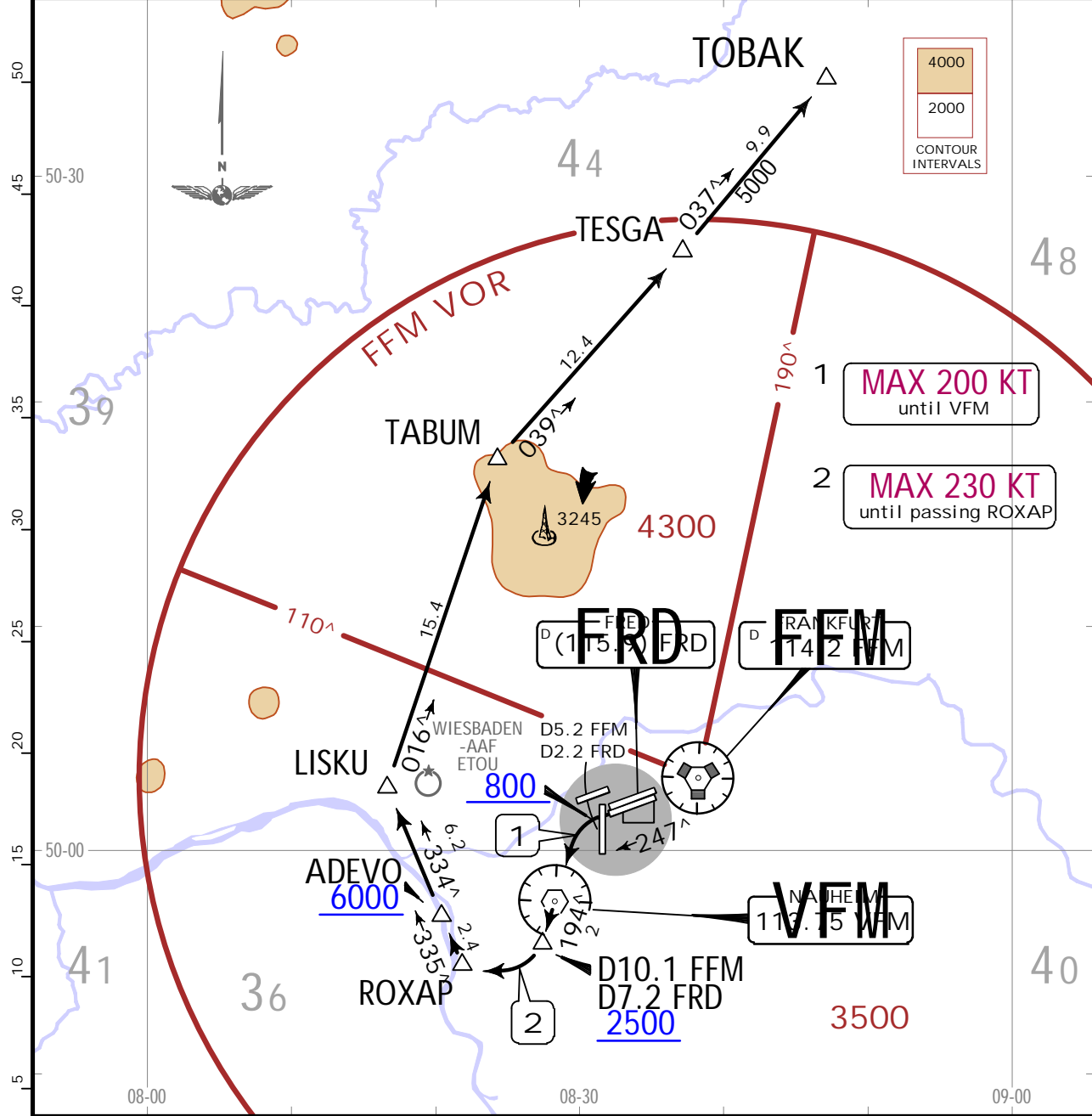
20 AUG 21 (10-3L7)

JEPPESSEN FRANKFURT/MAIN, GERMANY  
.SID.

\*LANGEN Radar  
120.155  
Apt Elev  
364

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 5H**  
**RWY 25L 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%) 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 **FL70**

**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.

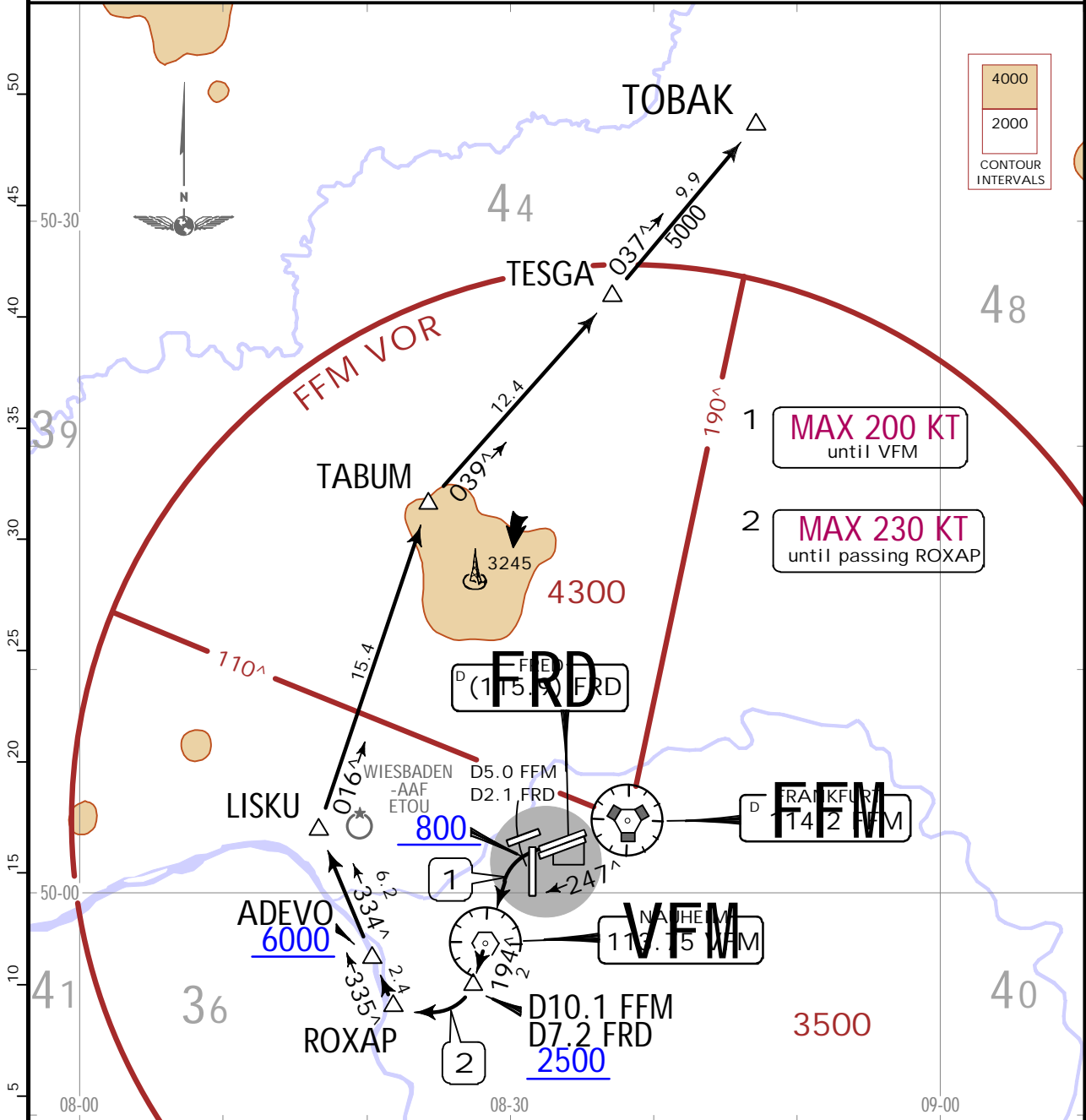
**EDDF/FRA**  
FRANKFURT/MAIN

**JEPPESSEN** FRANKFURT/MAIN, GERMANY  
20 AUG 21 (10-3L8)

**FRANKFURT/MAIN, GERMANY**  
.SID.

*LANGEN Radar 120.155	Apt Elev 364	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**  
**RWY 25C 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%) 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 **FL70**

**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.

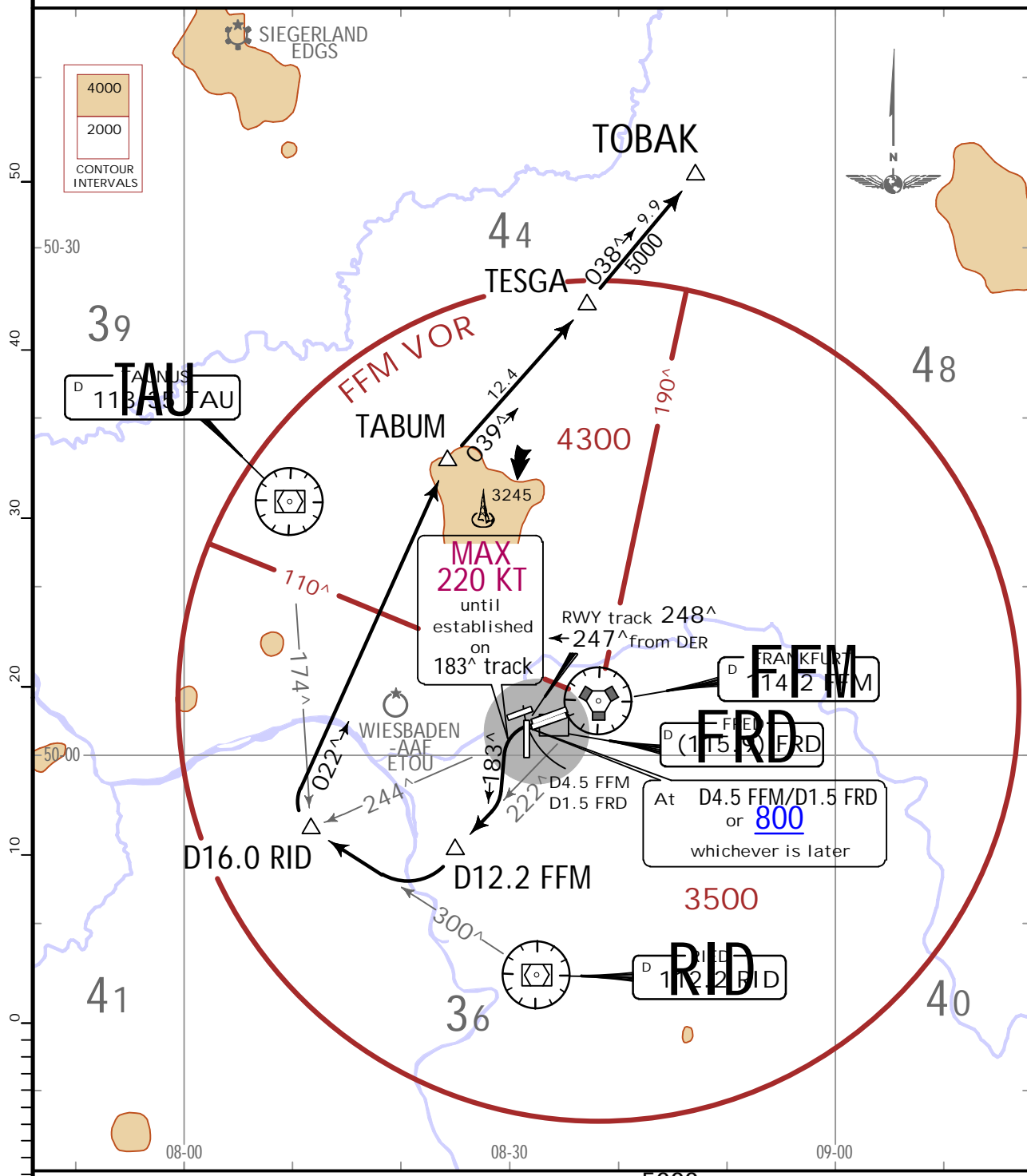
EDDF/FRA  
FRANKFURT/MAIN

JEPPESEN FRANKFURT/MAIN, GERMANY  
30 OCT 20 (10-3M) .Eff.5.Nov.

.SID.

*LANGEN Radar 120.155	Apt Elev 364	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 2N**  
**RWYS 25L/C DEPARTURE**  
 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 D4.5 FFM/D1.5 FRD or 800, whichever is later, turn LEFT, 183° track, intercept FFM R222 to D12.2 FFM, turn RIGHT, intercept RID R300 to D16.0 RID 1, turn RIGHT, 022° track to TABUM, turn RIGHT, 039° track to TESGA, turn LEFT, 038° track to TOBAK.

1 After D16.0 RID BRNAV equipment necessary.



EDDF/FRA  
FRANKFURT/MAIN

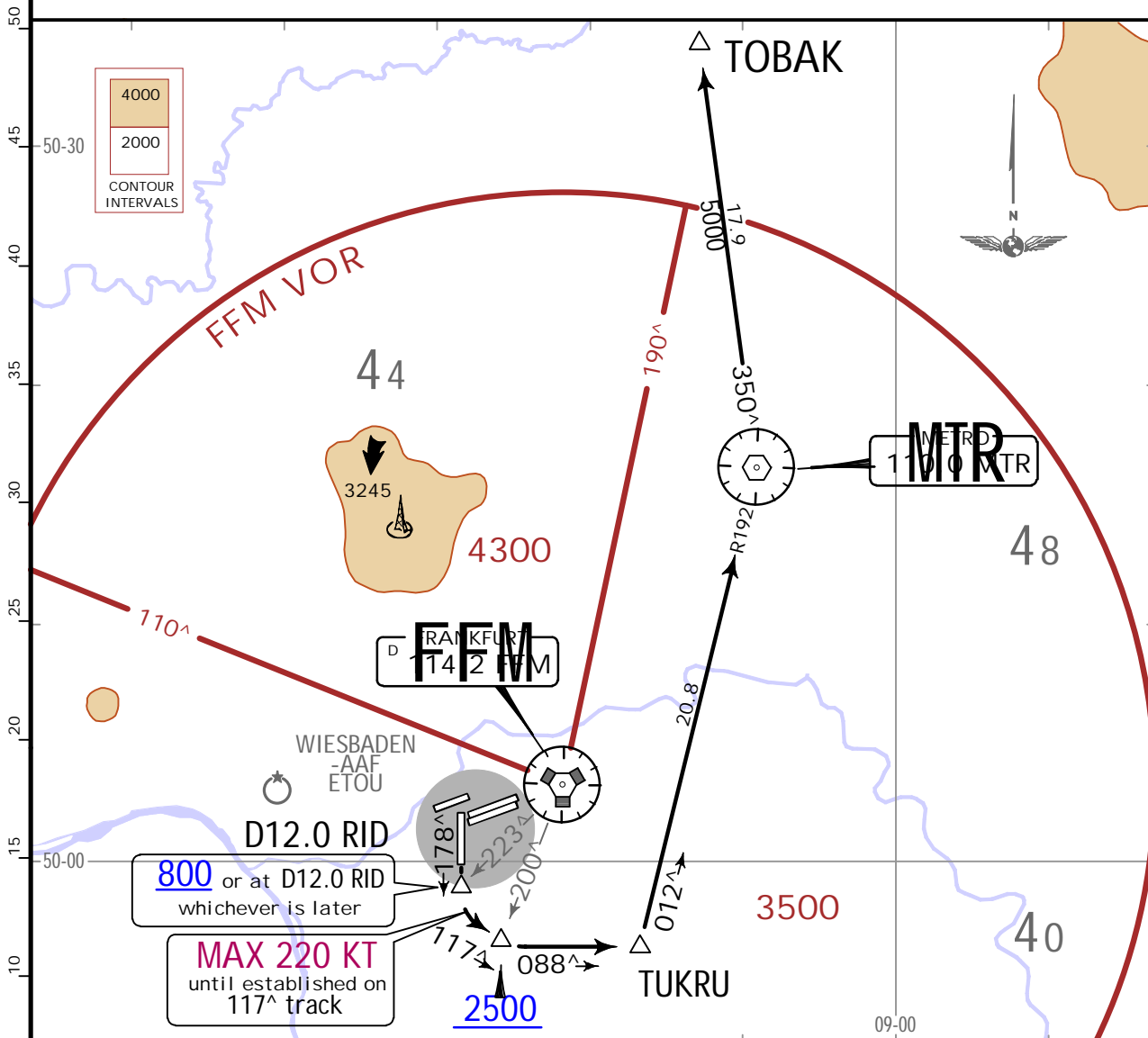
**JEPPESSEN** FRANKFURT/MAIN, GERMANY  
30 OCT 20 (10-3N) .Eff.5.Nov.

.SID.

\*LANGEN  
Radar  
120.155  
Apt Elev  
364

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. EXPECT close-in obstacles. 4. Wind shears and increased turbulences must be expected when winds strong. 5. For operational RWY use concept refer to 10-1P pages. 6. Do not turn before DER.

**TOBAK 3R**  
**RWY 18 DEPARTURE**  
**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**



This SID requires a minimum climb gradient of 565 per NM (9.3%) until passing 2500 due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
565 per NM	706	942	1413	1884	2355	2825

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

Initial climb clearance **4000**

**ROUTING**

Climb on runway track to 800 or D12.0 RID, whichever is later, turn LEFT, 117° track, when passing FFM R200 1 turn LEFT, 088° track to TUKRU, turn LEFT, intercept MTR R192 inbound to MTR, turn LEFT, MTR R350 to TOBAK.

1 After FFM R200 BRNAV equipment necessary.

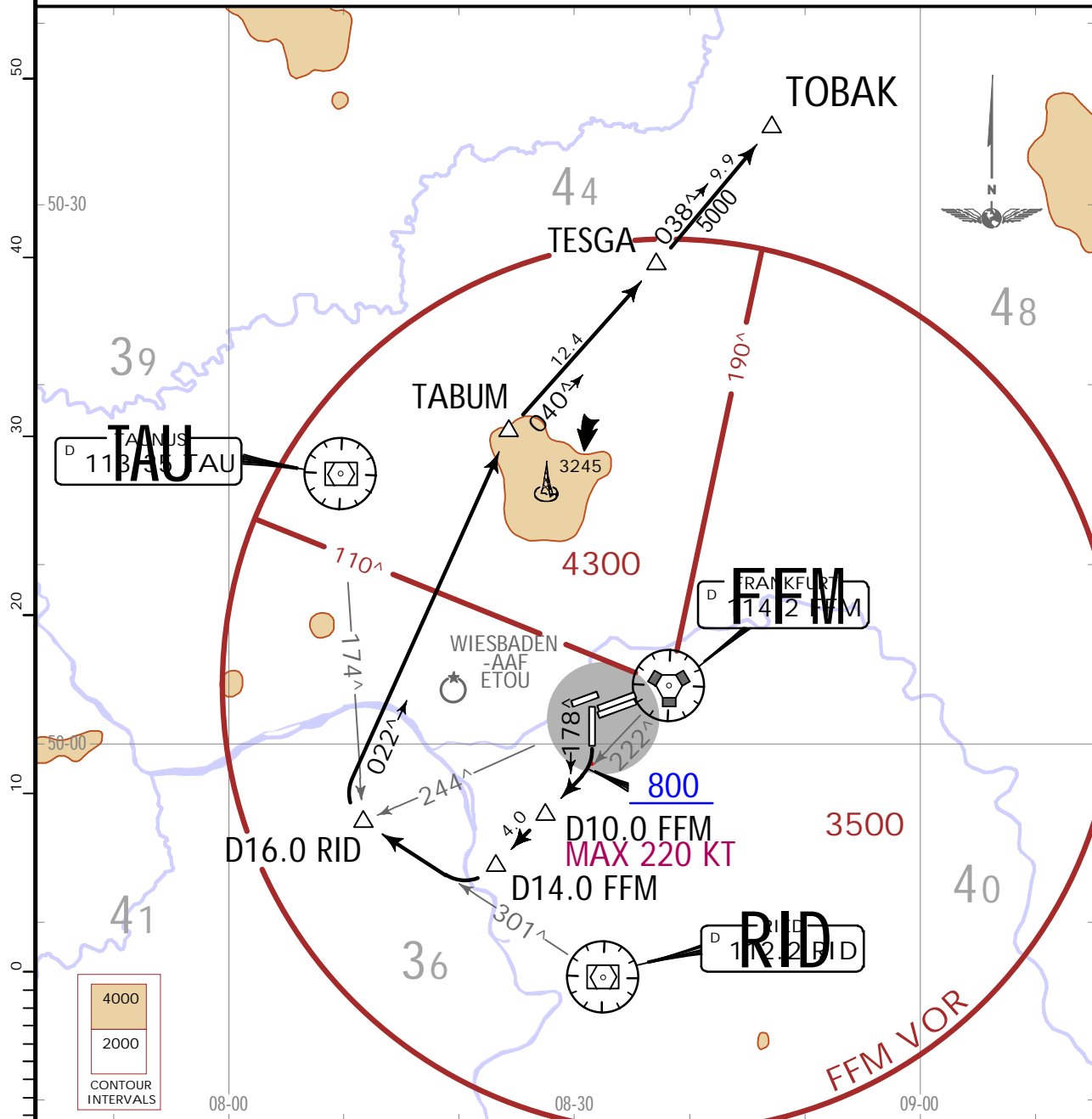
EDDF/FRA  
FRANKFURT/MAIN

JEPPESEN FRANKFURT/MAIN, GERMANY  
29 OCT 21 (10-3N1) .Eff.4.Nov.

.SID.

<p>*LANGEN Radar 120.155</p>	<p>Apt Elev 364</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. Wind shears and increased turbulences must be expected when winds strong. 5. For operational RWY use concept refer to 10-1P pages. 6. Do not turn before DER.</p>
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**TOBAK 9S 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**

Climb on runway track to 800, turn RIGHT, intercept FFM R222 to D14.0 FFM, turn RIGHT, intercept RID R301 to D16.0 RID 1, turn RIGHT, 022^ track to TABUM, turn RIGHT, 040^ track to TESGA, turn LEFT, 038^ track to TOBAK.

1 After D16.0 RID BRNAV equipment necessary.

**EDDF/FRA**  
FRANKFURT/MAIN

**JEPPESSEN** FRANKFURT/MAIN, GERMANY  
29 OCT 21 (10-3N2) .Eff.4.Nov. .SID.

*LANGEN Radar 136.130	Apt Elev 364	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. Wind shears and increased turbulences must be expected when winds strong. 5. For operational RWY use concept refer to 10-1P pages. 6. Do not turn before DER.
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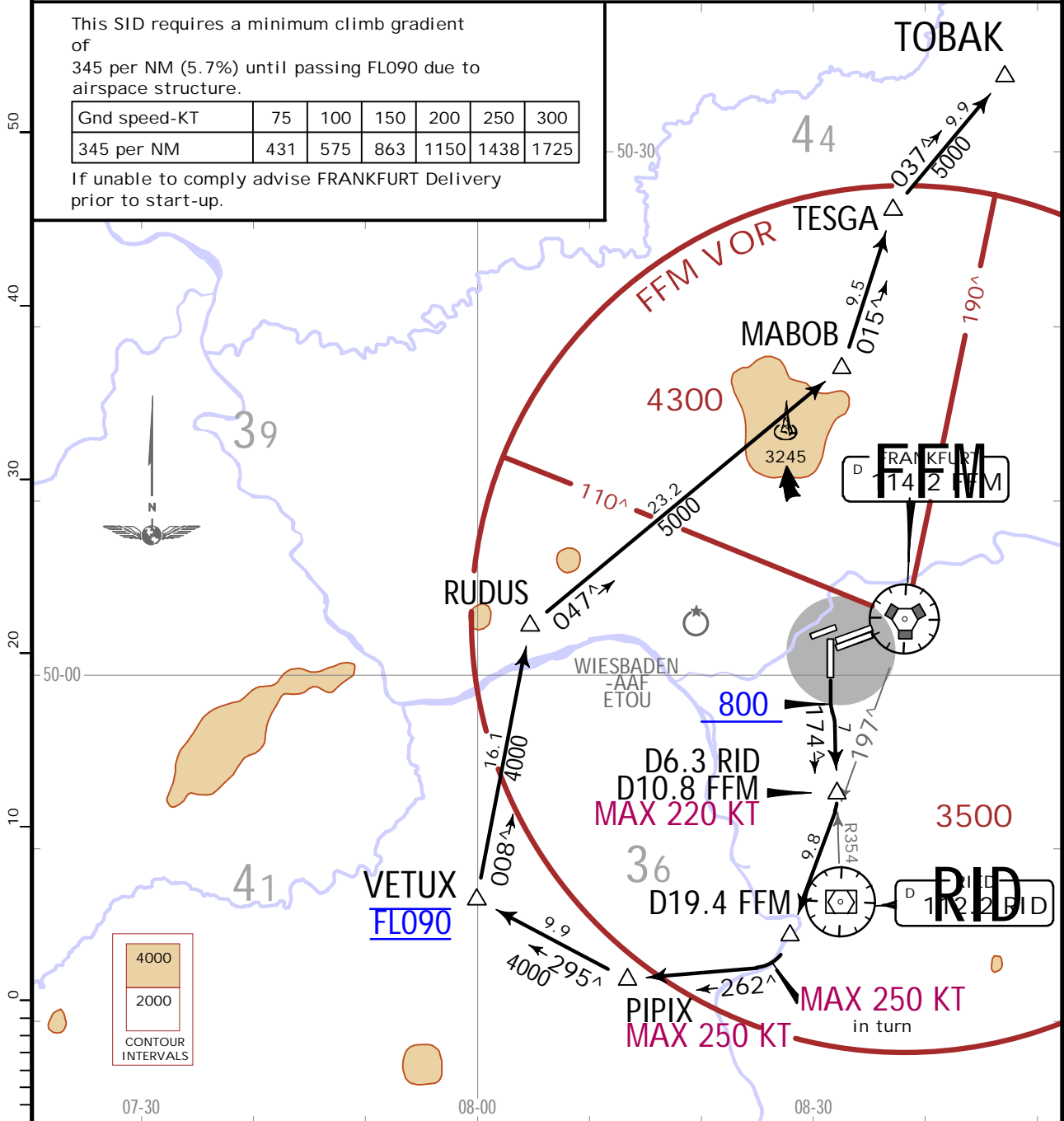
**TOBAK 7T DEPARTURE (RWY 18)**

NOT FOR FLIGHTS CONTINUING VIA AIRWAY Z-10  
**SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC NOT APPLICABLE WITHIN AIRSPACE C**

This SID requires a minimum climb gradient of 345 per NM (5.7%) until passing FL090 due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
345 per NM	431	575	863	1150	1438	1725

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



Initial climb clearance 4000  
**ROUTING**

Climb on runway track to 800, intercept RID R354 inbound to D6.3 RID (D10.8 FFM), turn RIGHT, intercept FFM R197 to D19.4 FFM 1, turn RIGHT, 262° track to PIPIX, turn RIGHT, 295° track to VETUX, turn RIGHT, 008° track to RUDUS, turn RIGHT, 047° track to MABOB, turn LEFT, 015° track to TESGA, turn RIGHT, 037° track to TOBAK.

1 After D19.4 FFM RNAV 5 equipment necessary.



EDDF/FRA  
FRANKFURT/MAIN

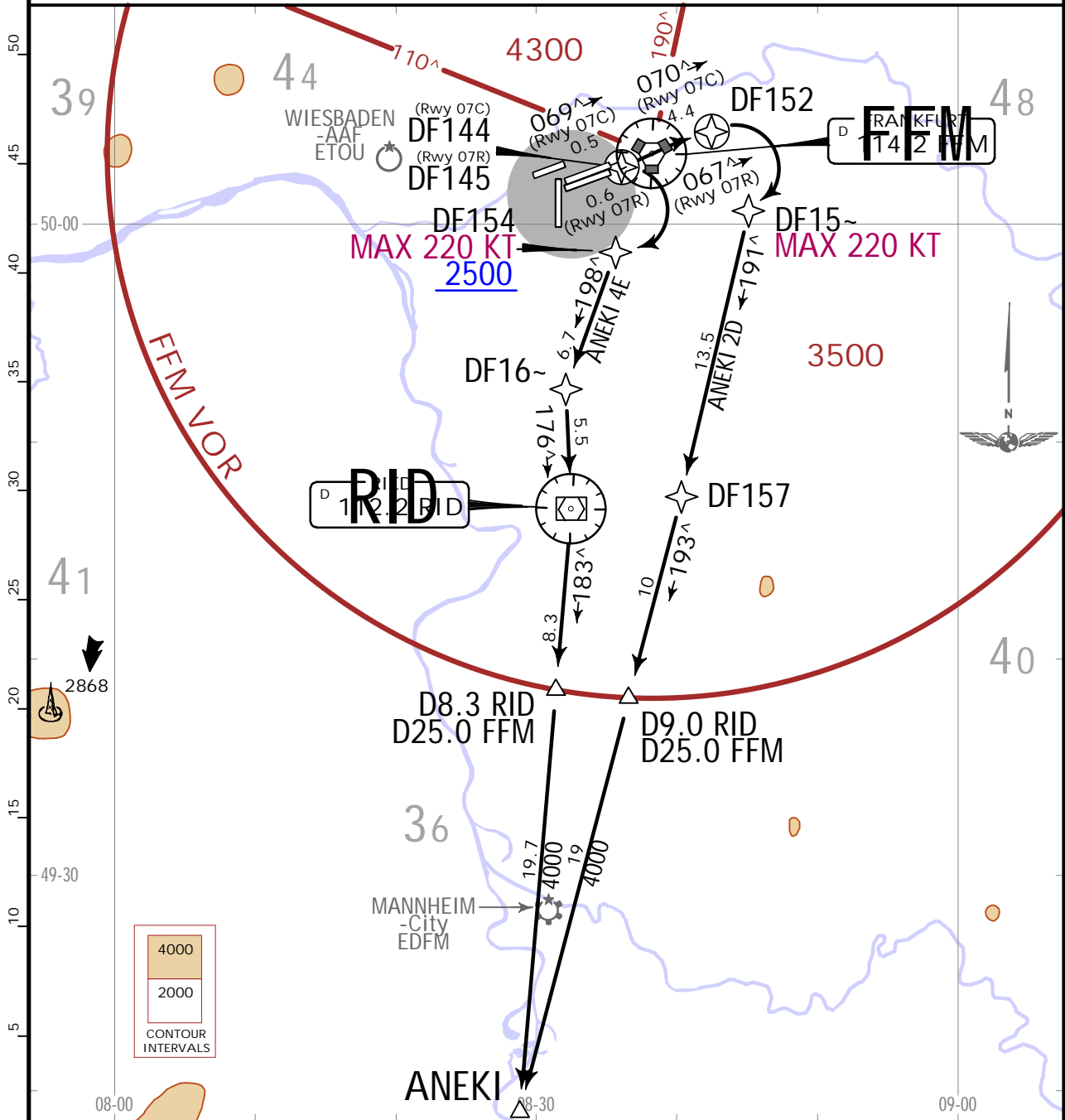
JEPPESSEN FRANKFURT/MAIN, GERMANY  
29 OCT 21 (10-3N4) .Eff.4.Nov.

.RNAV.SID.(OVERLAY).

*LANGEN Radar 136.130	Apt Elev 364	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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**ANEKI 2D [ANEK2D], ANEKI 4E [ANEK4E]  
RNAV DEPARTURES (OVERLAY 10-3C9)  
(RWYS 07C/R)**

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



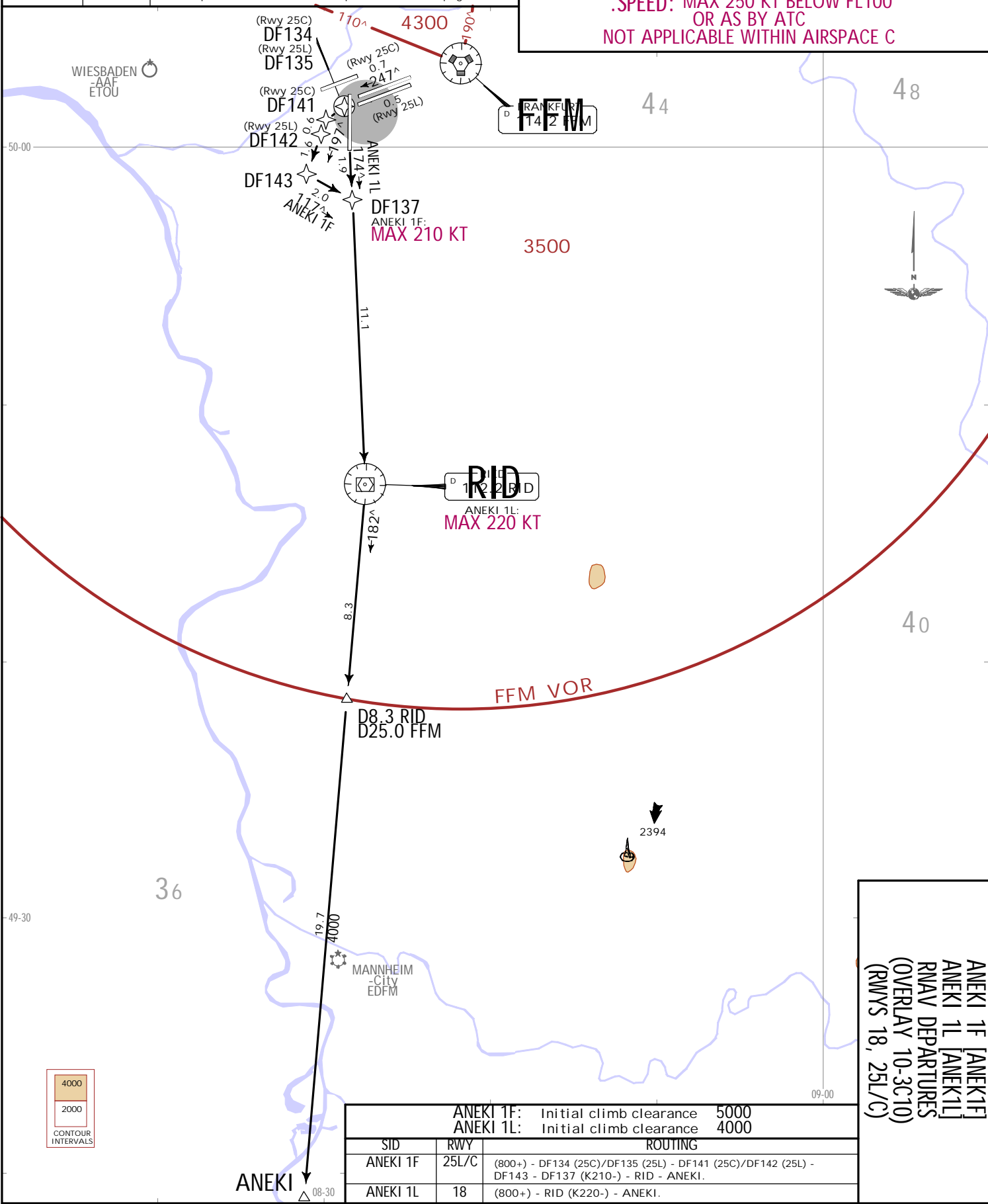
<b>ANEKI 4E</b>		<table border="1"> <tr> <td>Gnd speed-KT</td> <td>75</td> <td>100</td> <td>150</td> <td>200</td> <td>250</td> <td>300</td> </tr> <tr> <td>330 per NM</td> <td>413</td> <td>550</td> <td>825</td> <td>1100</td> <td>1375</td> <td>1650</td> </tr> </table>						Gnd speed-KT	75	100	150	200	250	300	330 per NM	413	550	825	1100	1375	1650
Gnd speed-KT	75	100	150	200	250	300															
330 per NM	413	550	825	1100	1375	1650															
This SID requires a minimum climb gradient of 330 per NM (5.4%) until passing 2500 due to airspace structure.		If unable to comply advise FRANKFURT Delivery prior to start-up.																			
Initial climb clearance		4000																			
<b>SID</b>		<b>ROUTING</b>																			
ANEKI 2D		(800+) - DF152 - DF15- (K220-) - DF157 - ANEKI.																			
ANEKI 4E		(800+) - DF144 (07C)/DF145 (07R) - DF154 (K220-; 2500+) - DF16- - RID - ANEKI.																			

CHANGES: RNAV SIDs renumbered. Track update.

EDDF/FRA  
FRANKFURT/MAIN  
29 OCT 21 (O-3N5)  
JEPPesen  
Eff. 4 Nov.

\*LANGEN Radar 136.130  
Apt Elev 364  
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. RWY 18: WARNING: Close-in obstacles. 4. RWY 18: Wind shears and increased turbulences must be expected when winds strong. 5. RWY 18: Do not turn before DER.  
6. For operational RWY use concept refer to 10-1P pages.

**ANEKI 1F [ANEK1F]  
ANEKI 1L [ANEK1L]  
RNAV DEPARTURES (OVERLAY 10-3C10)  
(RWYS 18, 25L/C)  
.SPEED: MAX 250 KT BELOW FL100  
OR AS BY ATC  
NOT APPLICABLE WITHIN AIRSPACE C**



**ANEKI 1F [ANEK1F]  
ANEKI 1L [ANEK1L]  
RNAV DEPARTURES  
(OVERLAY 10-3C10)  
(RWYS 18, 25L/C)**

		ANEKI 1F: Initial climb clearance	5000
		ANEKI 1L: Initial climb clearance	4000
SID	RWY	ROUTING	
ANEKI 1F	25L/C	(800+) - DF134 (25C)/DF135 (25L) - DF141 (25C)/DF142 (25L) - DF143 - DF137 (K210-) - RID - ANEKI.	
ANEKI 1L	18	(800+) - RID (K220-) - ANEKI.	

FRANKFURT/MAIN, GERMANY  
RNAV SID (OVERLAY)

JEPPesen, 2019, 2021. ALL RIGHTS RESERVED.



EDDF/FRA  
FRANKFURT/MAIN

JEPPESEN  
29 OCT 21 (10-3N6)

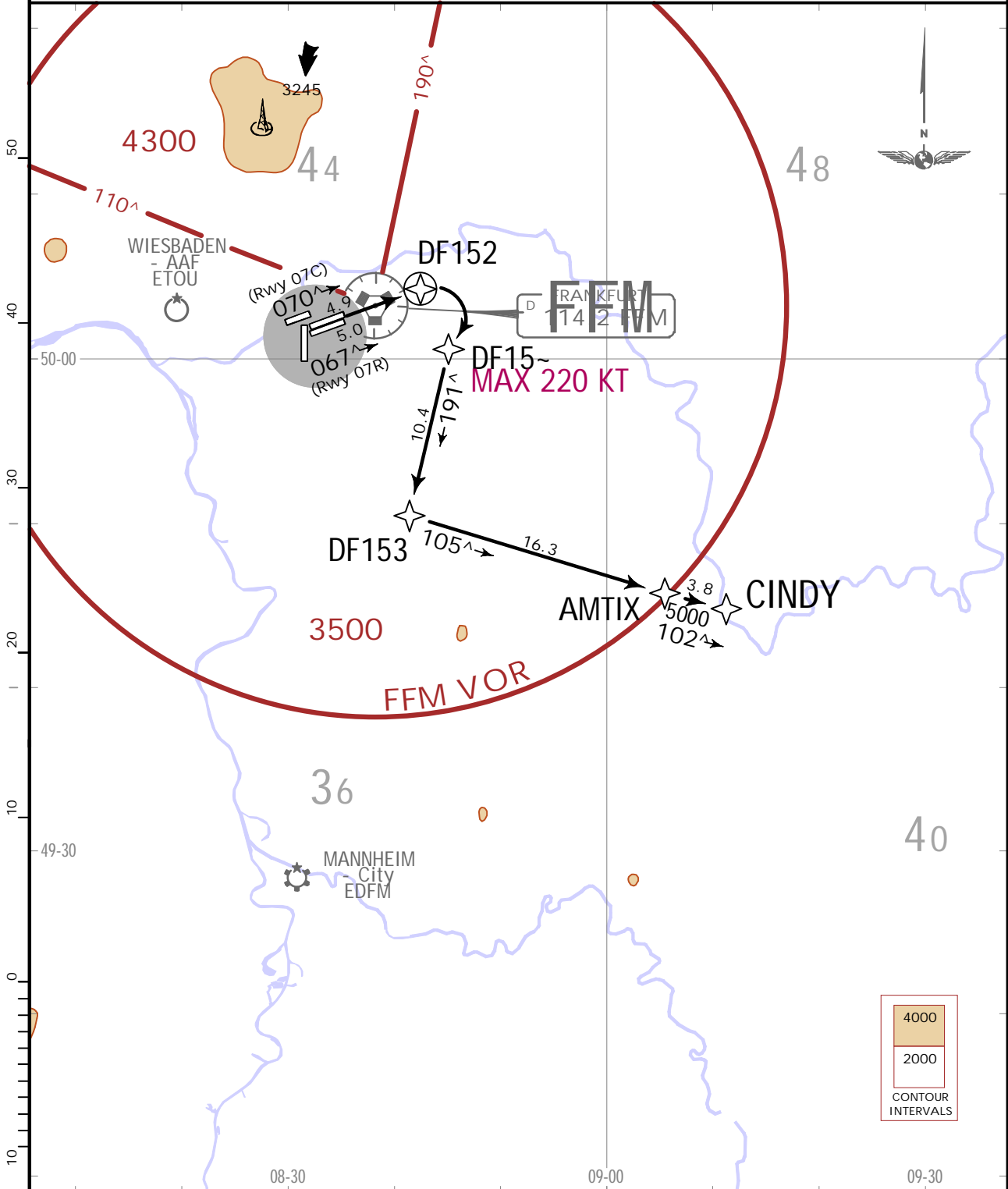
FRANKFURT/MAIN, GERMANY  
.Eff. 4. Nov. .RNAV.SID.(OVERLAY).

\*LANGEN  
Radar  
136.130

Apt Elev  
364

- 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.

**CINDY 1D [CIND1D]**  
**RNAV DEPARTURE (OVERLAY 10-3D)**  
**(RWYS 07C/R)**  
**.SPEED: MAX 250 KT BELOW FL100**  
**OR AS BY ATC**  
**NOT APPLICABLE WITHIN AIRSPACE C**



Initial climb clearance 4000

ROUTING

(800+) - DF152 - DF153 - AMTIX - CINDY.

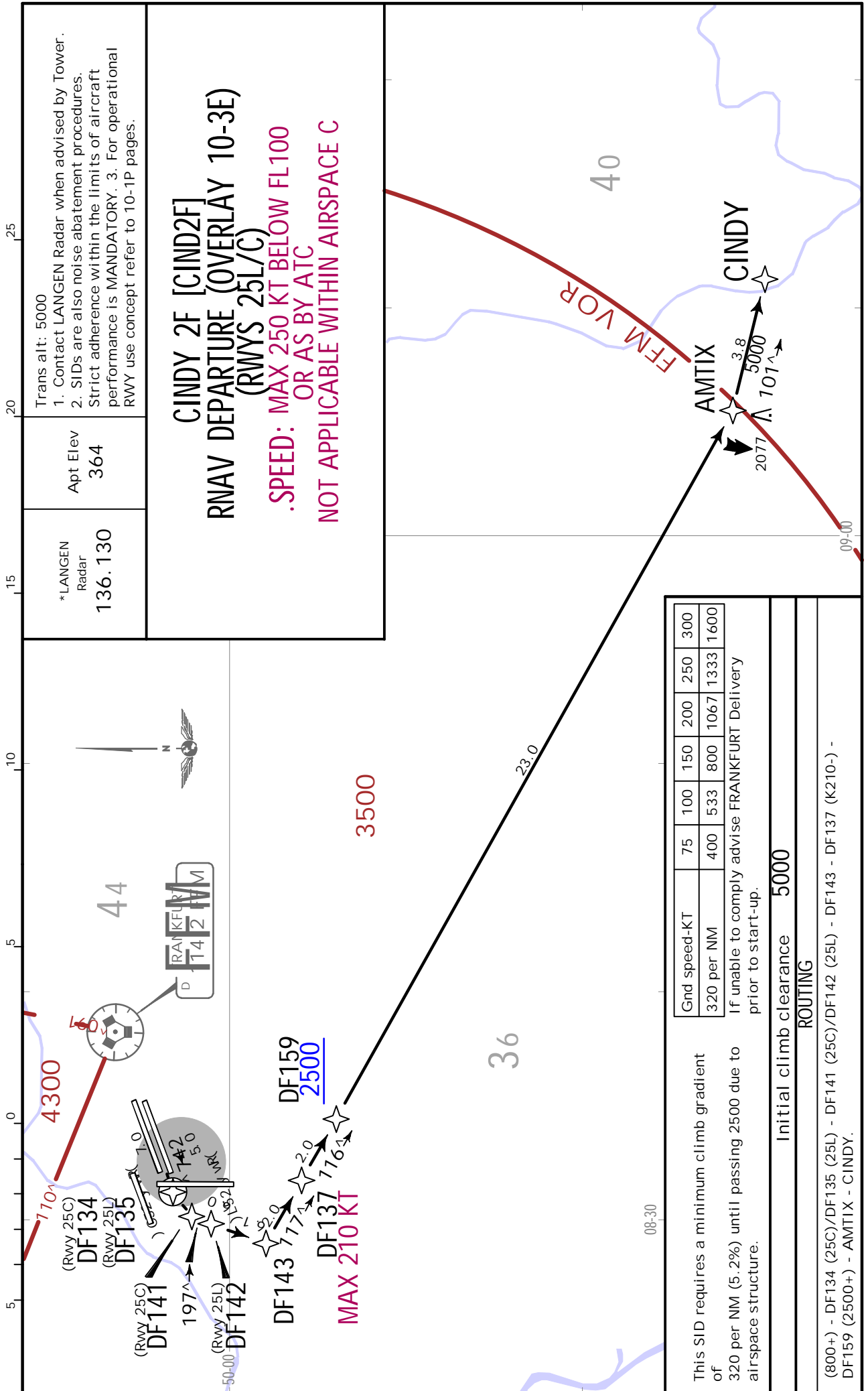
# EDDF/FRA

## FRANKFURT/MAIN

29 OCT 21 **10-3N7** .Eff. 4. Nov.

# JEPPESEN FRANKFURT/MAIN, GERMANY

## .RNAV.SID.(OVERLAY).



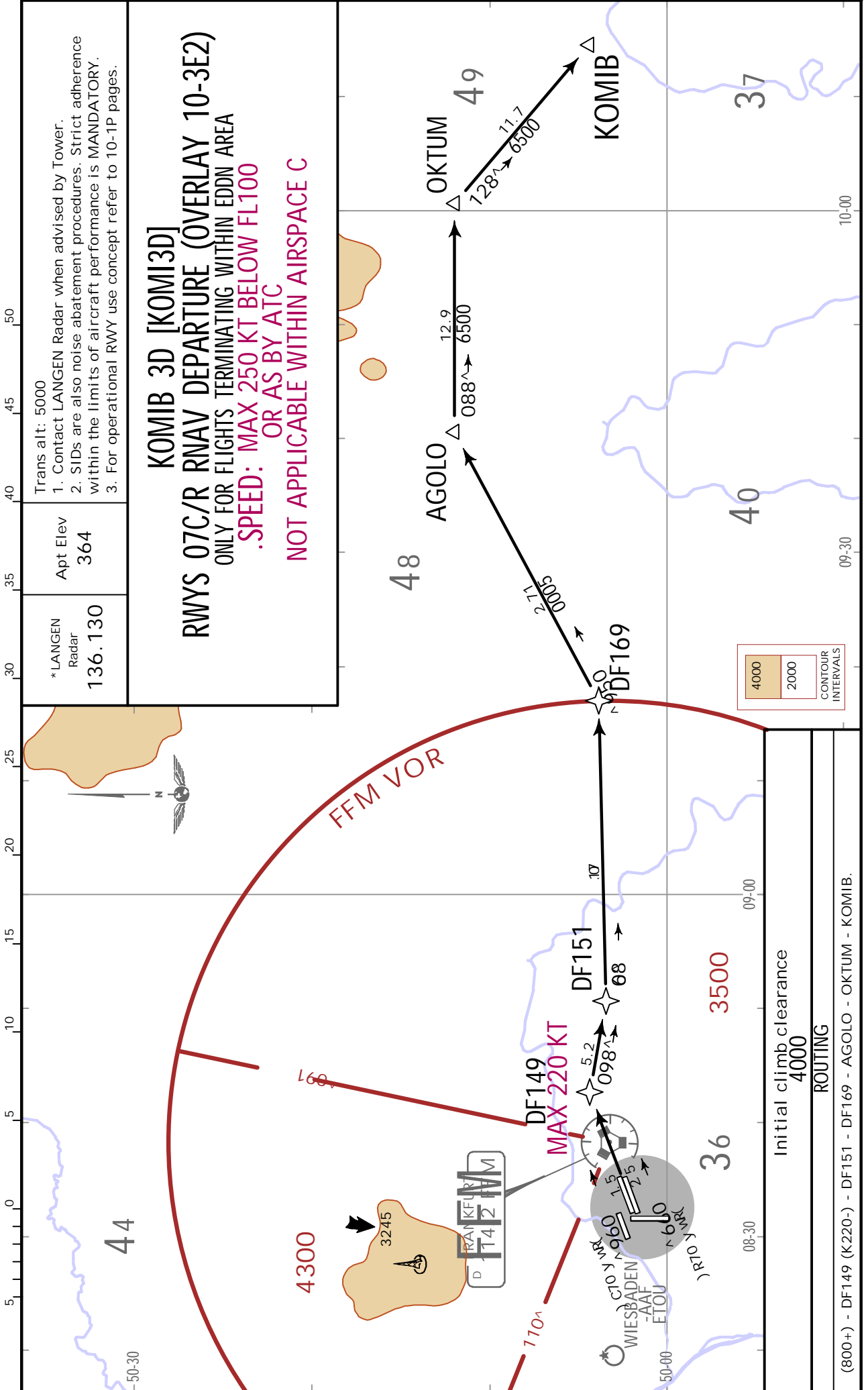


# EDDF/FRA

FRANKFURT/MAIN

7 SEP 18 **10-3N9** .Eff.13.Sep.

FRANKFURT/MAIN, GERMANY  
.RNAV.SID.(OVERLAY).



**FRANKFURT/MAIN, GERMANY**  
**.RNAV.SID.(OVERLAY).**

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 9D [MARU9D]**  
**MARUN 5E [MARU5E]**  
**RWYS 07C/R RNAV DEPARTURES (OVERLAY 10-3E3)**  
**.SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC**  
**NOT APPLICABLE WITHIN AIRSPACE C**

\*LANGEN Radar  
 120.155  
 Apt Elev  
 364

48

44

39

40

41

36

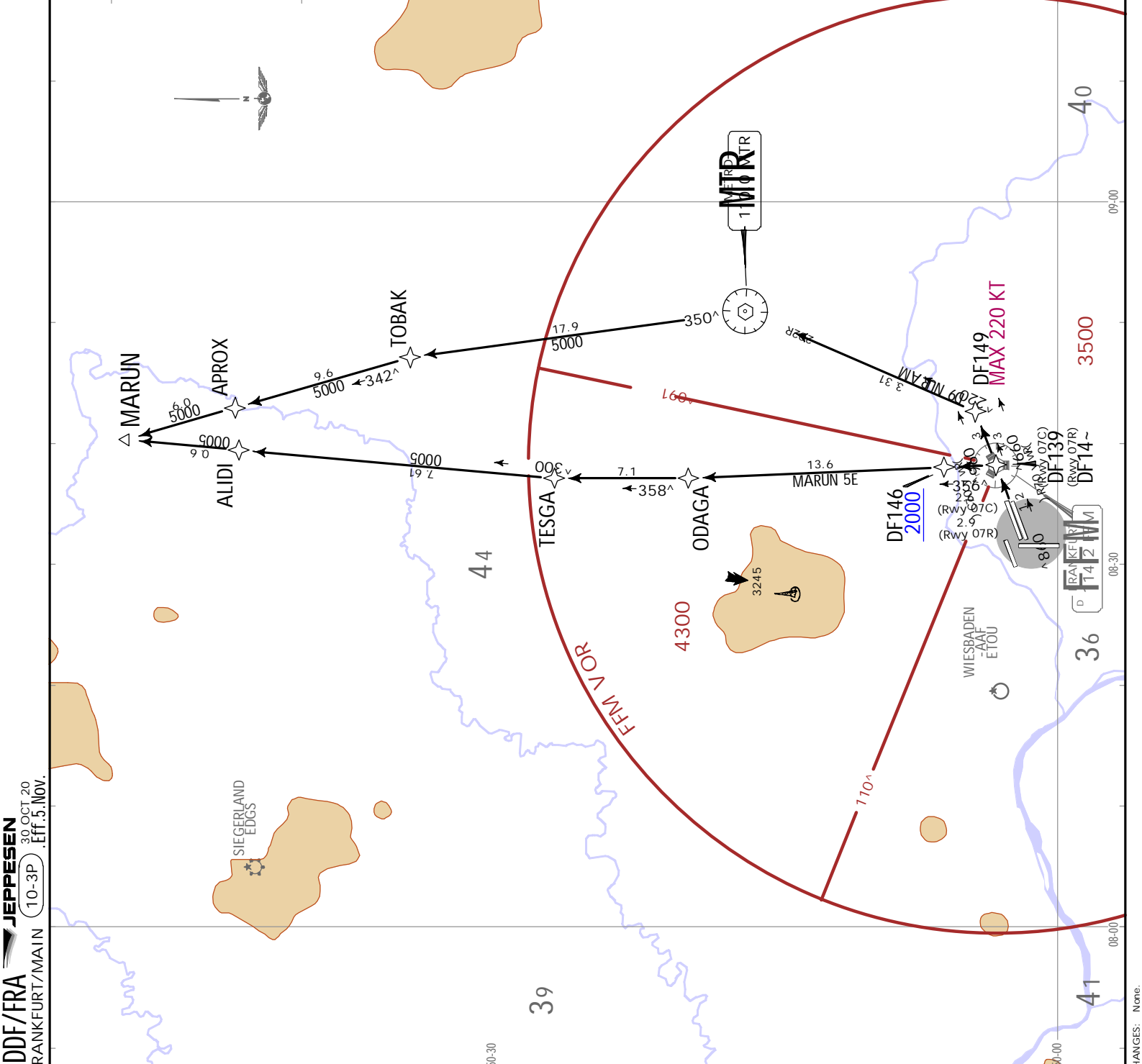
3500

4300

5000

5000

5000



**EDDF/FRA**  
**FRANKFURT/MAIN**  
 10-3P  
 30.OCT.20  
 .Eff.5.Nov.

**JEPPESEN**

CHANGES: None.

JEPPESEN, 2017, 2018. ALL RIGHTS RESERVED.





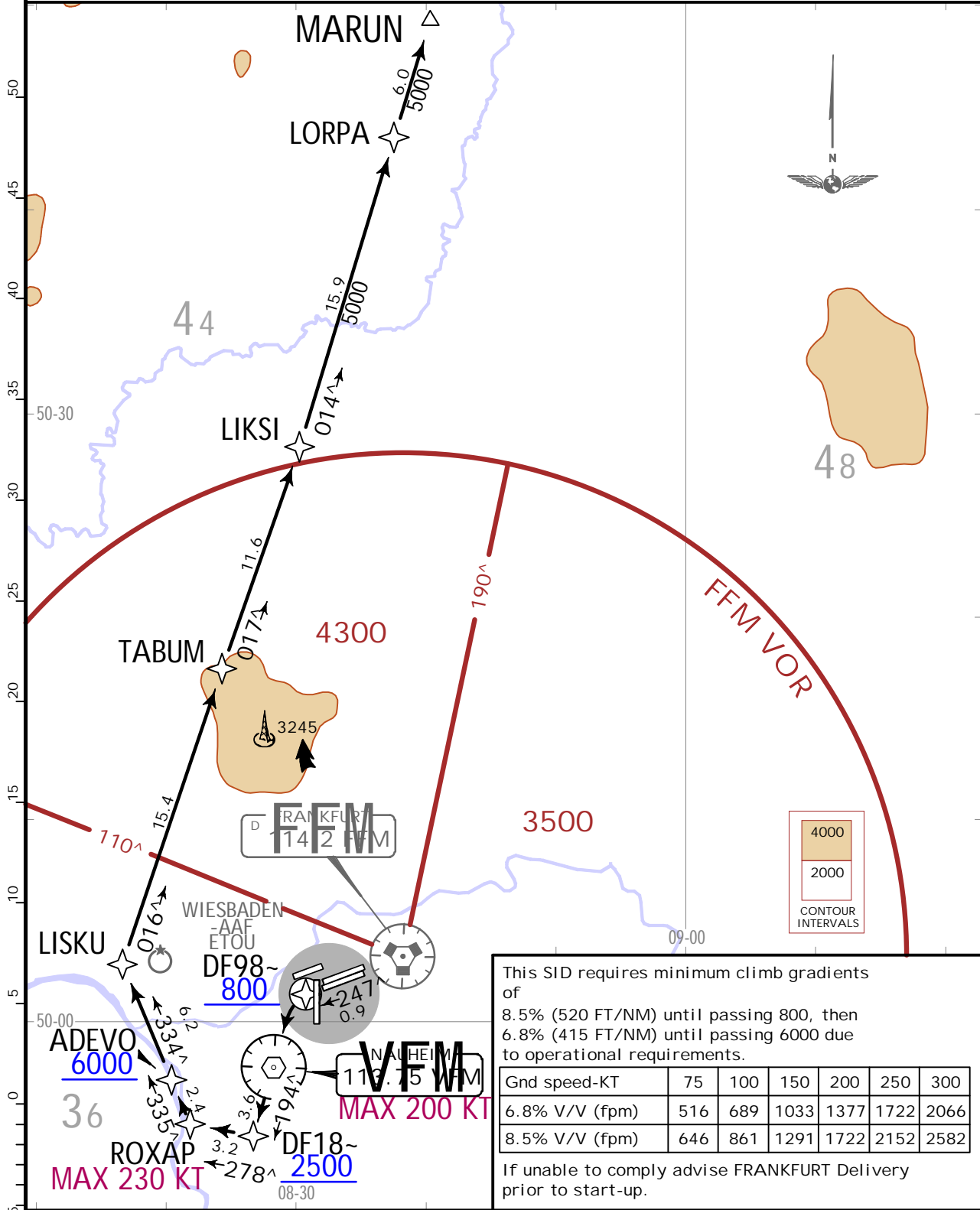
EDDF/FRA  
FRANKFURT/MAIN

JEPPESEN  
21 OCT 22 10-3Q1

FRANKFURT/MAIN, GERMANY  
.RNAV.SID.(OVERLAY).

*LANGEN Radar 120.155	Apt Elev 364	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 10-3E5) (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.

Initial climb clearance **FL070**

**ROUTING**

DF98- (800+) - VFM (K200-) - DF18- (2500+) - ROXAP (K230-) - ADEVO (6000+) - LISKU - TABUM - LIKSI - LORPA - MARUN.

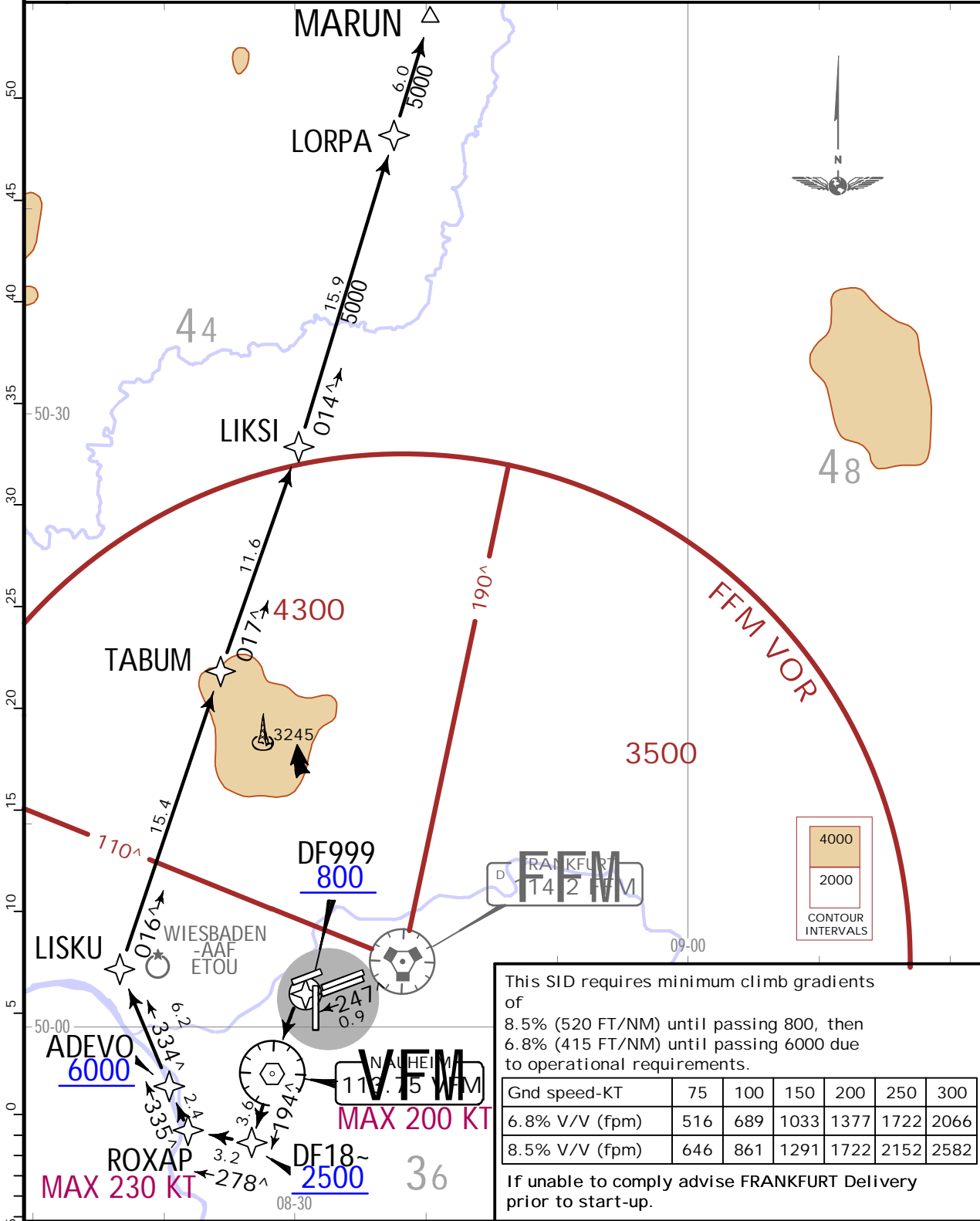
EDDF/FRA  
FRANKFURT/MAIN

JEPPESEN  
21 OCT 22 10-3Q2

FRANKFURT/MAIN, GERMANY  
.RNAV.SID.(OVERLAY).

*LANGEN Radar 120.155	Apt Elev 364	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 7M [MARU7M]**  
**RNAV DEPARTURE (OVERLAY 10-3E6) (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-) - DF18- (2500+) - ROXAP (K230-) - ADEVO (6000+) - LISKU - TABUM - LIKSI - LORPA - MARUN.

EDDF/FRA  
FRANKFURT/MAIN

JEPPESEN  
30 OCT 20 10-3Q3 .Eff.5.Nov.

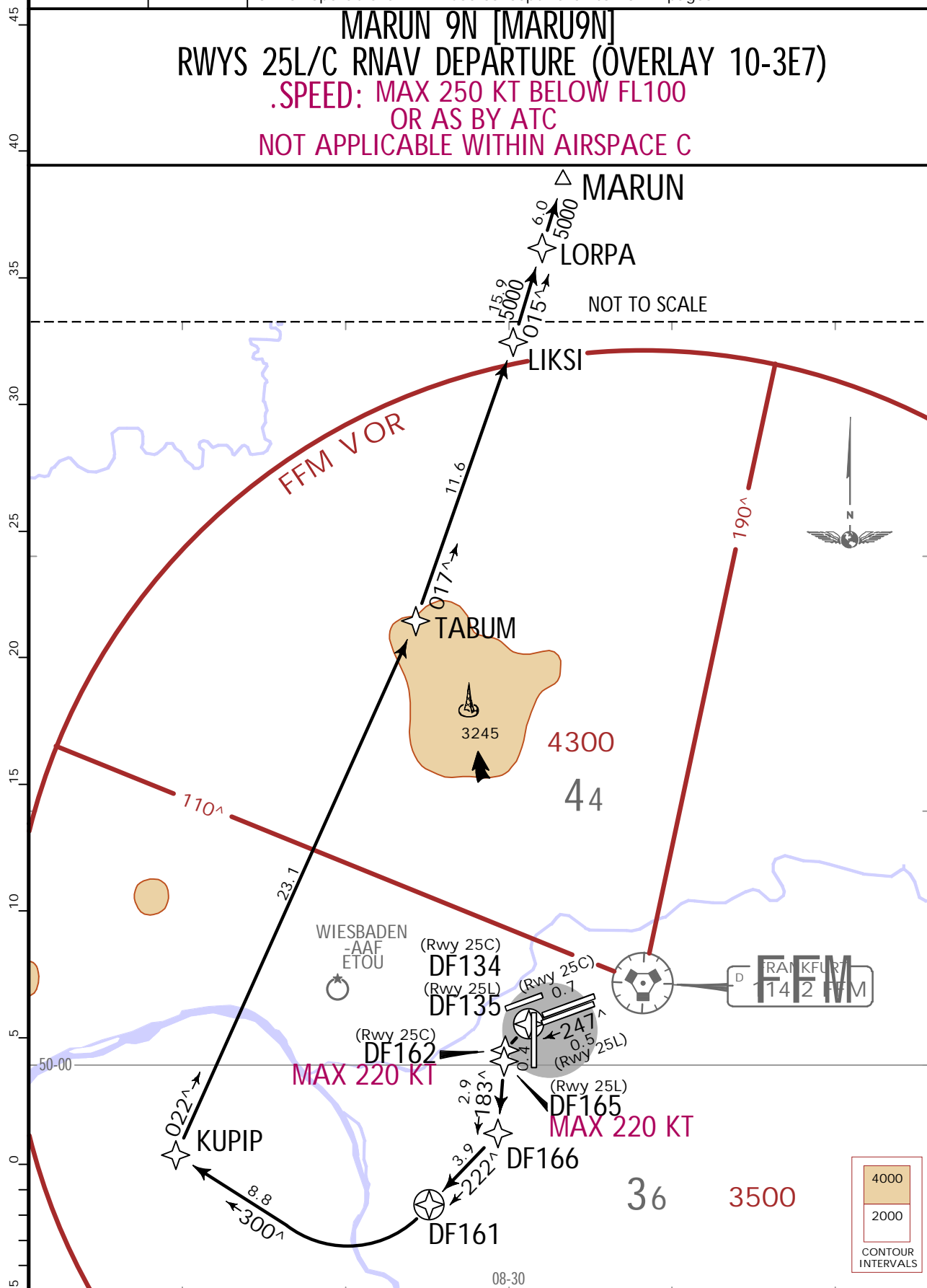
FRANKFURT/MAIN, GERMANY  
.RNAV.SID.(OVERLAY).

\*LANGEN  
Radar  
120.155

Apt Elev  
364

- 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.

**MARUN 9N [MARU9N]**  
**RWYS 25L/C RNAV DEPARTURE (OVERLAY 10-3E7)**  
**.SPEED: MAX 250 KT BELOW FL100**  
**OR AS BY ATC**  
**NOT APPLICABLE WITHIN AIRSPACE C**



Initial climb clearance 5000

ROUTING

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

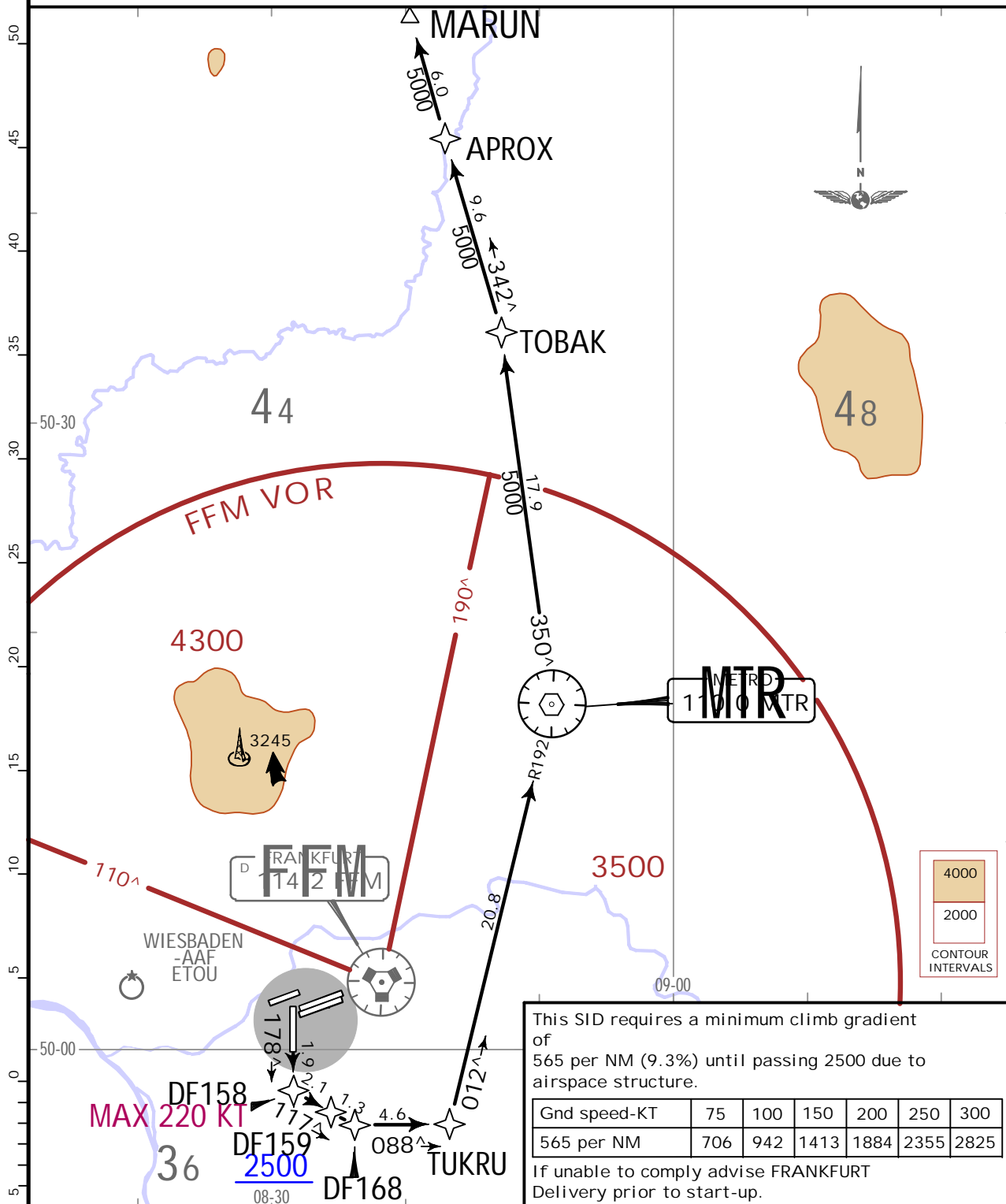
**EDDF/FRA**  
FRANKFURT/MAIN

**JEPESEN** 30 OCT 20 **10-3Q4** .Eff.5.Nov.

**FRANKFURT/MAIN, GERMANY**  
**.RNAV.SID.(OVERLAY).**

<p>*LANGEN Radar 120.155</p>	<p>Apt Elev 364</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. Wind shears and increased turbulences must be expected when winds strong. 5. For operational RWY use concept refer to 10-1P pages. 6. Do not turn before DER.</p>
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**MARUN 3R [MARU3R]**  
**RWY 18 RNAV DEPARTURE (OVERLAY 10-3E8)**  
BY ATC  
**.SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC**  
**NOT APPLICABLE WITHIN AIRSPACE C**



**ROUTING**  
(800+) - DF158 (K220-) - DF159 (2500+) - DF168 - TUKRU - MTR - TOBAK - APROX - MARUN.

EDDF/FRA  
FRANKFURT/MAIN

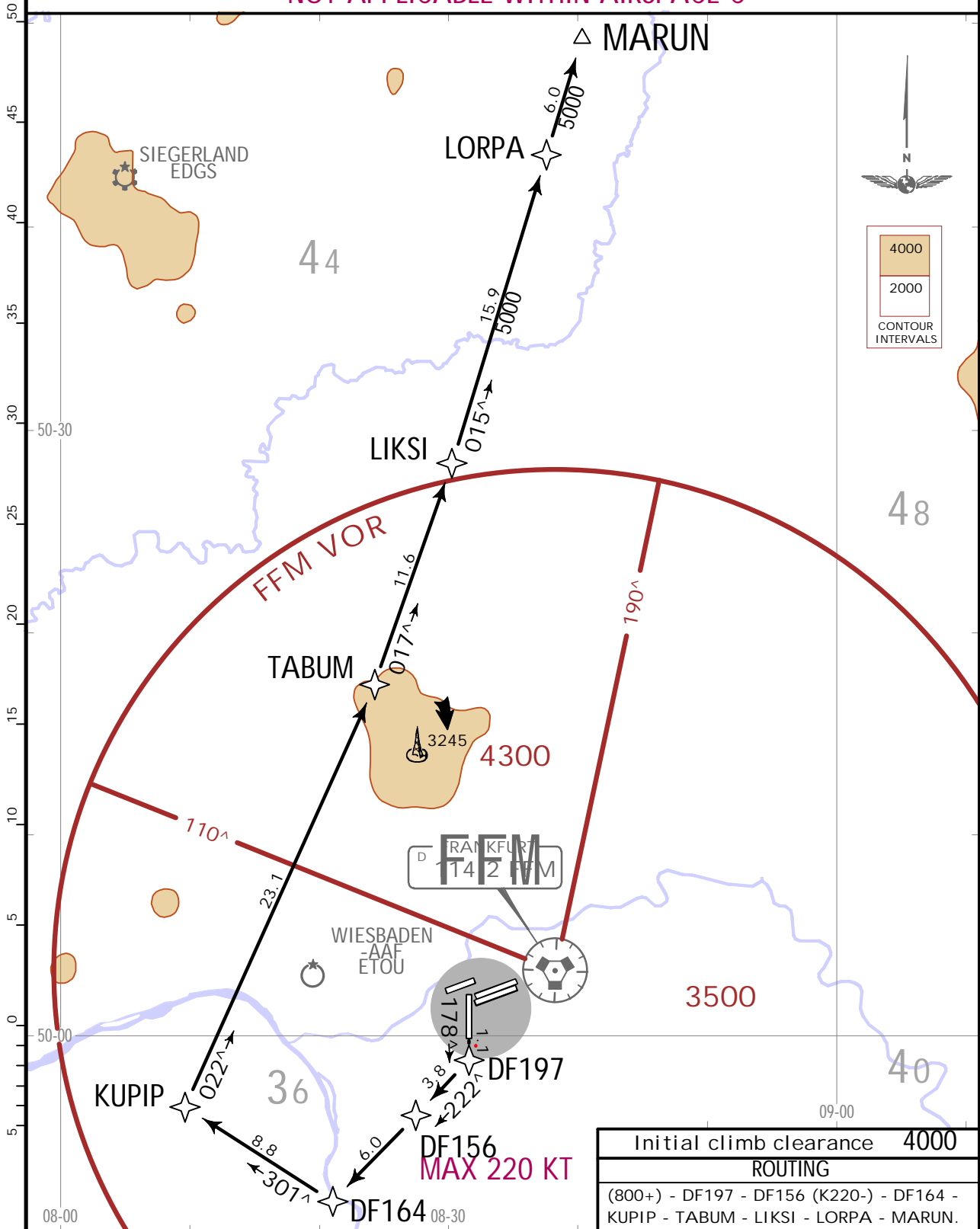
JEPESEN 29 OCT 21 (10-3Q5) .Eff.4.Nov.

FRANKFURT/MAIN, GERMANY  
.RNAV.SID.(OVERLAY).

<p>*LANGEN Radar 120.155</p>	<p>Apt Elev 364</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. Wind shears and increased turbulences must be expected when winds strong. 5. For operational RWY use concept refer to 10-1P pages. 6. Do not turn before DER.</p>
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**MARUN 7S [MARU7S]  
RNAV DEPARTURE (OVERLAY 10-3E9)  
(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**



**EDDF/FRA**  
FRANKFURT/MAIN

**JEPPESSEN** FRANKFURT/MAIN, GERMANY  
29 OCT 21 (10-3Q6) .Eff.4.Nov.

.RNAV.SID.(OVERLAY).  
FRANKFURT/MAIN, GERMANY

*LANGEN Radar 136.130	Apt Elev 364	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. Wind shears and increased turbulences must be expected when winds strong. 5. For operational RWY use concept refer to 10-1P pages. 6. Do not turn before DER.
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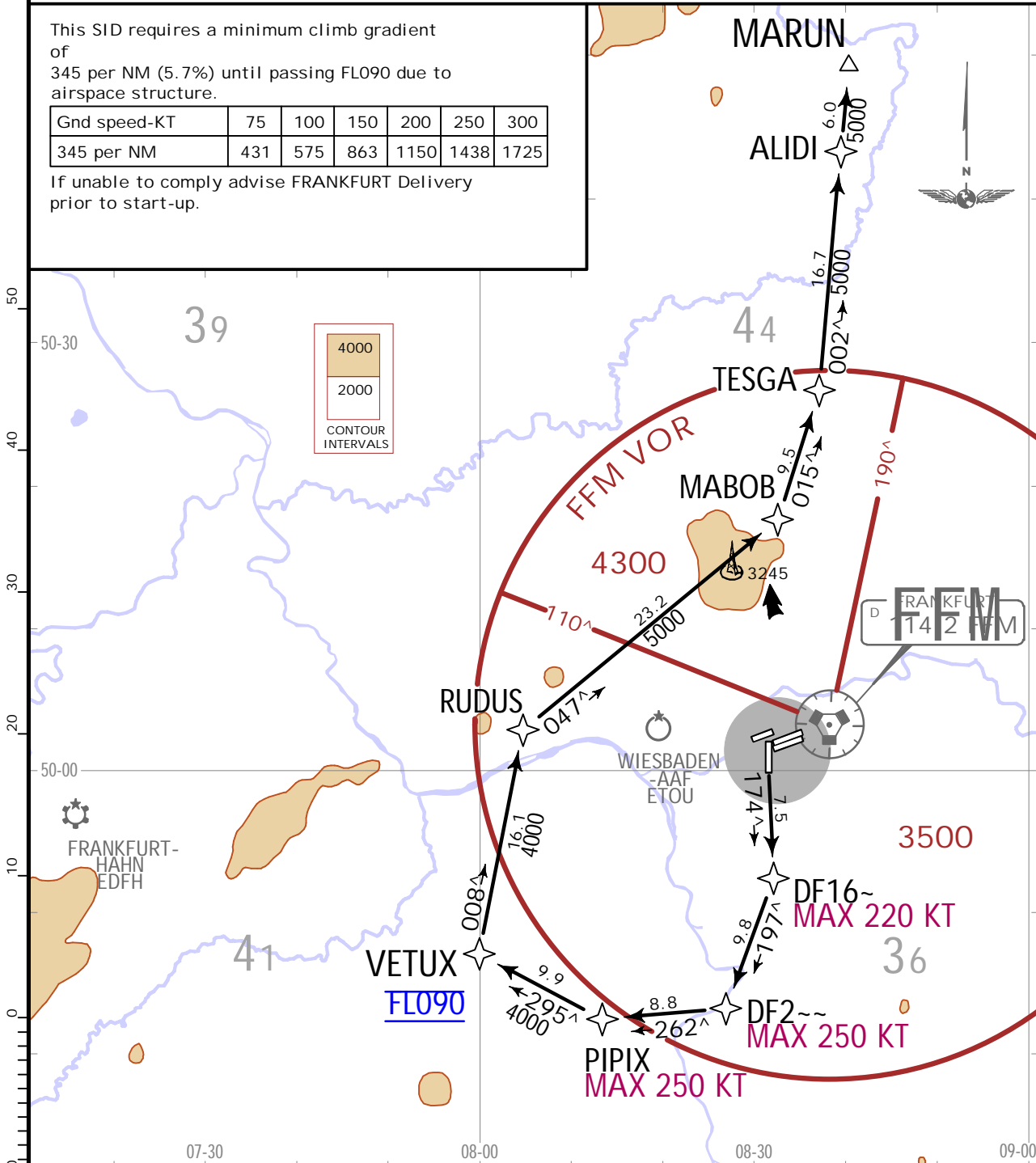
**MARUN 5T [MARU5T]**  
**RNAV DEPARTURE (OVERLAY 10-3F)**  
**(RWY 18)**

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

This SID requires a minimum climb gradient of 345 per NM (5.7%) until passing FL090 due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
345 per NM	431	575	863	1150	1438	1725

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



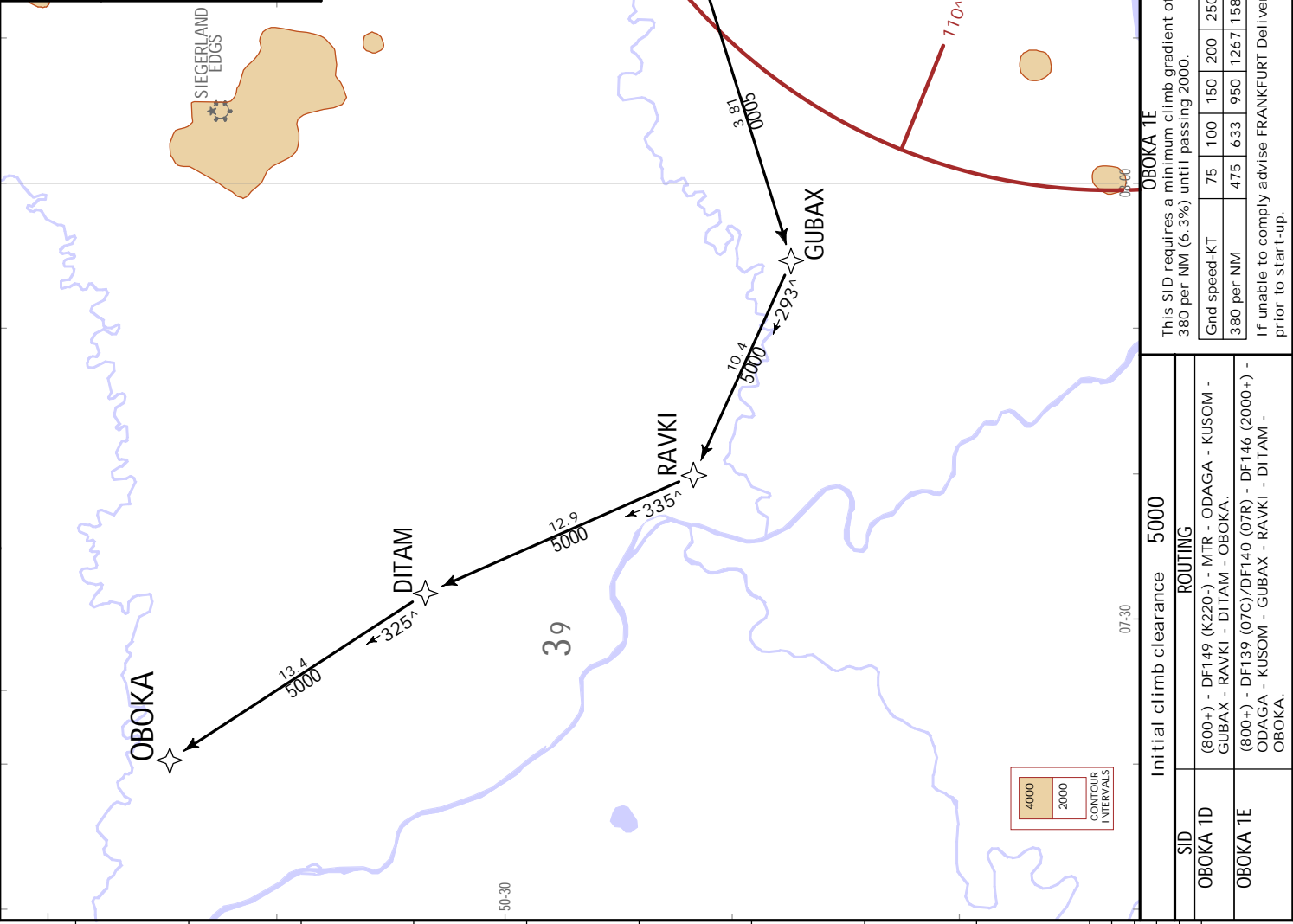
Initial climb clearance	4000
<b>ROUTING</b>	
(800+) - DF16- (K220-) - DF2-- (K250-) - PIPIX (K250-) - VETUX (FL090) - RUDUS - MABOB - TESGA - ALIDI - MARUN.	



**EDDF/FRA** **JEPPesen** 17 MAY 19  
**FRANKFURT/MAIN** (10-3Q7) Eff. 23 May.  
**FRANKFURT/MAIN, GERMANY**  
**.RNAV.SID.(OVERLAY).**

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 1D [OBOK1D]**  
**OBOKA 1E [OBOK1E]**  
**RWYS 07C/R RNAV DEPARTURES (OVERLAY 10-3G1)**  
**FLIGHTS HAVE TO BE ABLE TO CROSS OBOKA AT OR ABOVE FL170 EXCEPT FLIGHTS TO EDIX**  
**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**



**OBOKA 1E**

This SID requires a minimum climb gradient of 380 per NM (6.3%) until passing 2000.  
 If unable to comply advise FRANKFURT Delivery prior to start-up.

Gnd speed-KT	75	100	150	200	250	300
380 per NM	475	633	950	1267	1583	1900

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

**FRANKFURT/MAIN, GERMANY**  
**.RNAV.SID.(OVERLAY).**

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.

\*LANGEN Radar  
 120.155

Apt Elev  
 364

**OBOKA 2G [OBOK2G]**  
**RWYS 25L/C RNAV DEPARTURE (OVERLAY 10-3G2)**  
**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 350 per NM (5.8%) until passing 3600, due to airspace structure.

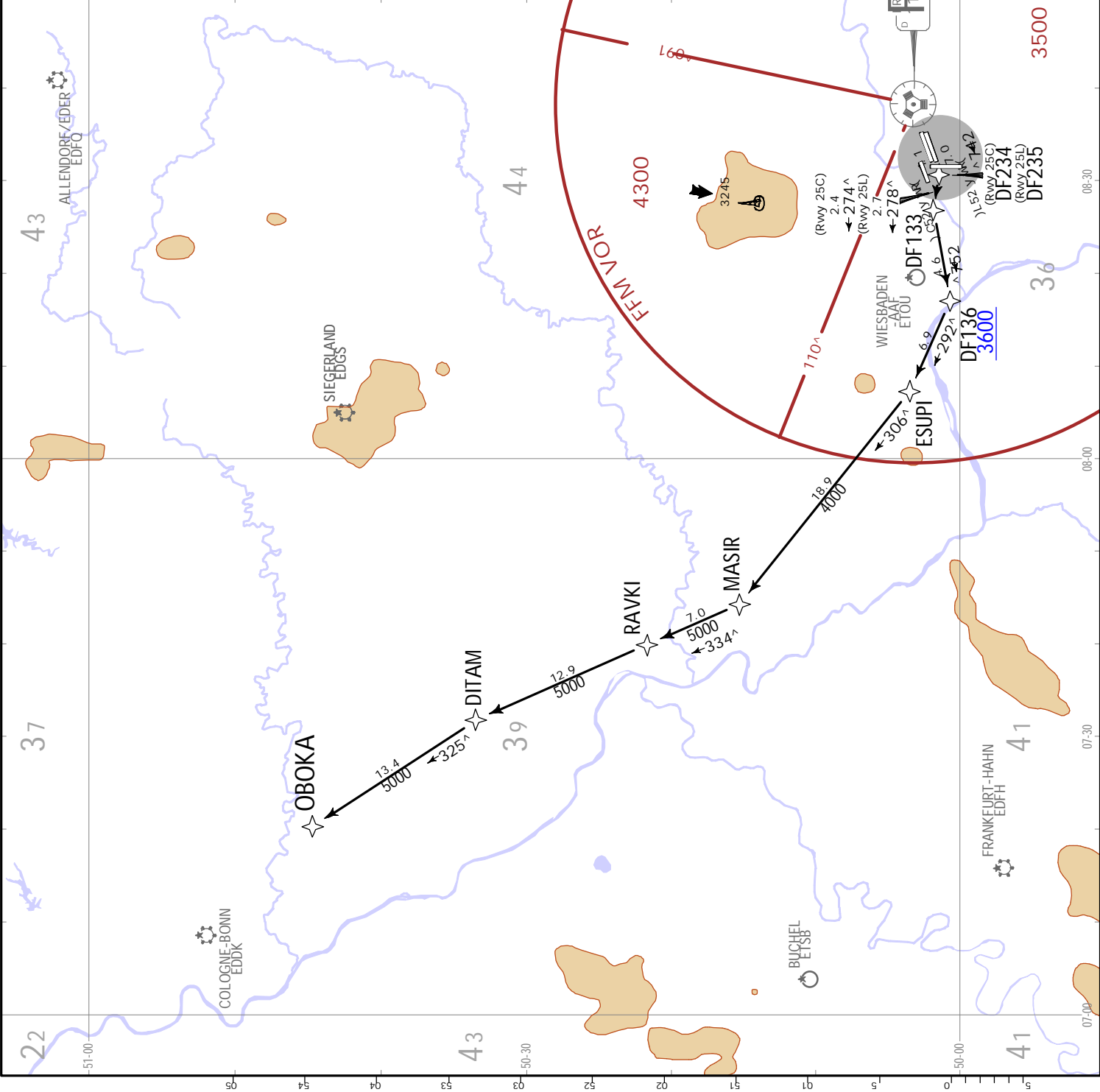
Gnd speed-KT	75	100	150	200	250	300
350 per NM	438	583	875	1167	1458	1750

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

Initial climb clearance **5000**

**ROUTING**

(800+) - DF234 (25C)/DF235 (25L) - DF133 - DF136 (3600+) - ESUPI - MASIR - RAVKI - DITAM - OBOKA.



JEPPesen  
 9 JUL 21 10-3T .Eff. 15.Jul.  
 EDDF/FRA  
 FRANKFURT/MAIN  
 \*LANGEN  
 Radar  
 120.155  
 Apt Elev  
 364  
 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.

FRANKFURT/MAIN, GERMANY  
 .RNAV.SID.(OVERLAY)

**OBOKA 2H [OBOK2H]**  
**RWY 25L RNAV DEPARTURE (OVERLAY 10-3G3)**  
 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**

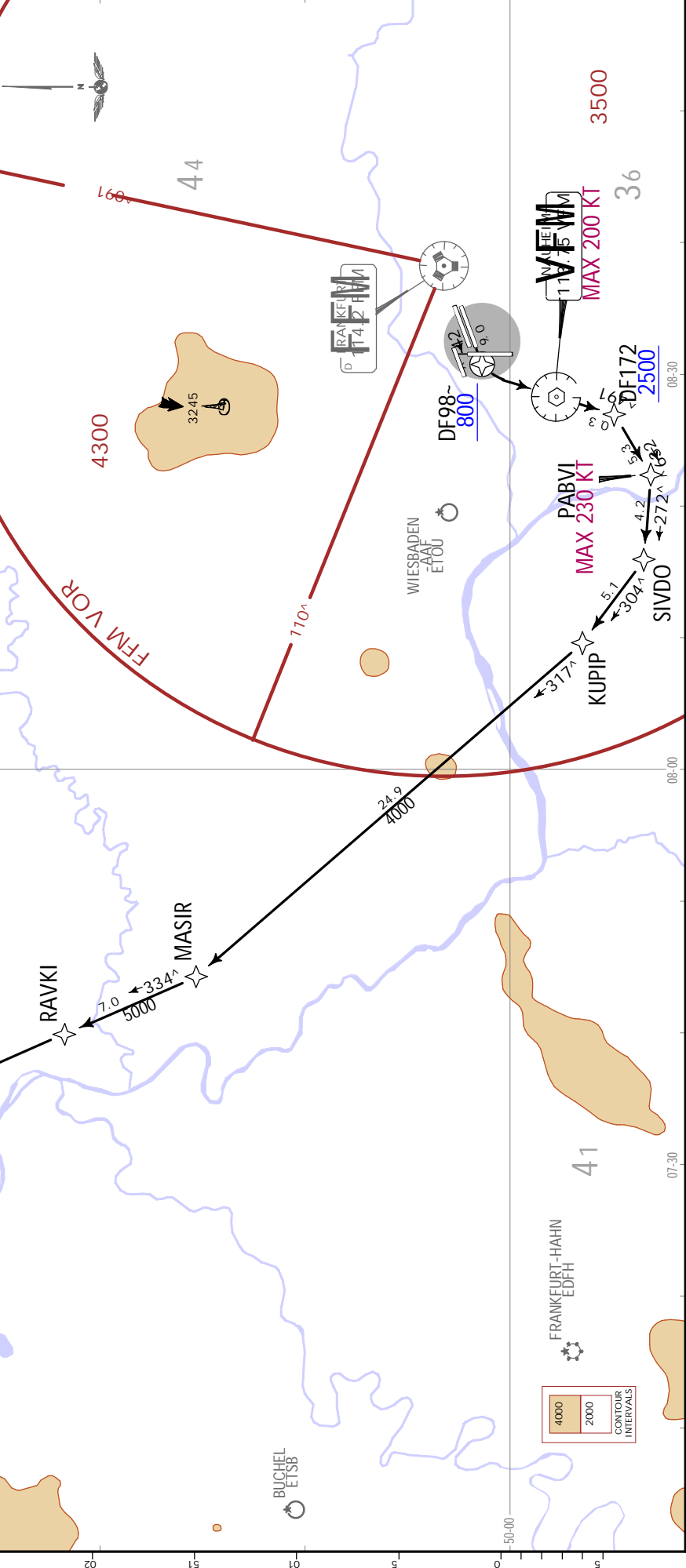
Gnd speed-KT	75	100	150	200	250	300
273 per NM	341	455	683	970	1138	1365
520 per NM	650	867	1300	1733	2167	2600

This SID requires minimum climb gradients of 520 per NM (8.5%) until passing 800, then 273 per NM (4.5%) until passing 2500 due to airspace structure.

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

Initial climb clearance **FL70**

**ROUTING**  
 DF980 (800+) - VFM (K200-) - DF172 (2500+) - PABVI (K230-) - SIVDO - KUPIP - MASIR - RAVKI - DITAM - OBOKA.



**FRANKFURT/MAIN, GERMANY**  
**.RNAV.SID.(OVERLAY).**

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.

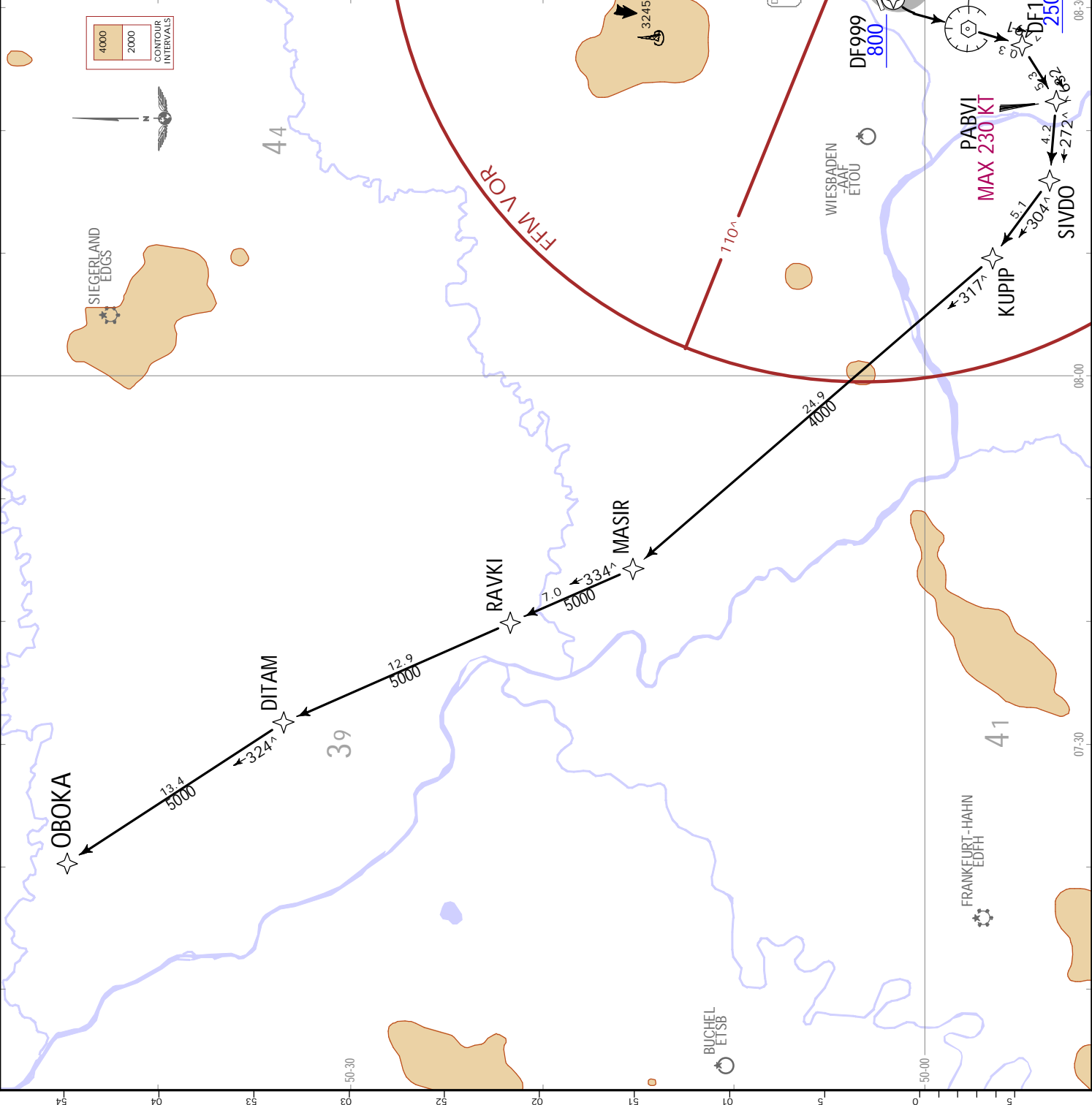
**OBOKA 2M TOBOKZMJ**  
**RWY 25C RNAV DEPARTURE (OVERLAY 10-3G4)**  
**FLIGHTS HAVE TO BE ABLE TO CROSS OBOKA AT OR ABOVE FL170 EXCEPT FLIGHTS TO EDDK IF UNABLE TO COMPLY ADVISE EDDF DELIVERY PRIOR TO START-UP .SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC NOT APPLICABLE WITHIN AIRSPACE C**

This SID requires minimum climb gradients of 520 per NM (8.5%) until passing 800, then 273 per NM (4.5%) until passing 2500 due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
273 per NM	341	455	683	910	1138	1365
520 per NM	650	867	1300	1733	2167	2600

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

Initial climb clearance **FL70**  
**ROUTING**  
 DF999 (800+) - VFM (K200-) - DF172 (2500+) - PABVI (K230-) - SIVDO - KUPIP - MASIR - RAVKI - DITAM - OBOKA.



**EDDF/FRA**  
**FRANKFURT/MAIN**  
 20 AUG 21  
 (10-3T1)

EDDF/FRA  
FRANKFURT/MAIN

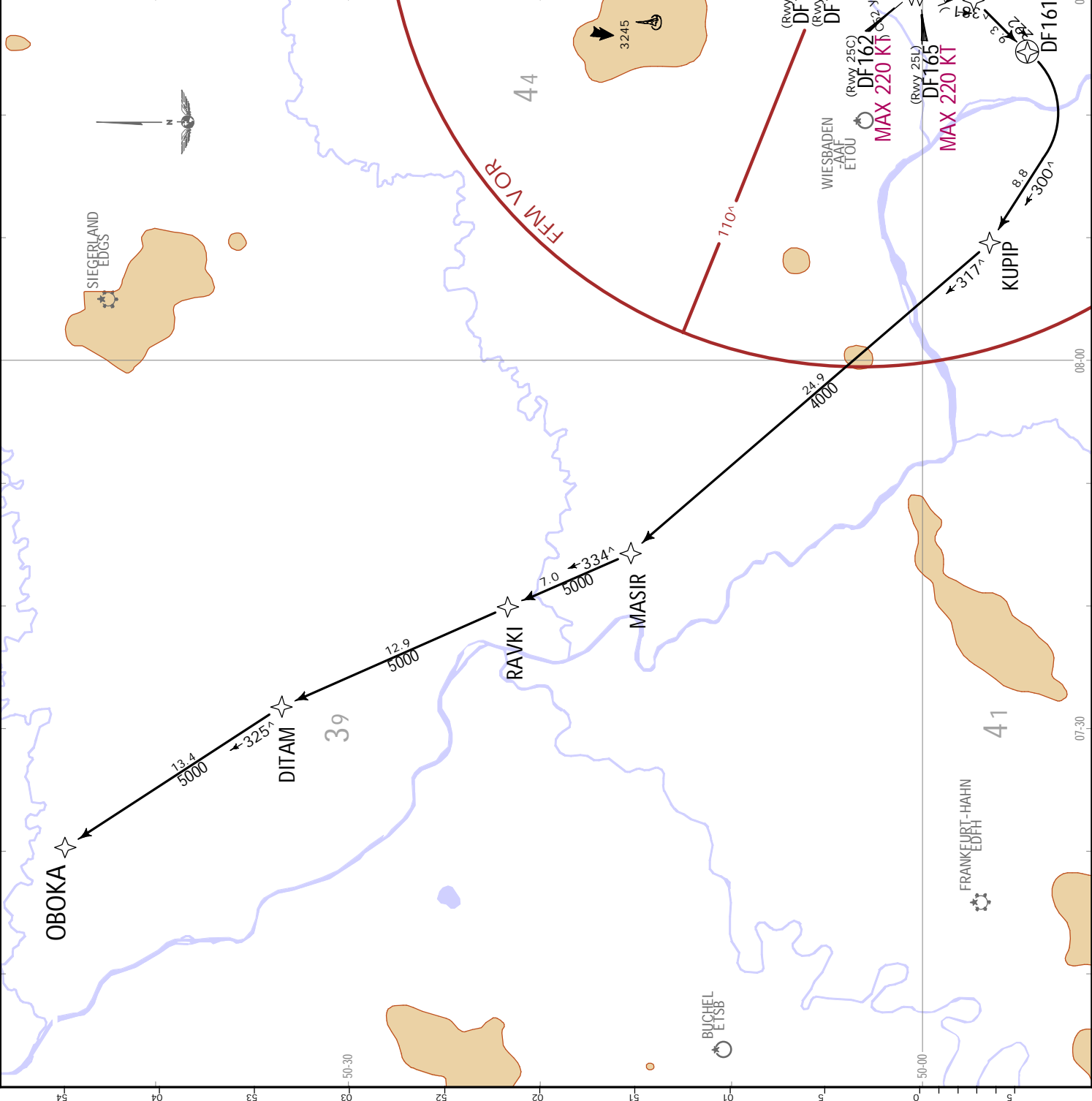
JEPPESSEN  
20 AUG 21 (10-3T2)

FRANKFURT/MAIN, GERMANY  
RNAV SID (OVERLAY)

*LANGEN Radar 120.155	Apt Elev 364	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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**OBOKA 4N [OBOK4N]**  
**RWYS 25L/C RNAV DEPARTURE (OVERLAY 10-3G5)**  
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  
(800+) - DF134 (25C)/DF135 (25L) - DF162 (25C; K220-)/DF165 (25L; K220-) - DF166 - DF161 - KUPIP - MASIR - RAVKI - DITAM - OBOKA.



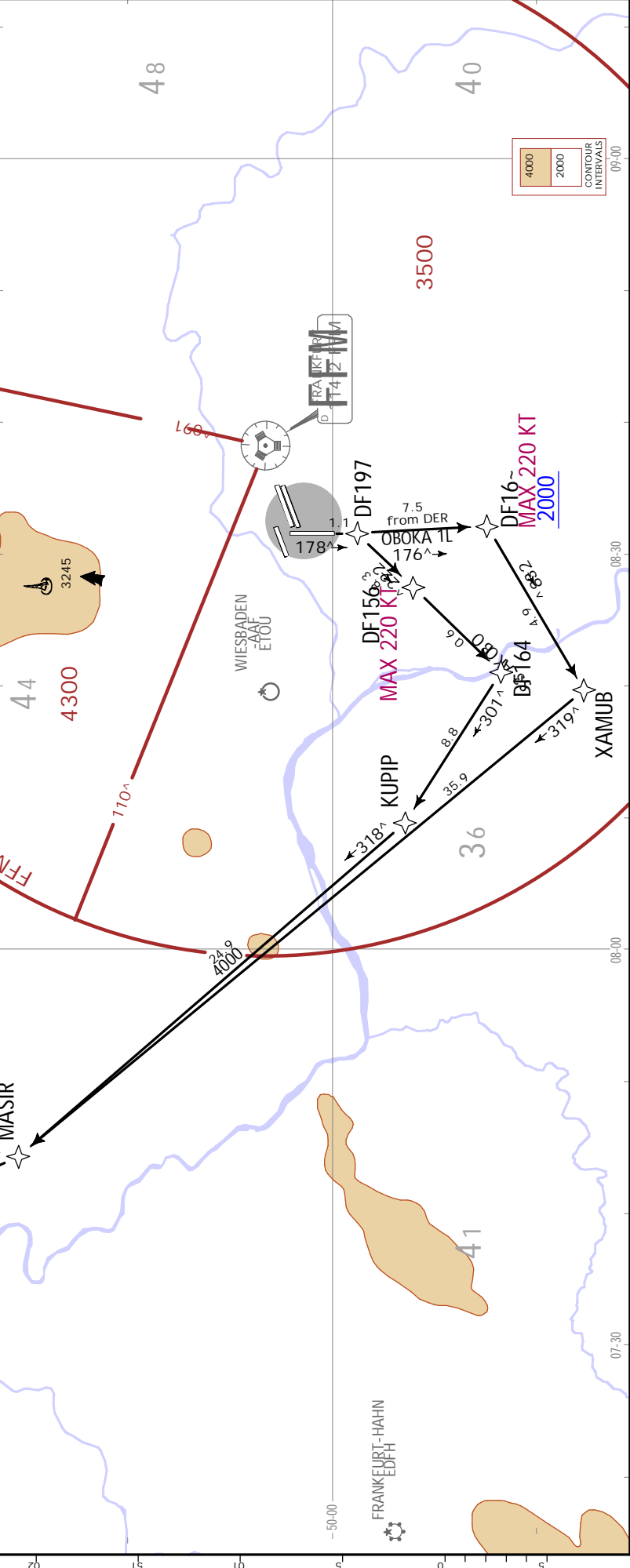
Trans alt: 5000  
 1. Contact LANGEN Radar when advised by Tower.  
 2. SIDs are also noise abatement procedures. Strict adherence within the limits of aircraft performance is MANDATORY.  
 3. EXPECT close-in obstacles.  
 4. Wind shears and increased turbulences must be expected when winds strong.  
 5. For departure designation refer to 10-1P pages.  
 6. Do not turn before DER.

**OBOKA 1L [OBOK1L], OBOKA 3S [OBOK3S]  
 RWY 18 RNAV DEPARTURES (OVERLAY 10-3G6)  
 WILL ONLY BE ASSIGNED WHEN LANDING DIRECTION IS 25  
 FLIGHTS HAVE TO BE ABLE TO CROSS OBOKA AT OR ABOVE FL170 EXCEPT  
 IF UNABLE TO COMPLY ADVISE EDDF DELIVERY PRIOR TO START-UP  
 .SPEED: MAX 250 KT BELOW FL100  
 OR AS BY ATC  
 NOT APPLICABLE WITH AIRSPACE C**

Gnd speed-KT	75	100	150	200	250	300
280 per NM	3.49	4.66	6.99	9.32	11.65	13.98

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

SID	
OBOKA 1L (800+)	- DF160 (K220+) - XAMUB - MASIR - RAVKI - DITAM - OBOKA.
OBOKA 3S (800+)	- DF156 (K220+) - DF164 - KUPIP - MASIR - RAVKI - DITAM - OBOKA.





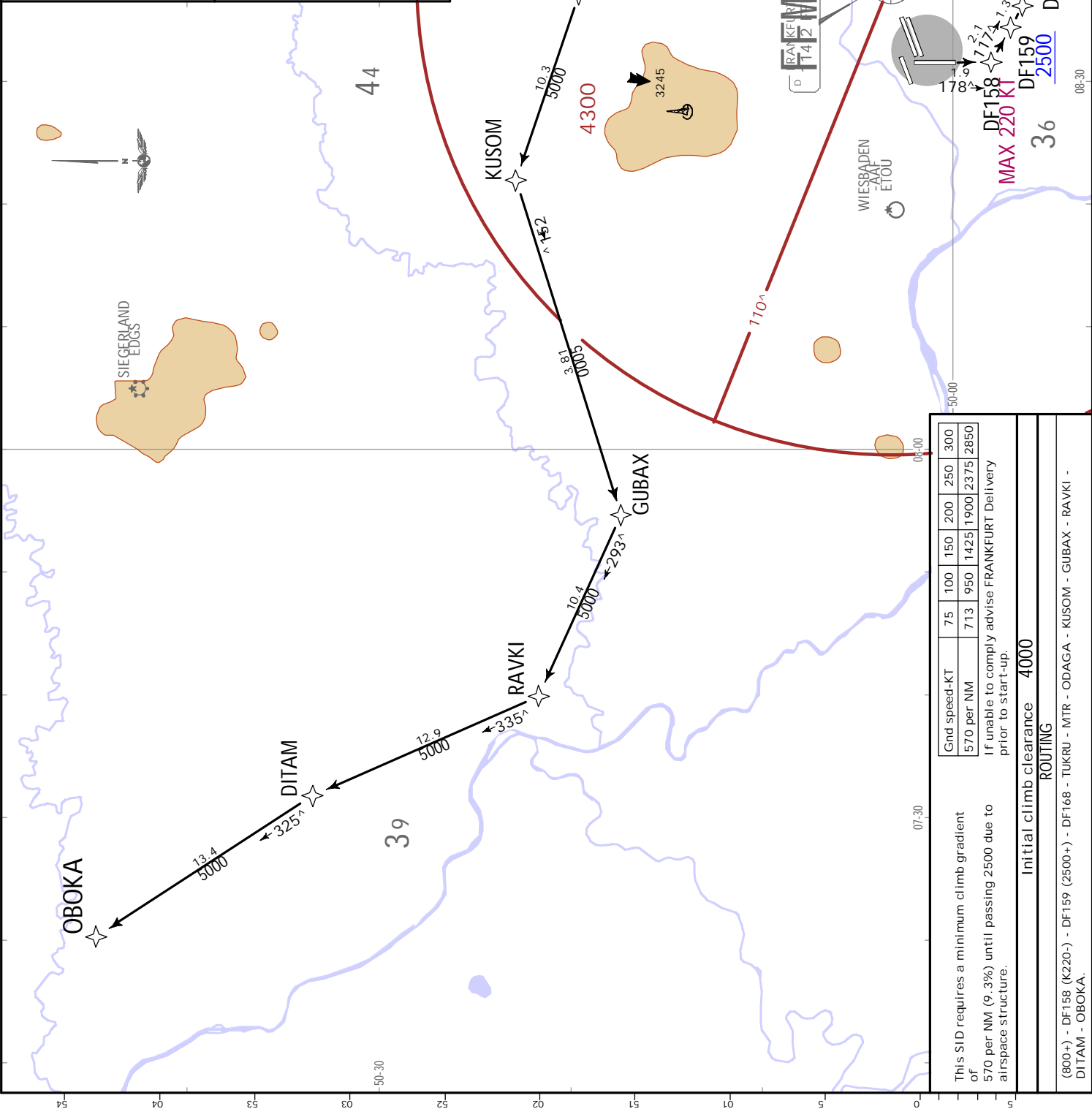
Trans alt: 5000

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. EXPECT close-in obstacles.  
4. Wind shears and increased turbulences must be expected when winds strong.  
5. For operational RWY use concept refer to 10-1P pages.  
6. Do not turn before DER.

Apt Elev 364  
\*LANGEN Radar 120.155

**OBOKA 1R [OBOK1R]  
RWY 18 RNAV DEPARTURE  
(OVERLAY 10-3H)  
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**



This SID requires a minimum climb gradient of 570 per NM (9.3%) until passing 2500 due to airspace structure.	Gnd speed-KT	75	100	150	200	250	300
	570 per NM	713	950	1425	1900	2375	2850
If unable to comply advise FRANKFURT Delivery prior to start-up.							
Initial climb clearance <b>4000</b>							
<b>ROUTING</b>							
(800+) - DF158 (K220-) - DF159 (2500+) - DF168 - TUKRU - MTR - ODAGA - KUSOM - GUBAX - RAVKI - DITAM - OBOKA.							

**EDDF/FRA**  
FRANKFURT/MAIN

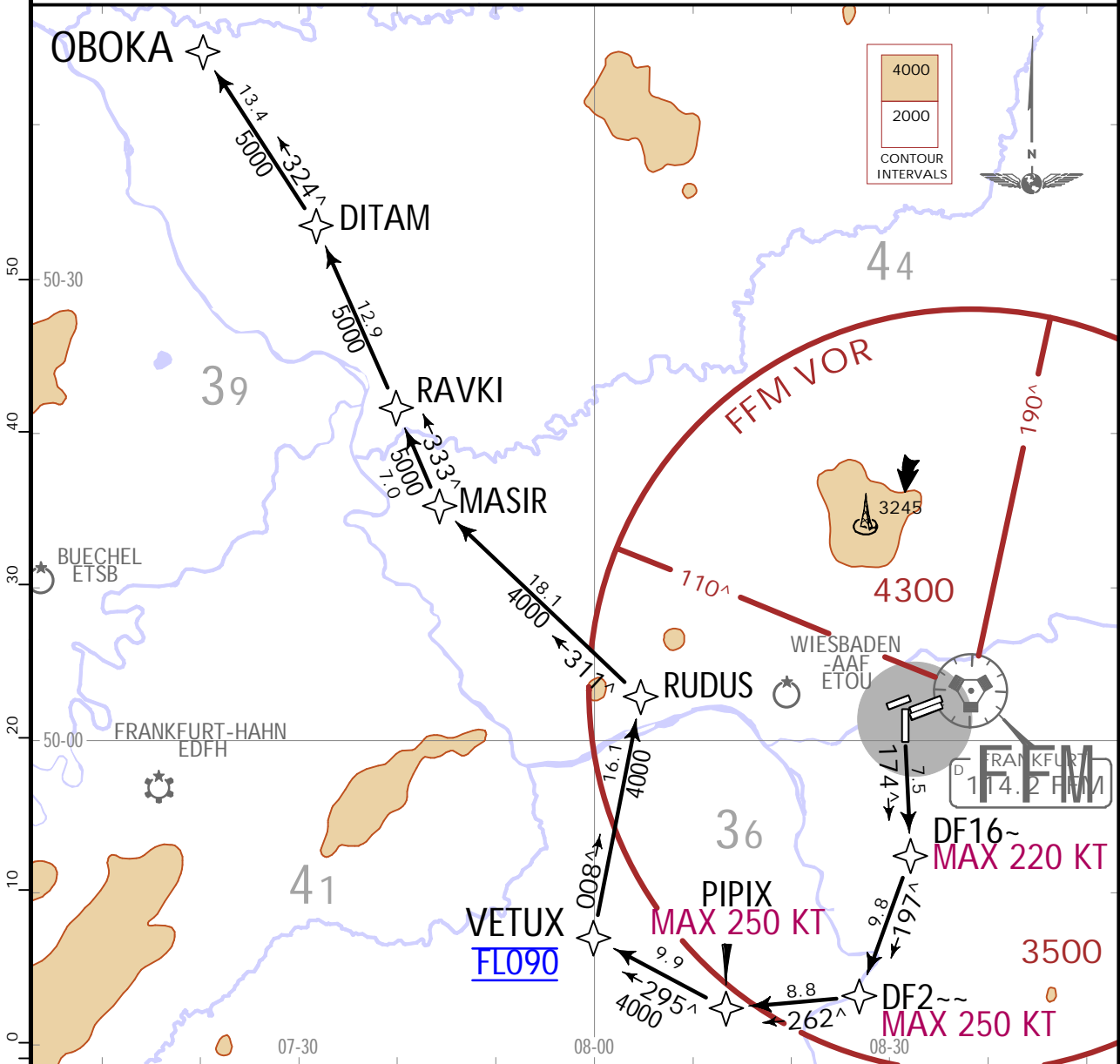
**JEPPESSEN** FRANKFURT/MAIN, GERMANY  
29 OCT 21 (10-3T5) .Eff.4.Nov.

.RNAV.SID.(OVERLAY).  
FRANKFURT/MAIN, GERMANY

<p>*LANGEN Radar 136.130</p>	<p>Apt Elev 364</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. Wind shears and increased turbulences must be expected when winds strong. 5. For operational RWY use concept refer to 10-1P pages. 6. Do not turn before DER.</p>
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**OBOKA 2T [OBOK2T]**  
**RNAV DEPARTURE (OVERLAY 10-3J)**  
**(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**



This SID requires a minimum climb gradient of 345 per NM (5.7%) until passing FL090 due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
345 per NM	431	575	863	1150	1438	1725

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

Initial climb clearance **4000**

**ROUTING**

(800+) - DF16~ (K220-) - DF2~~ (K250-) - PIPIX (K250-) - VETUX (FL090) - RUDUS - MASIR - RAVKI - DITAM - OBOKA.

EDDF/FRA  
FRANKFURT/MAIN

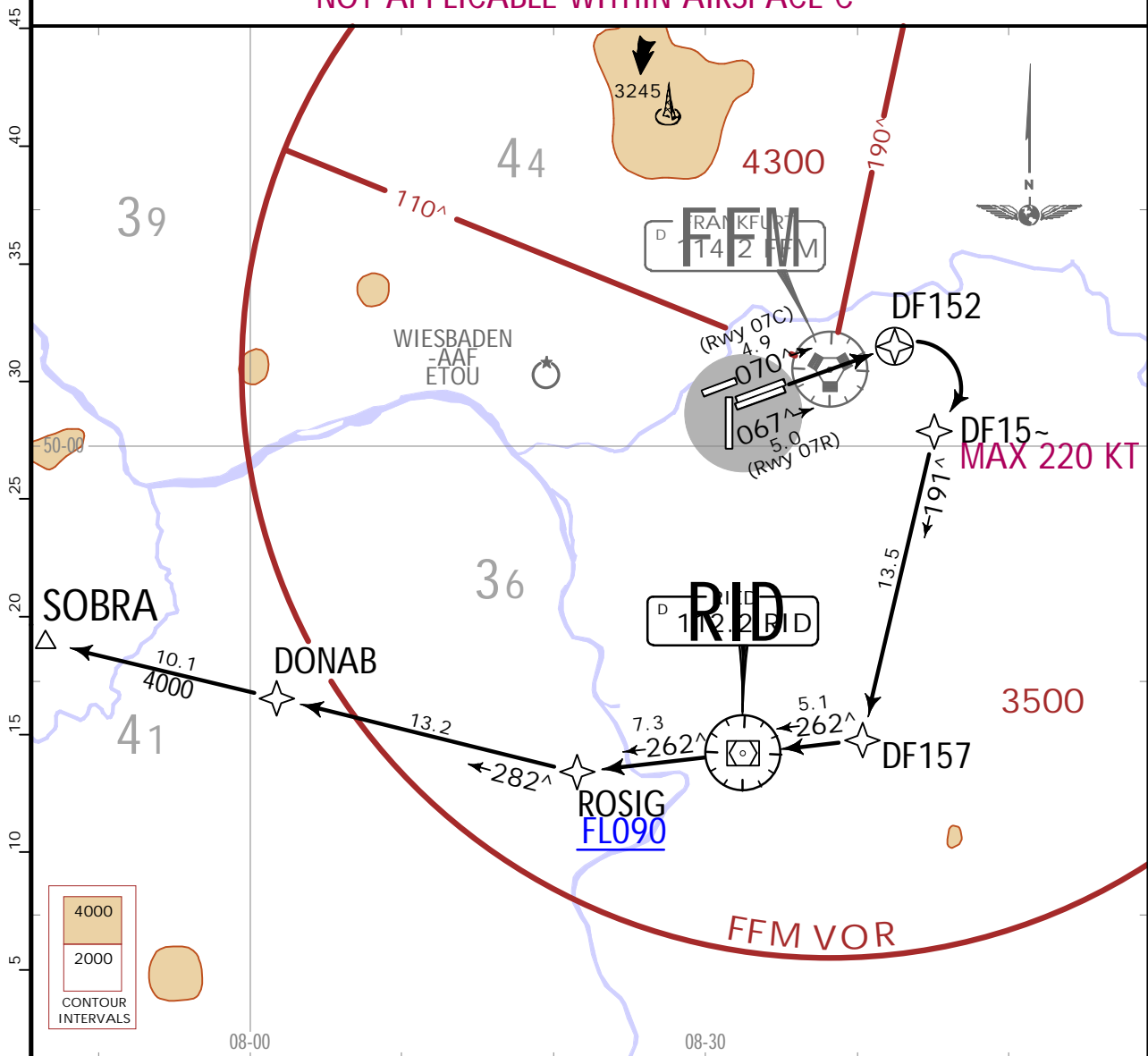
JEPPESEN 29 OCT 21 (10-3T6) .Eff.4.Nov.

FRANKFURT/MAIN, GERMANY  
.RNAV.SID.(OVERLAY).

\*LANGEN  
Radar  
136.130  
Apt Elev  
364

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.

**SOBRA 6D [SOBR6D]**  
**RNAV DEPARTURE (OVERLAY 10-3J2)**  
**(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**



This SID requires a minimum climb gradient of 240 per NM (3.9%) until passing FLO90 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 FRANKFURT Delivery prior to start-up.

Initial climb clearance **4000**  
**ROUTING**  
(800+) - DF152 - DF15~ (K220-) - DF157 - RID - ROSIG (FL090+) - DONAB - SOBRA.

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FRANKFURT/MAIN

**JEPPESEN** FRANKFURT/MAIN, GERMANY  
29 OCT 21 (10-3U) .Eff.4.Nov.

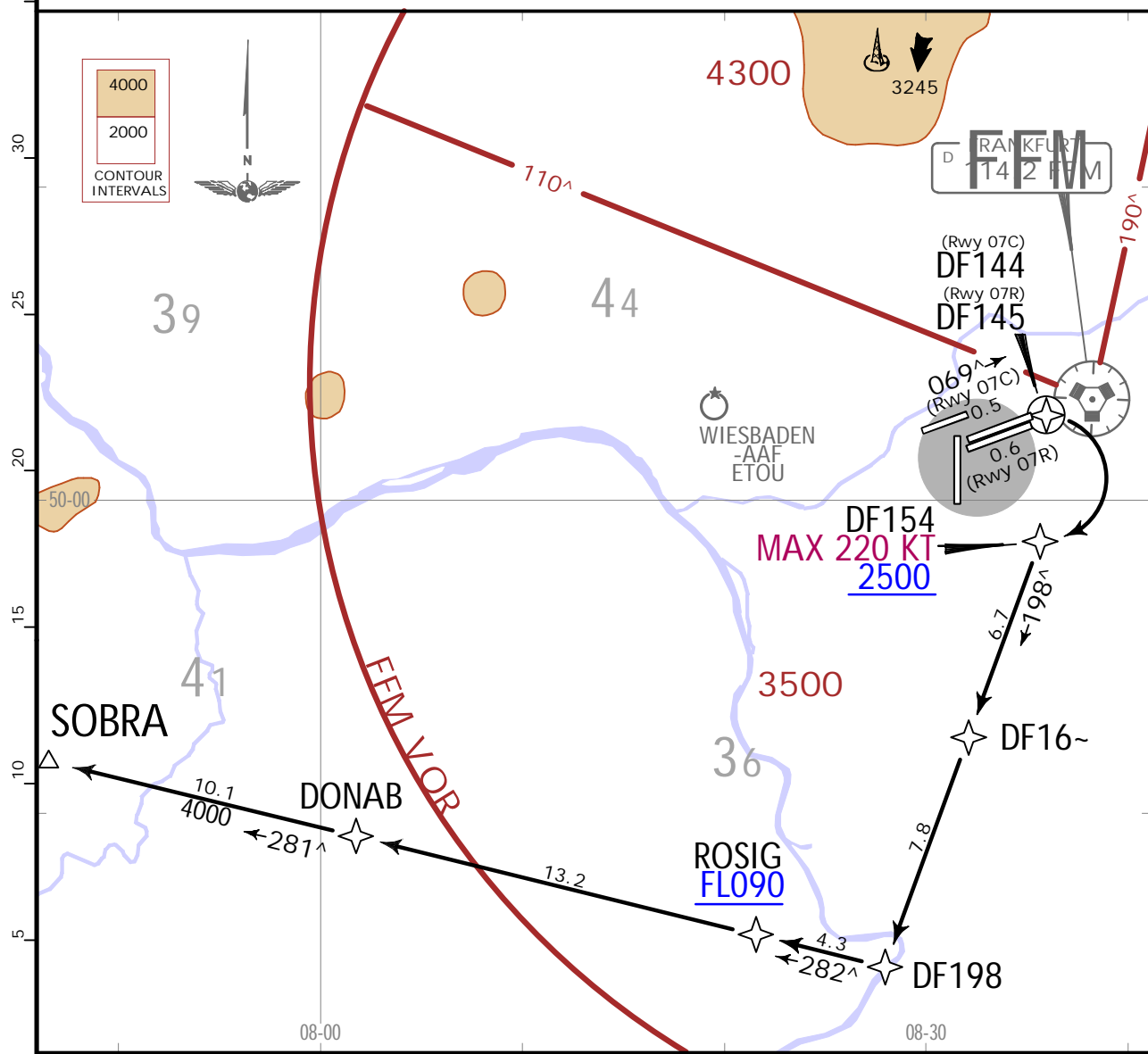
.RNAV.SID.(OVERLAY).

*LANGEN Radar 136.130	Apt Elev 364	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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**SOBRA 6E [SOBR6E]**  
**RNAV DEPARTURE (OVERLAY 10-3K)**  
**(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**



This SID requires a minimum climb gradient of 335 per NM (5.5%) until passing FL90 due to airspace structure.	Gnd speed-KT	75	100	150	200	250	300
	335' per NM	419	558	838	1117	1396	1675

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

Initial climb clearance **4000**

**ROUTING**

(800+) - DF144 (07C)/DF145 (07R) - DF154 (K220-; 2500+) - DF16~ - DF198 - ROSIG (FLO90+) - DONAB - SOBRA.

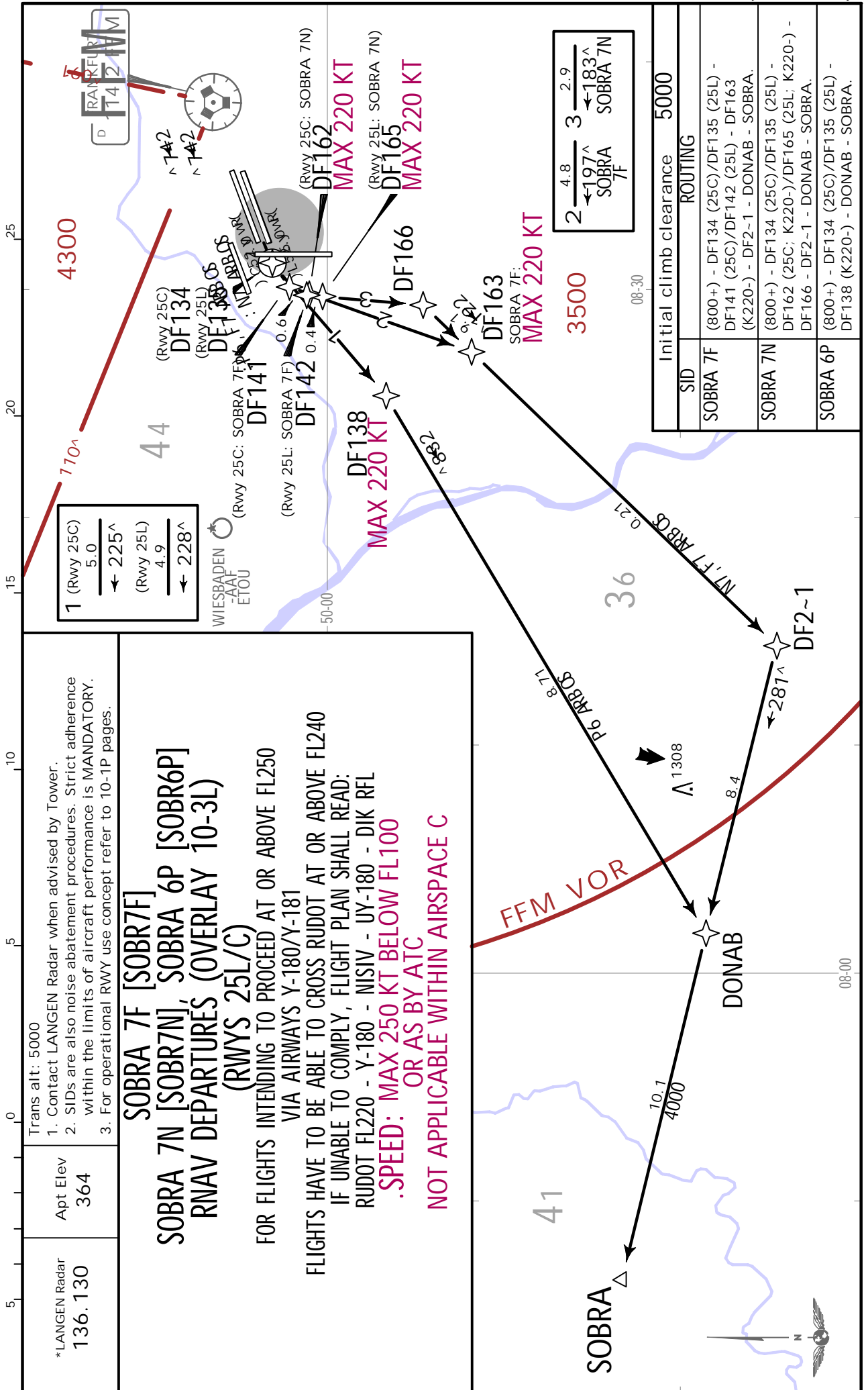
**EDDF/FRA**  
FRANKFURT/MAIN

29 OCT 21

10-3V

Eff. 4. Nov.

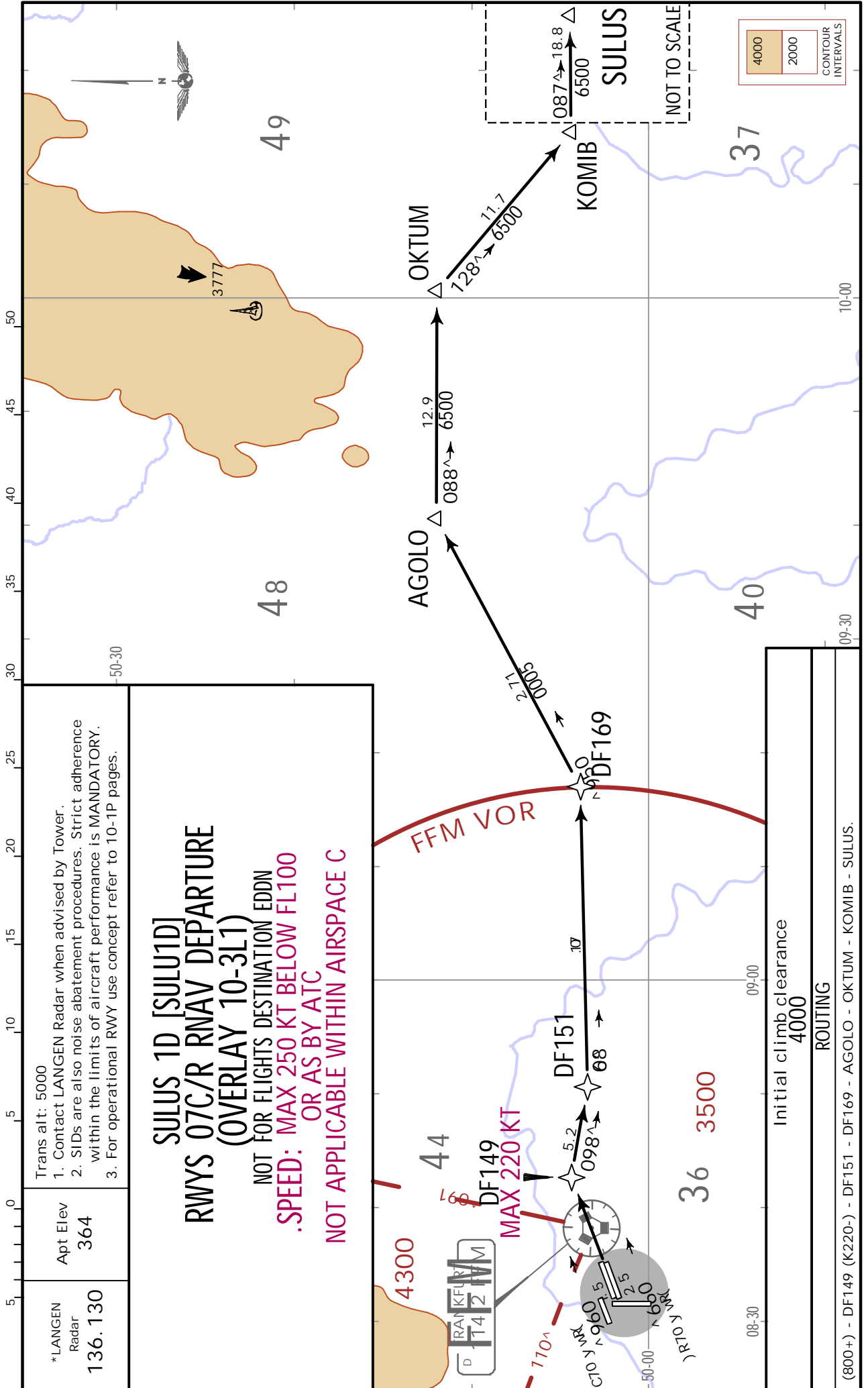
**JEPPESSEN FRANKFURT/MAIN, GERMANY**  
.RNAV.SID.(OVERLAY).



EDDF/FRA  
FRANKFURT/MAIN

JEPPESSEN FRANKFURT/MAIN, GERMANY  
7 SEP 18 (10-3V1) .Eff.13.Sep.

.RNAV.SID.(OVERLAY).





**EDDF/FRA**  
**FRANKFURT/MAIN**  
**JEPPESSEN**  
 (10-3V2) 29 OCT 21  
 Eff. 4. Nov.

**\*LANGEN**  
 Radar  
**136.130**

**Apt Elev**  
**364**

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.

**SULUS 2F [SULU2F]**  
**RNAV DEPARTURE**  
**(OVERLAY 10-3L2)**  
**(RWYS 25L/C)**  
**.SPEED: MAX 250 KT BELOW FL100**  
**OR AS BY ATC**  
**NOT APPLICABLE WITHIN AIRSPACE C**

**SULUS**

NOT TO SCALE

5000  
 2.73

**COSJE**

GIEBELSTADT  
 EDOG

This SID requires a minimum climb gradient of 320 per NM (5.2%) until passing 2500 due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
320 per NM	400	533	800	1067	1333	1600

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

**Initial climb clearance 5000**

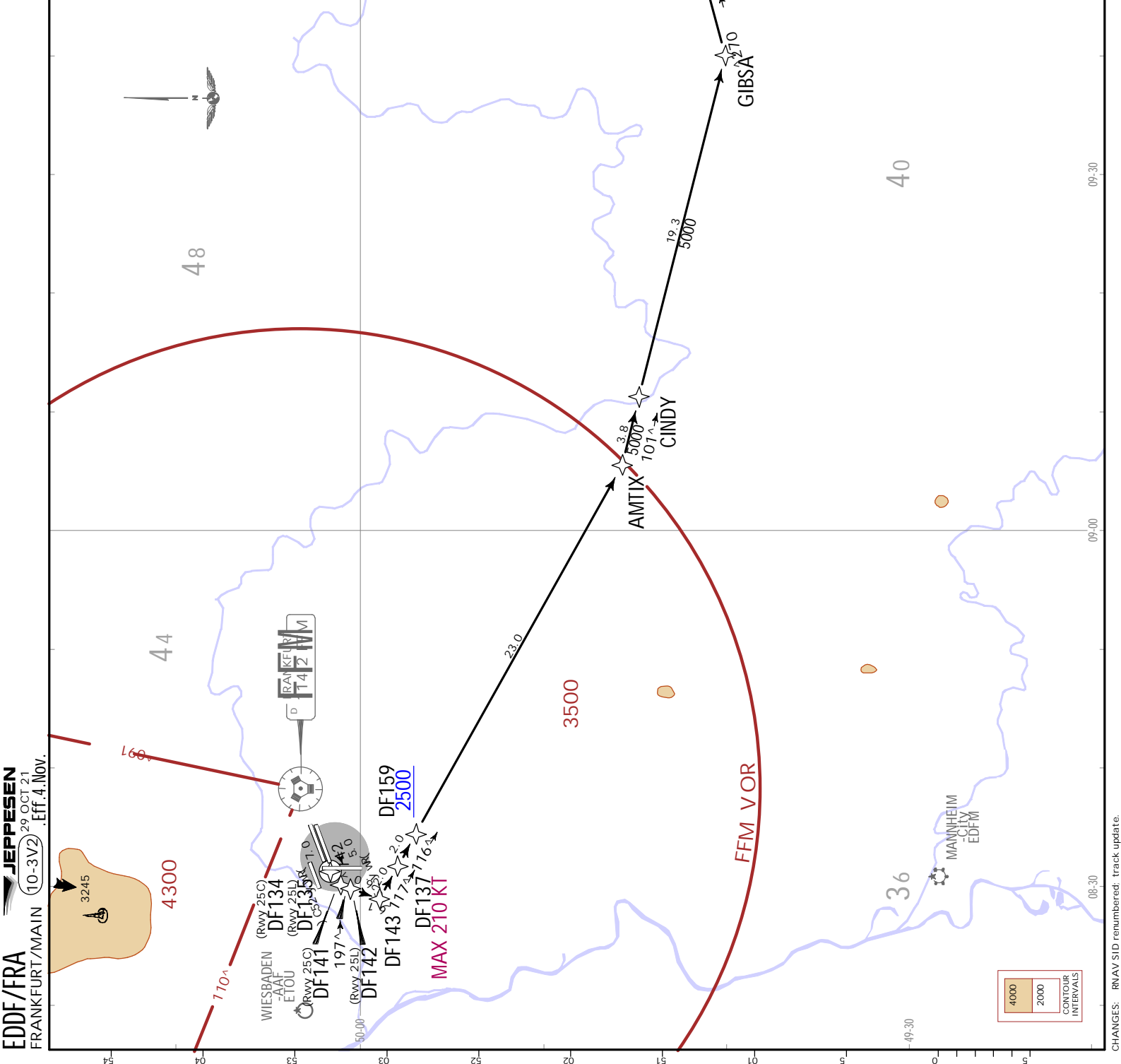
**ROUTING**

(800+) - DF134 (25C)/DF135 (25L) - DF141 (25C)/DF142 (25L) - DF143 - DF137 (K210-) - DF159 (2500+) - AMTIX - CINDY - GIBSA - COSJE - SULUS.

**Initial climb clearance 5000**

**ROUTING**

(800+) - DF134 (25C)/DF135 (25L) - DF141 (25C)/DF142 (25L) - DF143 - DF137 (K210-) - DF159 (2500+) - AMTIX - CINDY - GIBSA - COSJE - SULUS.



**FRANKFURT/MAIN, GERMANY**  
**.RNAV.SID.(OVERLAY).**

**EDDF/FRA**  
**FRANKFURT/MAIN**  
**(10-3V3)**  
 29 OCT 21  
 Eff. 4 Nov.

**JEPPESSEN**  
 10-3V3  
 29 OCT 21  
 Eff. 4 Nov.

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.
- WARNING: Close-in obstacles.
- Wind shears and increased turbulences must be expected when winds strong.
- For operational RWY use concept refer to 10-1P pages.
- Do not turn before DER.

\* LANGEN Radar  
 136.130

Apt Elev  
 364

**SULUS 1L [SULU1L], SULUS 3S [SULU3S]  
 RNAV DEPARTURES (OVERLAY 10-3L3)  
 (RWY 18)**

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

SULUS 3S	Gnd speed-KT	75	100	150	200	250	300
This SID requires a minimum climb gradient of 570 per NM (9.3%) until passing 2500 due to airspace structure.	570 per NM	713	950	1425	1900	2375	2850

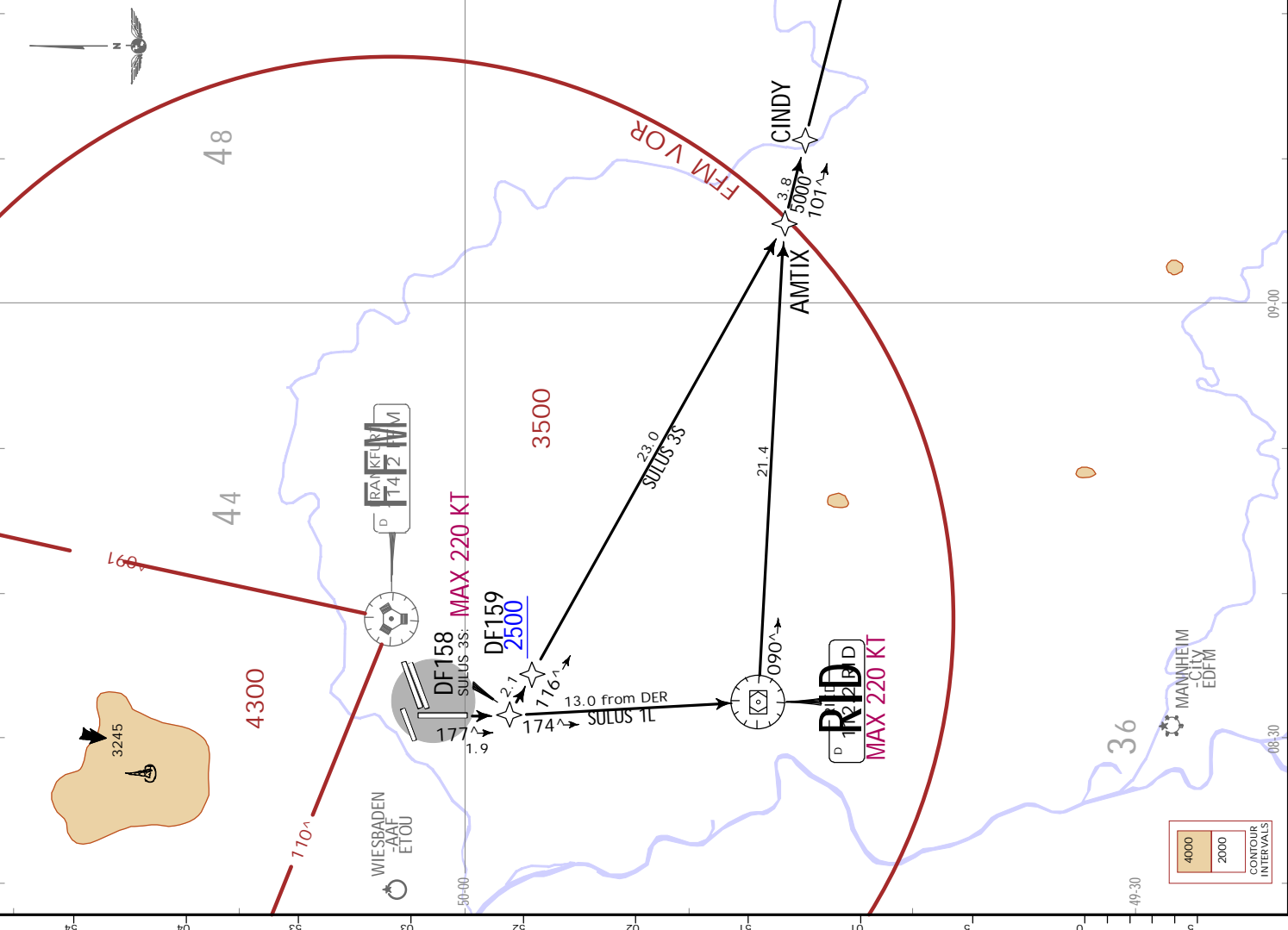
If unable to comply advise FRANKFURT Delivery prior to start-up and EXPECT routing via SULUS 1L.

Initial climb clearance **4000**

**ROUTING**

**SULUS 1L** (800+) - RID (K220-) - AMTIX - CINDY - GIBSA - COSJE - SULUS.

**SULUS 3S** (800+) - DF158 (K220-) - DF159 (2500+) - AMTIX - CINDY - GIBSA - COSJE - SULUS.



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FRANKFURT/MAIN

JEPPESEN  
30 OCT 20 (10-3W) .Eff.5.Nov.

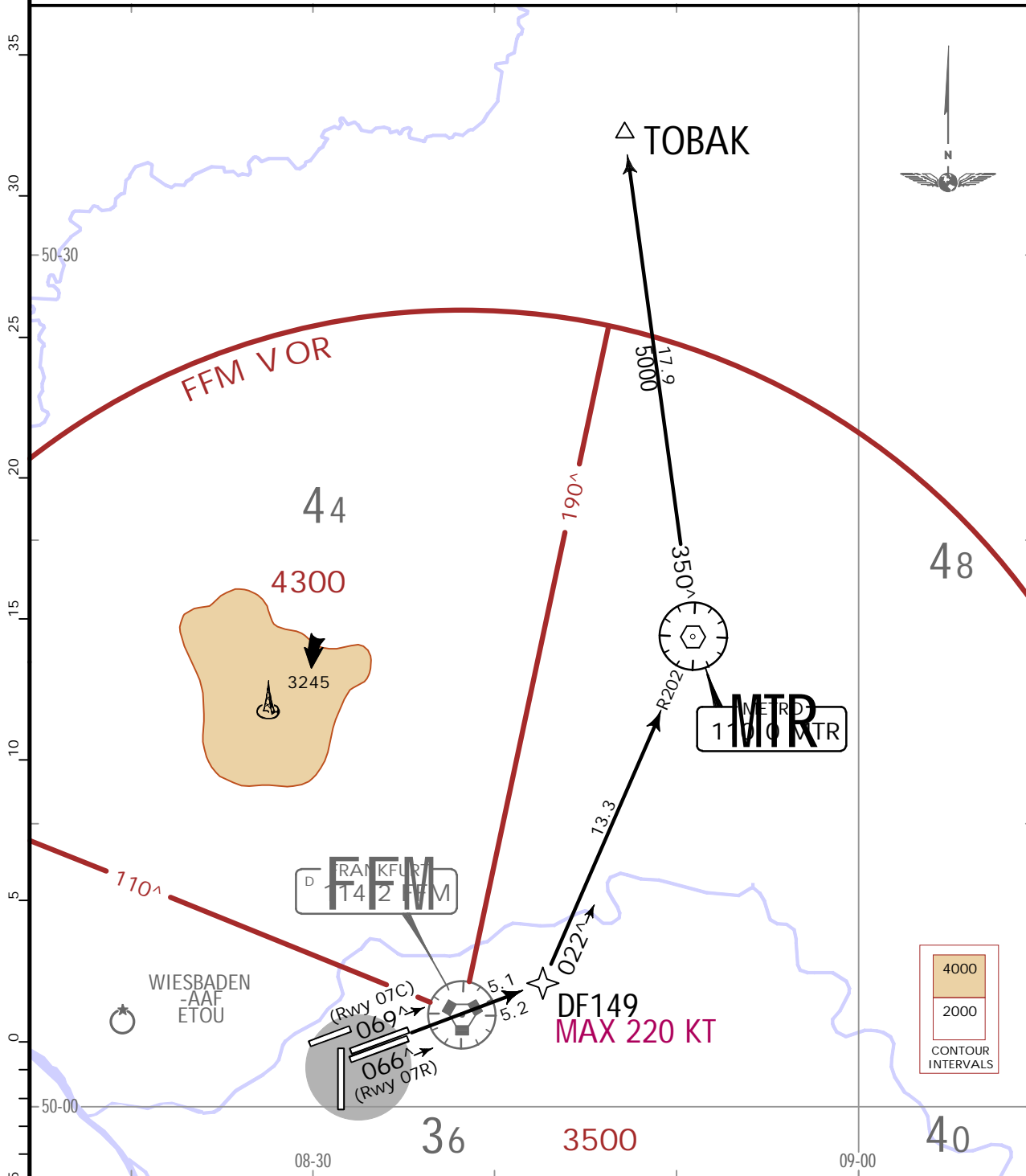
FRANKFURT/MAIN, GERMANY  
.RNAV.SID.(OVERLAY).

\*LANGEN  
Radar  
120.155

Apt Elev  
364

- 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 9D [TOBA9D]**  
**RWYS 07C/R RNAV DEPARTURE (OVERLAY 10-3L5)**  
 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.



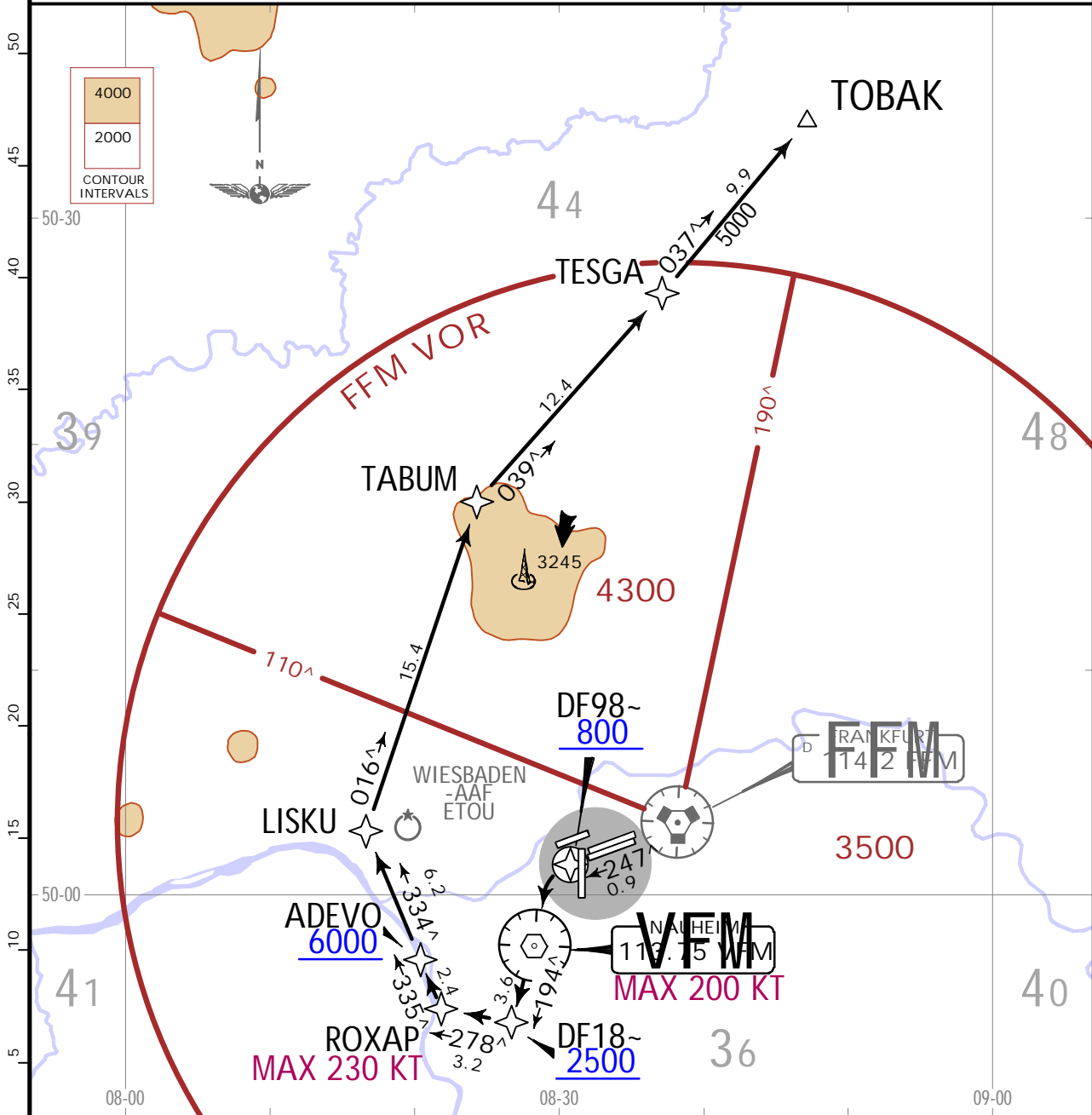
**EDDF/FRA**  
FRANKFURT/MAIN

**JEPPESEN**  
20 AUG 21 (10-3X1)

**FRANKFURT/MAIN, GERMANY**  
.RNAV.SID.(OVERLAY).

*LANGEN Radar 120.155	Apt Elev 364	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]**  
**RWY 25L RNAV DEPARTURE**  
**(OVERLAY 10-3L7)**  
**.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 **FL70**

**ROUTING**

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

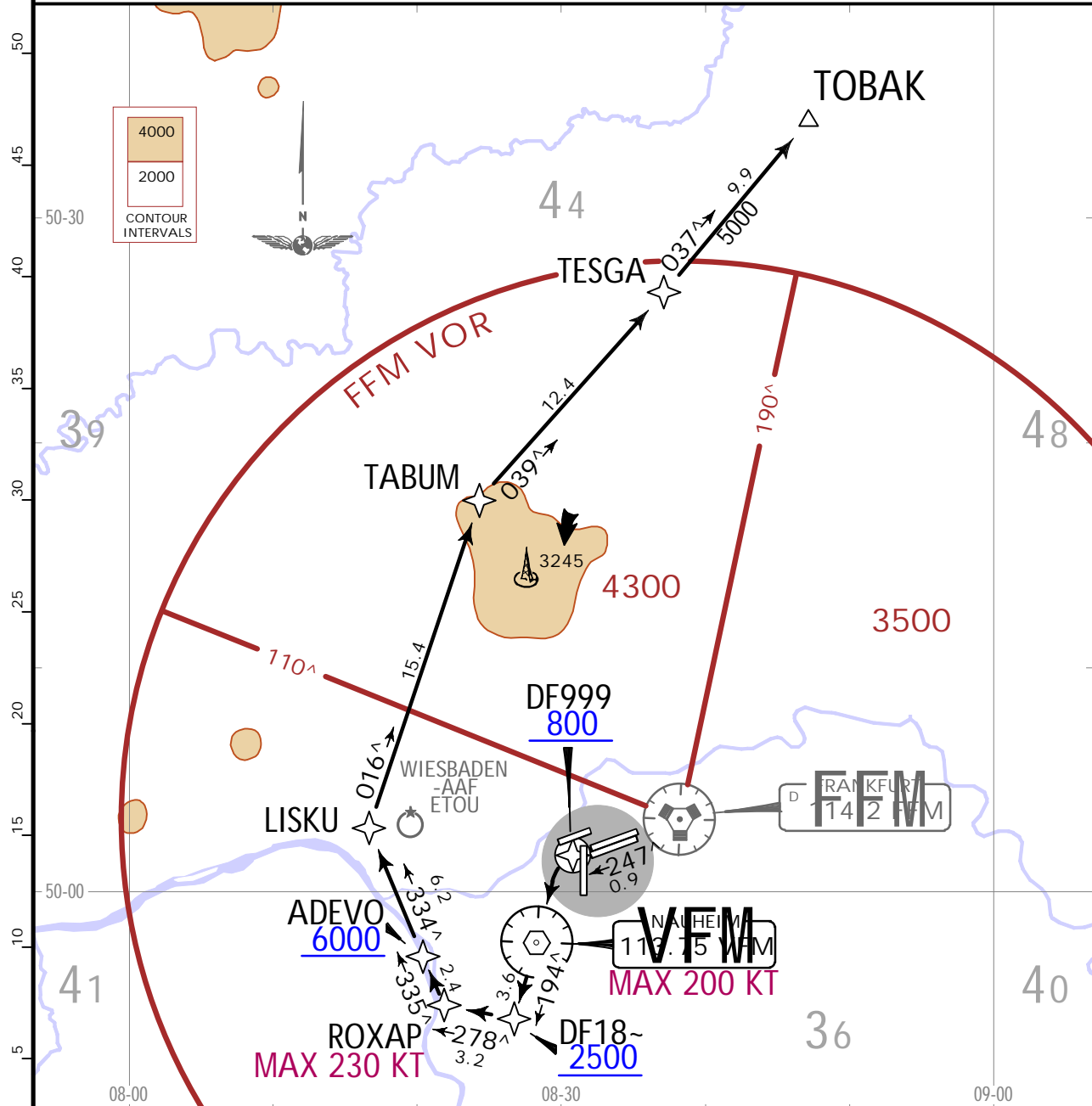
**EDDF/FRA**  
FRANKFURT/MAIN

**JEPPESSEN** 20 AUG 21 **10-3X2**

**FRANKFURT/MAIN, GERMANY**  
.RNAV.SID.(OVERLAY).

*LANGEN Radar 120.155	Apt Elev 364	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]**  
**RWY 25C RNAV DEPARTURE**  
**(OVERLAY 10-3L8)**  
**.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 **FL70**

**ROUTING**

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



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FRANKFURT/MAIN

30 OCT 20

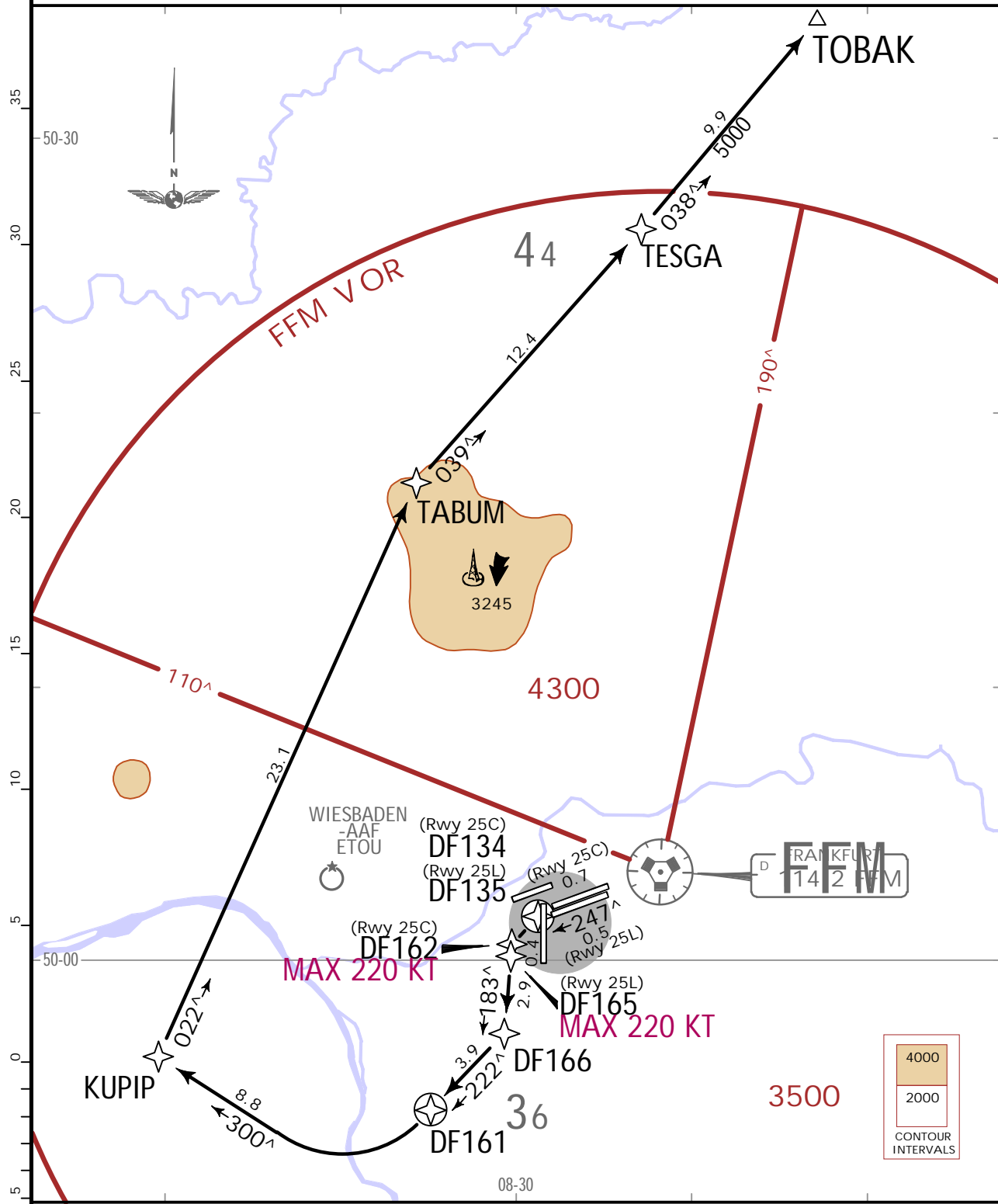


FRANKFURT/MAIN, GERMANY  
.RNAV.SID.(OVERLAY).  
Eff.5.Nov.

\*LANGEN  
Radar  
120.155  
Apt Elev  
364

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 2N [TOBA2N]**  
**RWYS 25L/C RNAV DEPARTURE (OVERLAY 10-3M)**  
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+) - DF134 (25C)/DF135 (25L) - DF162 (25C; K220-)/DF165 (25L; K220-) - DF166 - DF161 - KUPIP - TABUM - TESGA - TOBAK.

EDDF/FRA  
FRANKFURT/MAIN

30 OCT 20

10-3X4

.Eff.5.Nov.

FRANKFURT/MAIN, GERMANY  
.RNAV.SID.(OVERLAY).

\*LANGEN  
Radar  
120.155

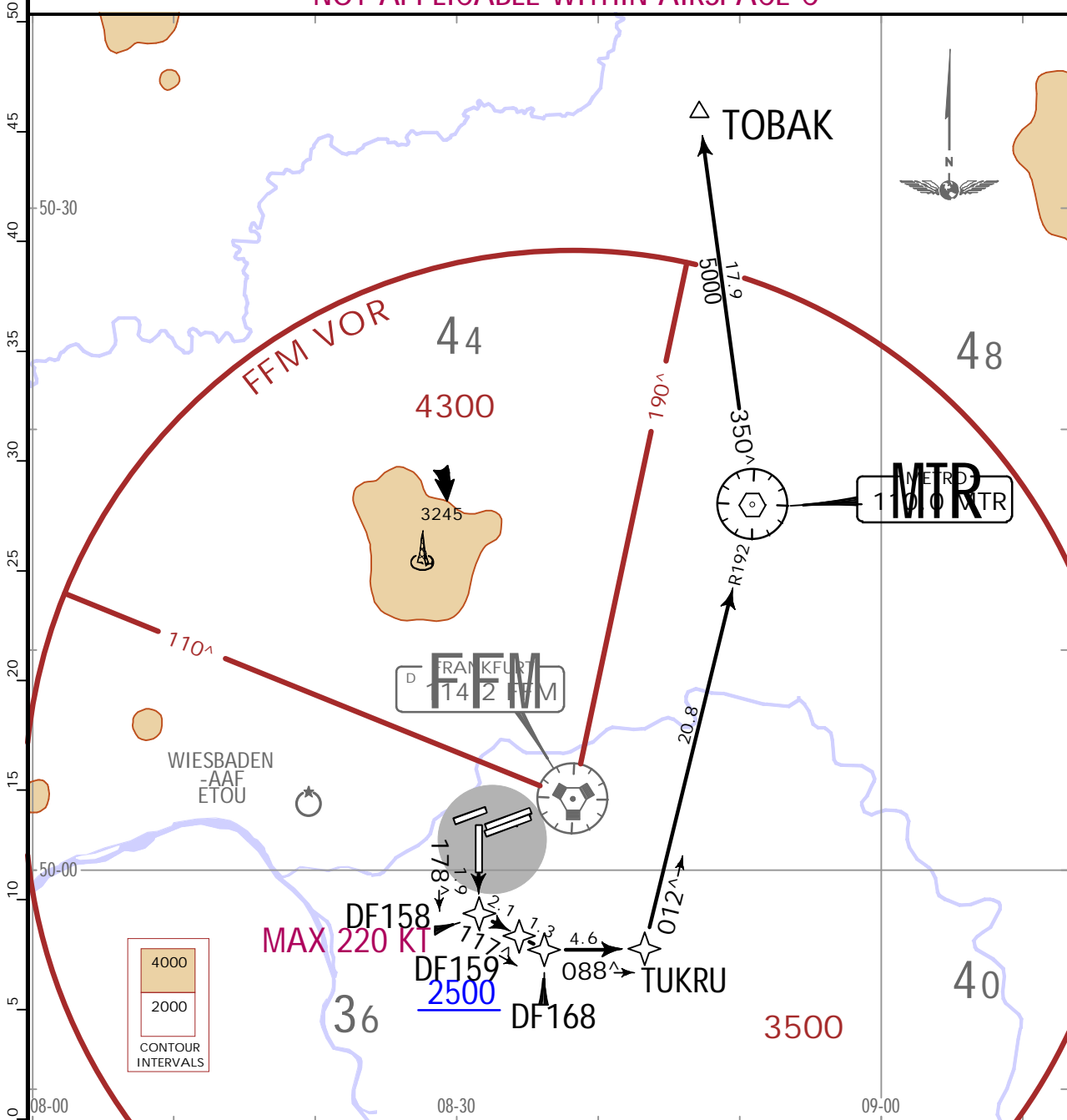
Apt Elev  
364

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.
- WARNING: Close-in obstacles.
- Wind shears and increased turbulences must be expected when winds strong.
- For operational RWY use concept refer to 10-1P pages.
- Do not turn before DER.

**TOBAK 3R [TOBA3R]**  
**RWY 18 RNAV DEPARTURE (OVERLAY 10-3N)**  
 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**



This SID requires a minimum climb gradient of 565 per NM (9.3%) until passing 2500 due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
565 per NM	706	942	1413	1884	2355	2825

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

Initial climb clearance 4000

**ROUTING**

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

EDDF/FRA  
FRANKFURT/MAIN

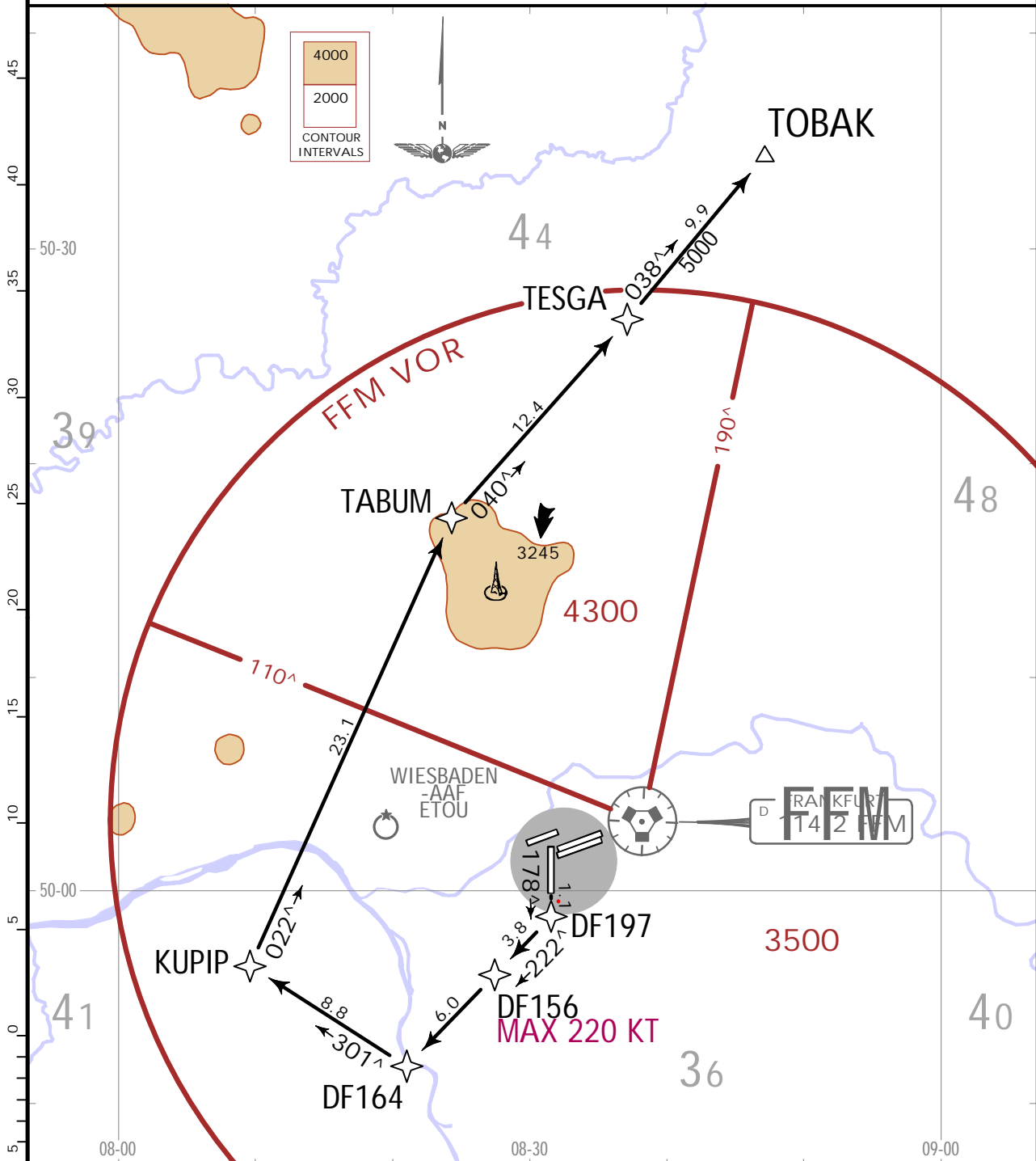
JEPPESSEN FRANKFURT/MAIN, GERMANY  
29 OCT 21 (10-3X5) .Eff.4.Nov.

.RNAV.SID.(OVERLAY).

<p>*LANGEN Radar 120.155</p>	<p>Apt Elev 364</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. Wind shears and increased turbulences must be expected when winds strong. 5. For operational RWY use concept refer to 10-1P pages. 6. Do not turn before DER.</p>
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**TOBAK 9S [TOBA9S]  
RNAV DEPARTURE (OVERLAY 10-3N1)  
(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**



<p>Initial climb clearance 4000</p>
<p>ROUTING</p>
<p>(800+) - DF197 - DF156 (K220-) - DF164 - KUPIP - TABUM - TESGA - TOBAK.</p>

**EDDF/FRA**  
FRANKFURT/MAIN

29 OCT 21

10-3X6

.Eff.4.Nov.

**JEPPESEN** **FRANKFURT/MAIN, GERMANY**  
.RNAV.SID.(OVERLAY).

\*LANGEN  
Radar  
136.130

Apt Elev  
364

- Trans alt: 5000
- 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. Wind shears and increased turbulences must be expected when winds strong. 5. For operational RWY use concept refer to 10-1P pages. 6. Do not turn before DER.

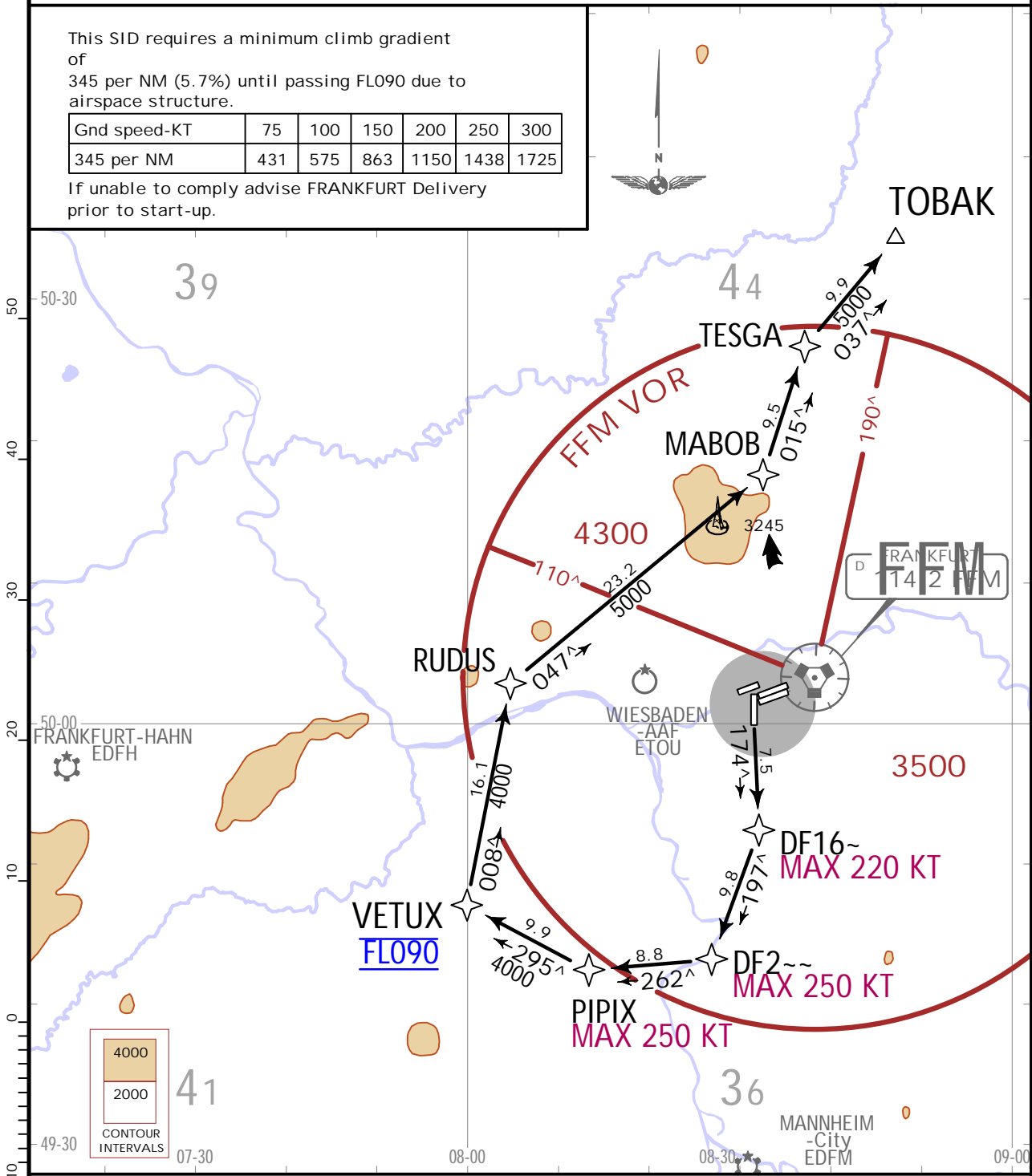
**TOBAK 7T [TOBA7T]**  
**RNAV DEPARTURE (OVERLAY 10-3N2)**  
**(RWY 18)**

NOT FOR FLIGHTS CONTINUING VIA AIRWAY Z-10  
**.SPEED: MAX 250 KT BELOW FL100 OR AS BY ATC**  
**NOT APPLICABLE WITHIN AIRSPACE C**

This SID requires a minimum climb gradient of 345 per NM (5.7%) until passing FL090 due to airspace structure.

Gnd speed-KT	75	100	150	200	250	300
345 per NM	431	575	863	1150	1438	1725

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



Initial climb clearance 4000

**ROUTING**

(800+) - DF16~ (K220-) - DF2~~ (K250-) - PIIIX (K250-) - VETUX (FL090) - RUDUS - MABOB - TESGA - TOBAK.

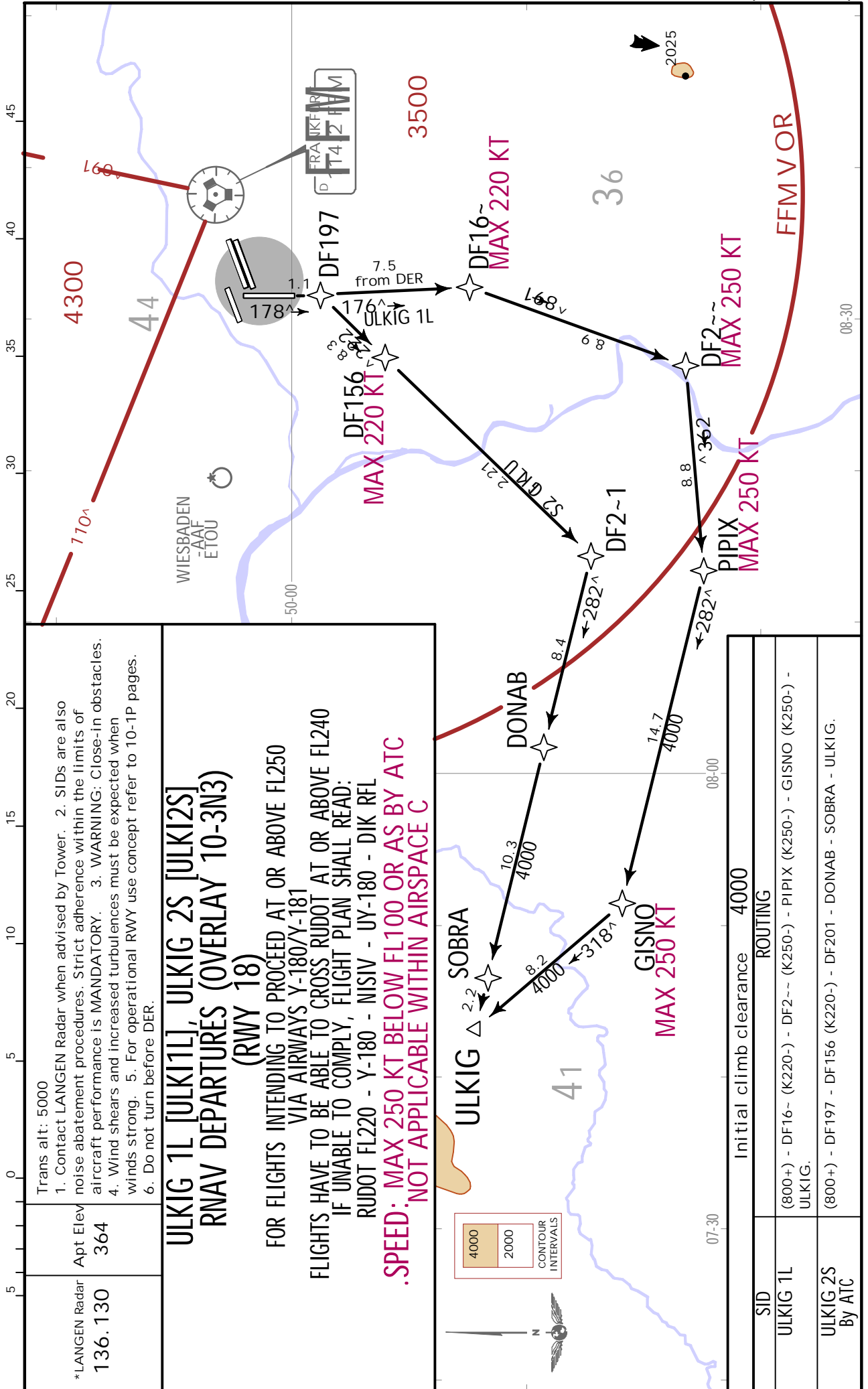
**EDDF/FRA**  
FRANKFURT/MAIN

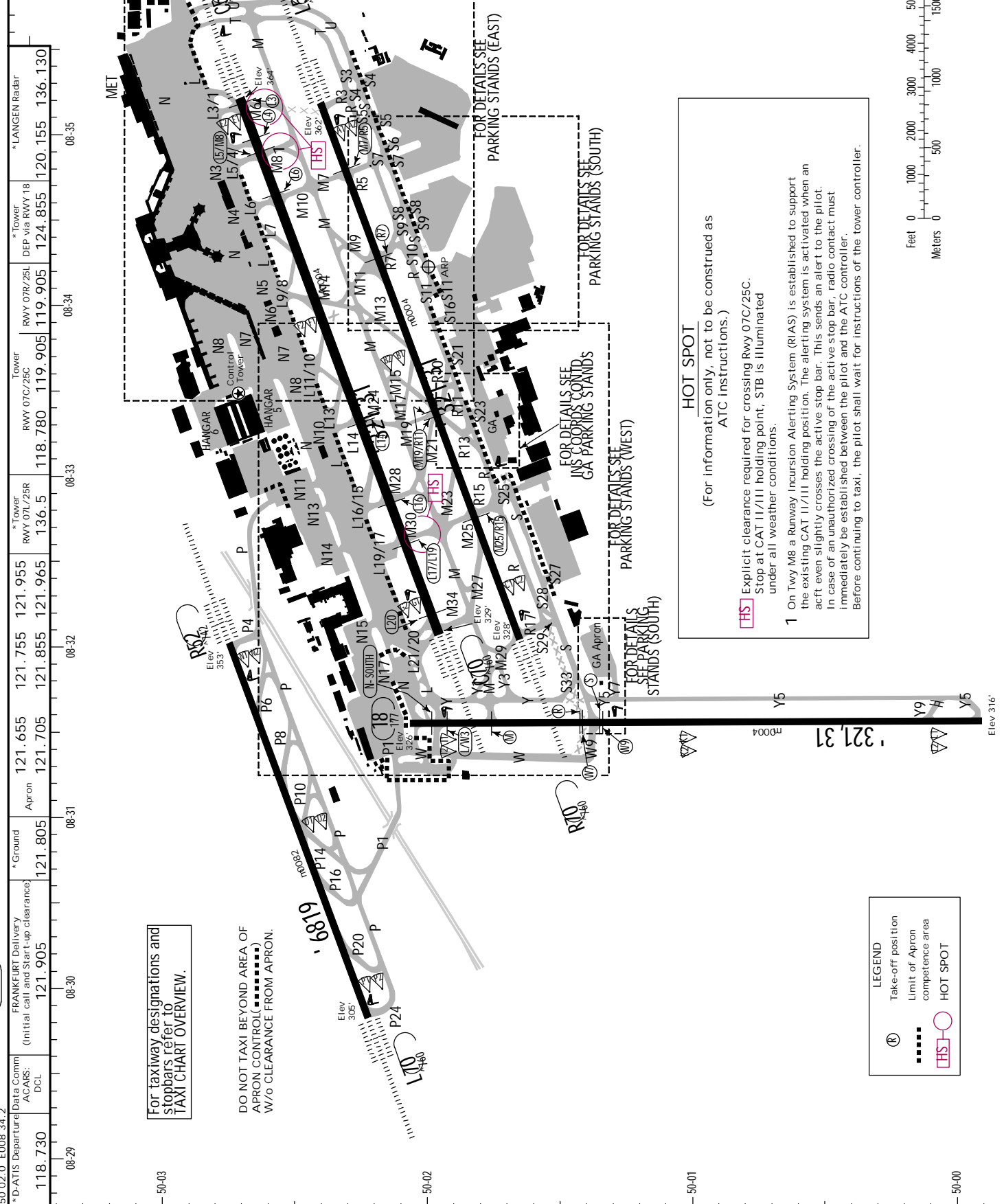
29 OCT 21

10-3X7

Eff.4.Nov.

**JEPPESSEN FRANKFURT/MAIN, GERMANY**  
.RNAV.SID.(OVERLAY).





For taxiway designations and stopbars refer to TAXI CHART OVERVIEW.

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

**LEGEND**

- Take-off position
- Limit of Apron competence area
- HOT SPOT

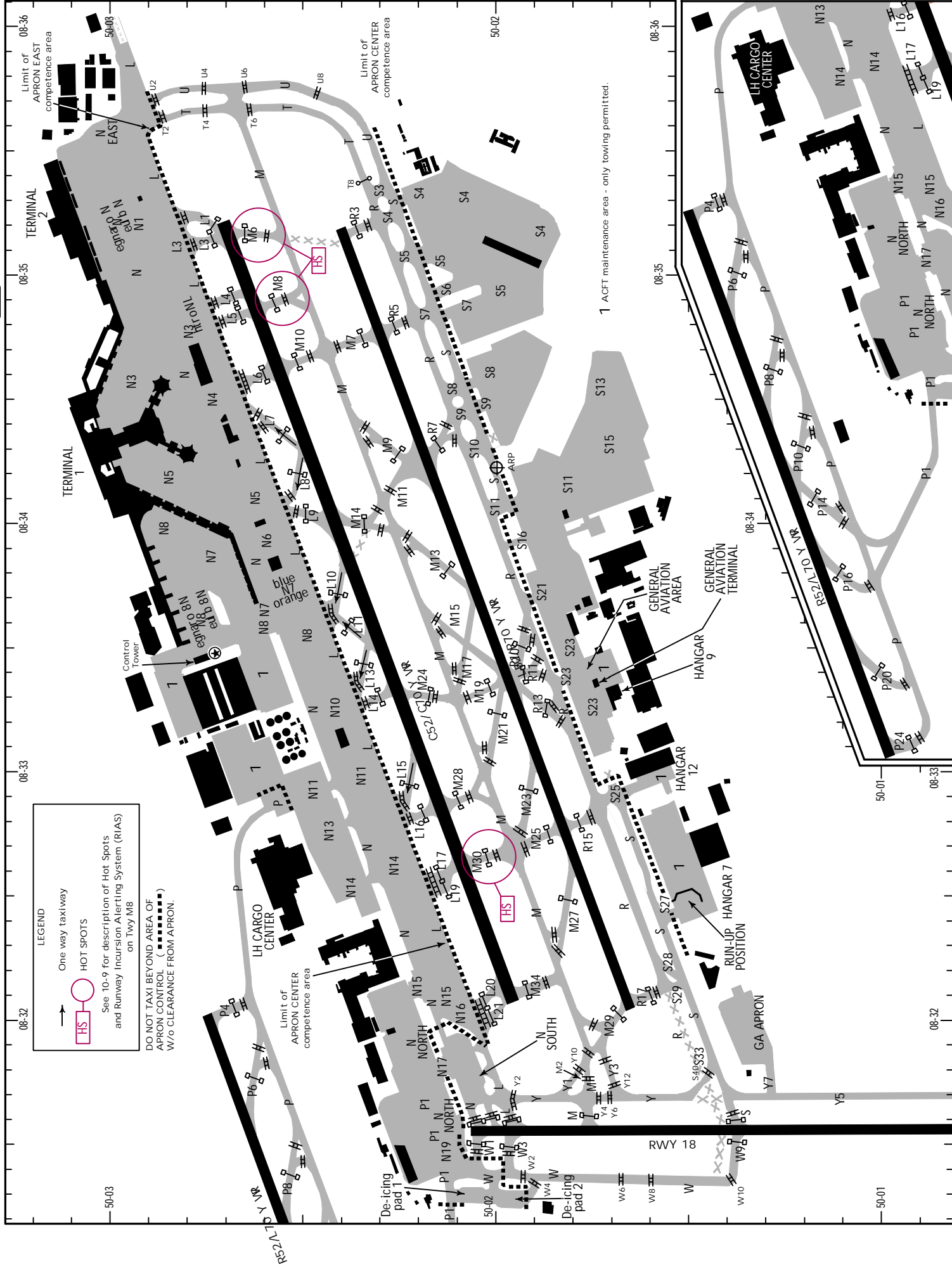
**HOT SPOT**  
(For information only, not to be construed as ATC instructions.)

**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 acft even 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.



118.730	08-29	121.805	08-31	121.655	08-32	121.755	08-32	121.955	08-33	118.780	08-33	119.905	08-34	119.905	08-34	124.855	08-35	120.155	08-35	136.130	08-36
*D-ATIS Departure/Arrival Data Comm		*Ground		*Tower		*Tower		*Tower		*Tower		*Tower		*Tower		*Tower		*Tower		*Tower	
118.730		121.805		121.655		121.755		121.955		118.780		119.905		119.905		124.855		120.155		136.130	
ACARS: DCL		APRON		RWY 07C/25C		RWY 07L/25R		RWY 07R/25L		RWY 07C/25C		RWY 07L/25R		RWY 07R/25L		RWY 07C/25C		RWY 07L/25R		RWY 07R/25L	
118.730		121.805		121.655		121.755		121.955		118.780		119.905		119.905		124.855		120.155		136.130	





**LEGEND**

- One way taxiway
- HOT SPOTS

See 10-9 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.

1 ACFT maintenance area - only towing permitted.

EDDF/FRA

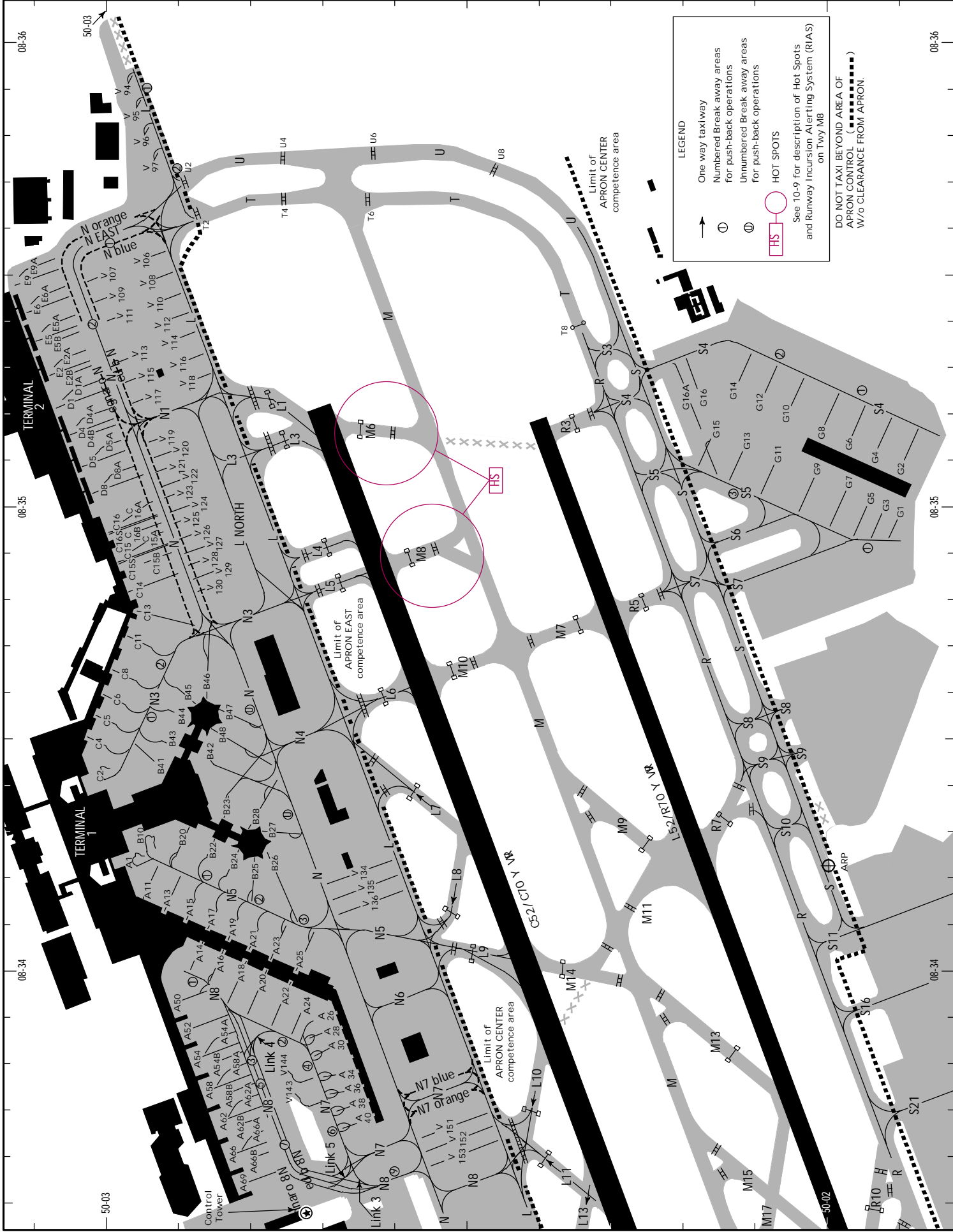
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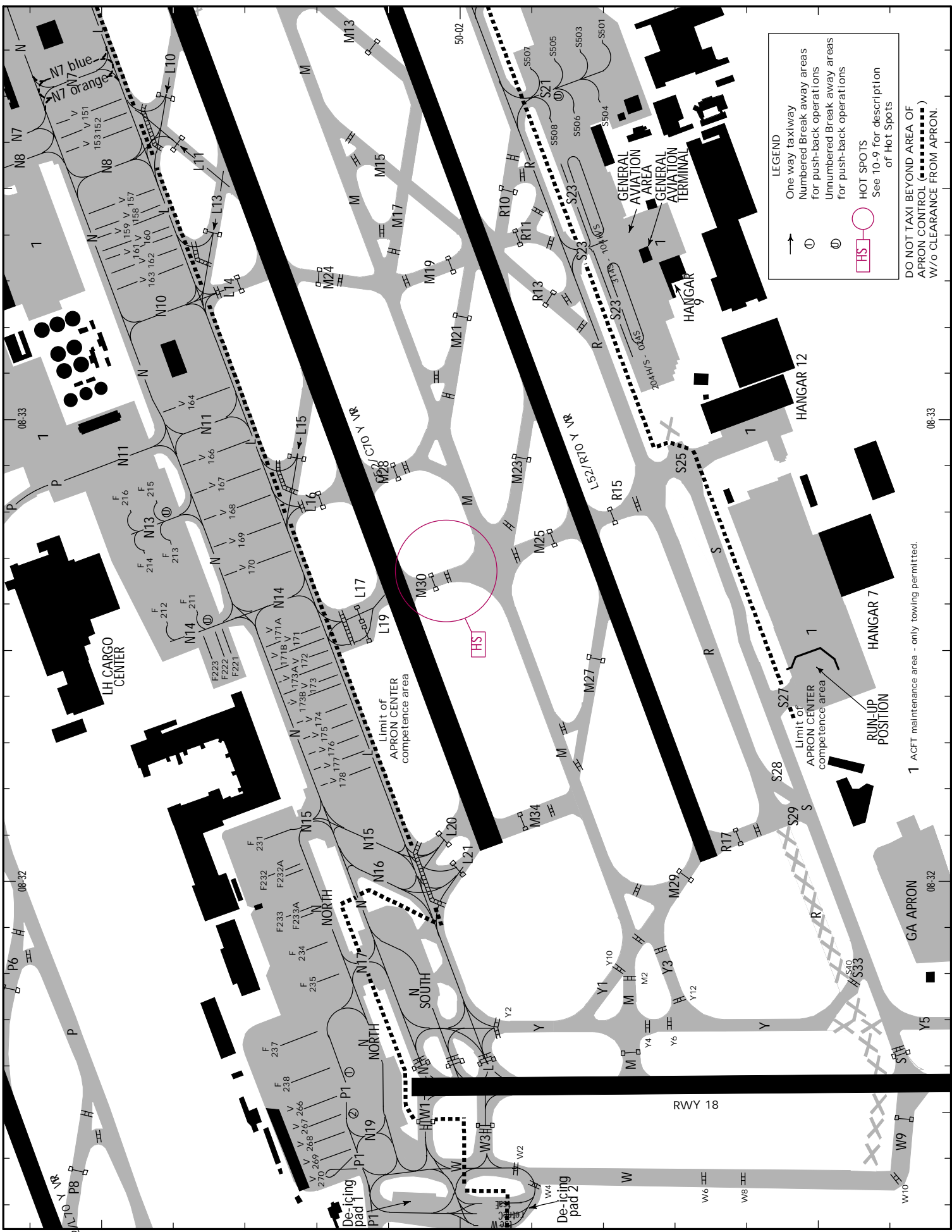
15 OCT 21

10-9A1

FRANKFURT/MAIN

ADDITIONAL RUNWAY INFORMATION							
RWY	Landing	USABLE LENGTHS	LANDING BEYOND		TAKE-OFF	WIDTH	
			Threshold	Glide Slope			
07L	HIRL 1 CL 2 ALSF-II TDZ REIL PAPI-L 3 4 RVR			8215' 2504m	NA	148'	45m
25R	HIRL 1 CL 2 ALSF-II TDZ REIL PAPI-R 3 5 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 spacing 60m. 2 spacing 15m. 3 (angle 3.0°/3.2°) 4 HST-P8 & P10 5 HST-P16 & P20							
07C	HIRL 6 CL 7 ALSF-II TDZ REIL PAPI-L (3.0°) 8 RVR			11,968' 3648m	O	197'	60m
25C	HIRL 6 CL 7 ALSF-II TDZ REIL PAPI-L (3.0°) 9 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. 6 spacing 60m. 7 spacing 15m. 8 HST-L11 & L7 9 HST-L8, L10, L13 & L15 O TAKE-OFF RUN AVAILABLE <u>RWY 07C:</u> From rwy head 13,123' (4000m) position L20 12,927' (3940m) position L17/L19/M30 10,866' (3312m) position L16/M28 9882' (3012m) position M24 8018' (2444m) position L14 7913' (2412m) <u>RWY 25C:</u> 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	HIRL ! CL " ALSF-II TDZ REIL PAPI-L (3.0°) # RVR			12,090' 3685m	%	148'	45m
25L	HIRL ! CL " ALSF-II TDZ REIL PAPI-L (3.0°) \$ 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. ! spacing 60m. " spacing 15m. # HST-M15, M13, M9 & R10 \$ HST-M17, M21, M23, M27 & R13 % TAKE-OFF RUN AVAILABLE <u>RWY 07R:</u> From rwy head 13,123' (4000m) position M25/R15 10,121' (3085m) position M19/R11 7644' (2330m) <u>RWY 25L:</u> From rwy head 13,123' (4000m) position M7/R5 11,463' (3494m) position R7 9423' (2872m) position M19 5577' (1700m)							
18	HIRL (60m) CL (15m)	RVR	NA		&	148'	45m
& TAKE-OFF RUN AVAILABLE <u>RWY 18:</u> 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)							
.Standard. TAKE-OFF							
Rwys 07C/R, 18, 25L/C Low Visibility Take-off				Rwys 07C/R, 18, 25L/C			
1	HIRL, CL & relevant RVR	RL, CL & relevant RVR	RL & CL	Day: RL & RCLM Night: RL or CL	Day: RL or RCLM Night: RL or CL	Adequate vis ref (Day only)	
A							
B	TDZ, MID, RO	TDZ, MID, RO		RVR 300m	400m	500m	
C	RVR 125m	RVR 150m	RVR 200m				
D							
1 RWY 07C/R, 25L/C :RVR 75m with approved guidance system or HUD/HUDLS.							





**LEGEND**

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

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

1 ACFT maintenance area - only towing permitted.

RUN-UP POSITION

Limit of APRON CENTER competence area

Limit of APRON CENTER competence area

HANGAR 7

HANGAR 12

HANGAR 1

GA APRON

LH CARGO CENTER

GENERAL AVIATION AREA

GENERAL AVIATION TERMINAL

HANGAR

De-icing pad

De-icing pad 2

W10

W9

W8

W6

W

RWY 18

Y5

Y

Y12

Y3

Y10

M2

M

M29

R17

S29

S28

S27

S

R

S

HANGAR 7

HANGAR 12

HANGAR

GENERAL AVIATION AREA

GENERAL AVIATION TERMINAL

S500

S504

S503

S505

S507

S21

S23

S23

S23

S23

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EDDF/FRA



JEPPESSEN FRANKFURT/MAIN, GERMANY

FRANKFURT/MAIN

INS COORDINATES			
STAND No.	COORDINATES	STAND No.	COORDINATES
A1	N50 02.9 E008 34.3	F238	N50 02.2 E008 31.6
A11	N50 02.9 E008 34.2	G1	N50 01.9 E008 35.0
A13 thru A15	N50 02.9 E008 34.1	G2	N50 01.9 E008 35.1
A16	N50 02.8 E008 34.1	G3	N50 01.9 E008 35.0
A17	N50 02.9 E008 34.1	G4	N50 01.9 E008 35.1
A18	N50 02.8 E008 34.0	G5	N50 01.9 E008 35.0
A19	N50 02.8 E008 34.1	G6, G7	N50 02.0 E008 35.1
A20	N50 02.8 E008 34.0	G8	N50 02.0 E008 35.2
A21	N50 02.8 E008 34.1	G9	N50 02.0 E008 35.1
A22	N50 02.7 E008 34.0	G10	N50 02.1 E008 35.2
A23	N50 02.8 E008 34.0	G11	N50 02.1 E008 35.1
A24, A25	N50 02.7 E008 34.0	G12, G13	N50 02.1 E008 35.2
A26 thru A30	N50 02.7 E008 33.9	G14	N50 02.1 E008 35.3
A34, A36	N50 02.6 E008 33.8	G15	N50 02.1 E008 35.2
A38, A40	N50 02.6 E008 33.7	G16	N50 02.2 E008 35.2
A50, A52	N50 02.9 E008 33.9	G16A	N50 02.2 E008 35.3
A54 thru A58	N50 02.9 E008 33.8	H2	N50 01.9 E008 34.9
A58A	N50 02.8 E008 33.8	H4	N50 01.9 E008 34.8
A58B thru A62B	N50 02.8 E008 33.7	H6	N50 02.0 E008 34.8
A66 thru A69	N50 02.8 E008 33.6	H14	N50 02.1 E008 34.8
B10, B20	N50 02.9 E008 34.3	J2A thru J2B	N50 01.9 E008 34.6
B22 thru B28	N50 02.8 E008 34.3	J4 thru J6B	N50 01.9 E008 34.5
B41 thru B43	N50 02.9 E008 34.5	J8	N50 02.0 E008 34.4
B44 thru B46	N50 02.9 E008 34.6	K2	N50 01.7 E008 34.7
B47	N50 02.8 E008 34.6	K4	N50 01.7 E008 34.6
B48	N50 02.9 E008 34.5	K6, K8	N50 01.6 E008 34.5
C2, C4	N50 03.0 E008 34.5	K10	N50 01.6 E008 34.4
C5, C6	N50 03.0 E008 34.6	S401, S402	N50 01.8 E008 33.4
C8, C11	N50 03.0 E008 34.7	S403	N50 01.8 E008 33.5
C13, C14	N50 03.0 E008 34.8	S404	N50 01.8 E008 33.3
C15 thru C15S	N50 03.0 E008 34.9	S405	N50 01.8 E008 33.5
C16 thru C16S	N50 03.0 E008 35.0	S406	N50 01.8 E008 33.3
D1	N50 03.1 E008 35.2	S407	N50 01.8 E008 33.5
D1A thru D4B	N50 03.0 E008 35.2	S408	N50 01.8 E008 33.3
D5, D5A	N50 03.0 E008 35.1	S409	N50 01.8 E008 33.6
D8	N50 03.0 E008 35.0	S410	N50 01.8 E008 33.3
D8A	N50 03.0 E008 35.1	S411	N50 01.8 E008 33.6
E2 thru E2B	N50 03.1 E008 35.3	S412	N50 01.7 E008 33.2
E5 thru E6A	N50 03.1 E008 35.4	S413	N50 01.8 E008 33.6
E9, E9A	N50 03.1 E008 35.5	S414 thru S418	N50 01.7 E008 33.2
F211	N50 02.4 E008 32.7	S420	N50 01.7 E008 33.1
F212	N50 02.4 E008 32.6	S501, S503	N50 01.8 E008 33.9
F213, F214	N50 02.4 E008 32.7	S504	N50 01.8 E008 33.7
F215	N50 02.4 E008 32.9	S505	N50 01.9 E008 33.8
F216	N50 02.5 E008 32.9	S506	N50 01.8 E008 33.6
F221, F222	N50 02.3 E008 32.5	S507	N50 01.9 E008 33.8
F223	N50 02.3 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		
F237	N50 02.3 E008 31.7		

EDDF/FRA



JEPPESSEN

FRANKFURT/MAIN, GERMANY

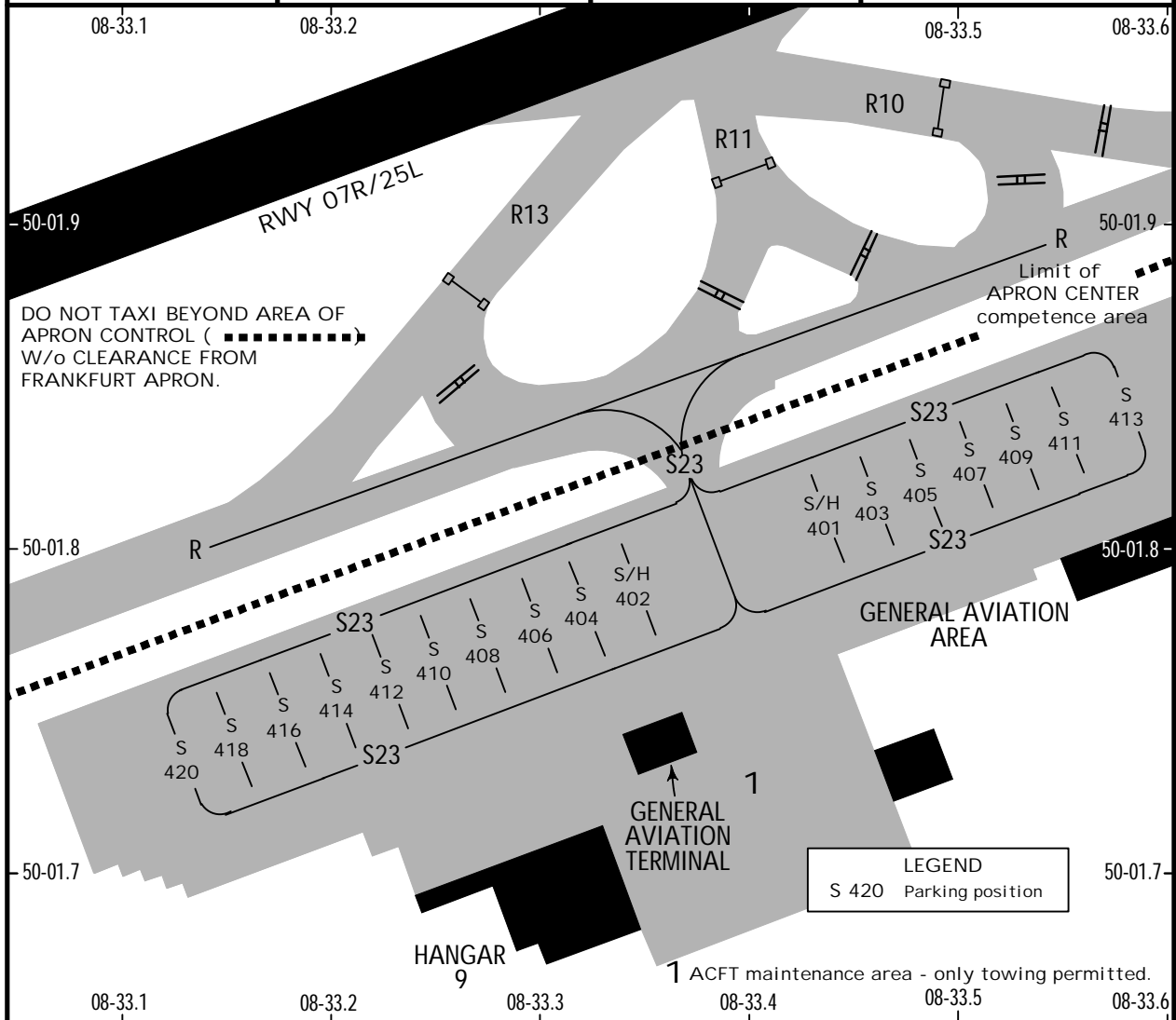
16 SEP 22

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		



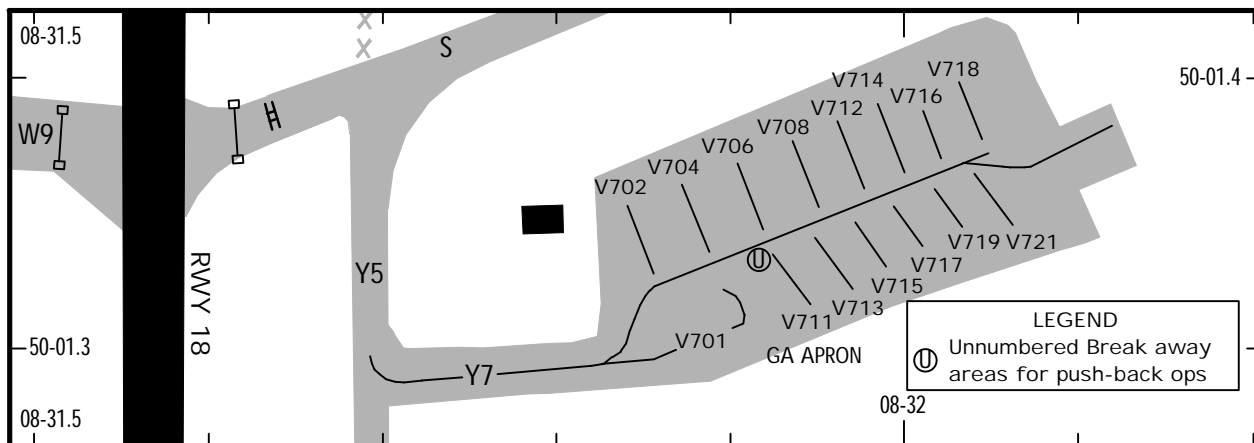
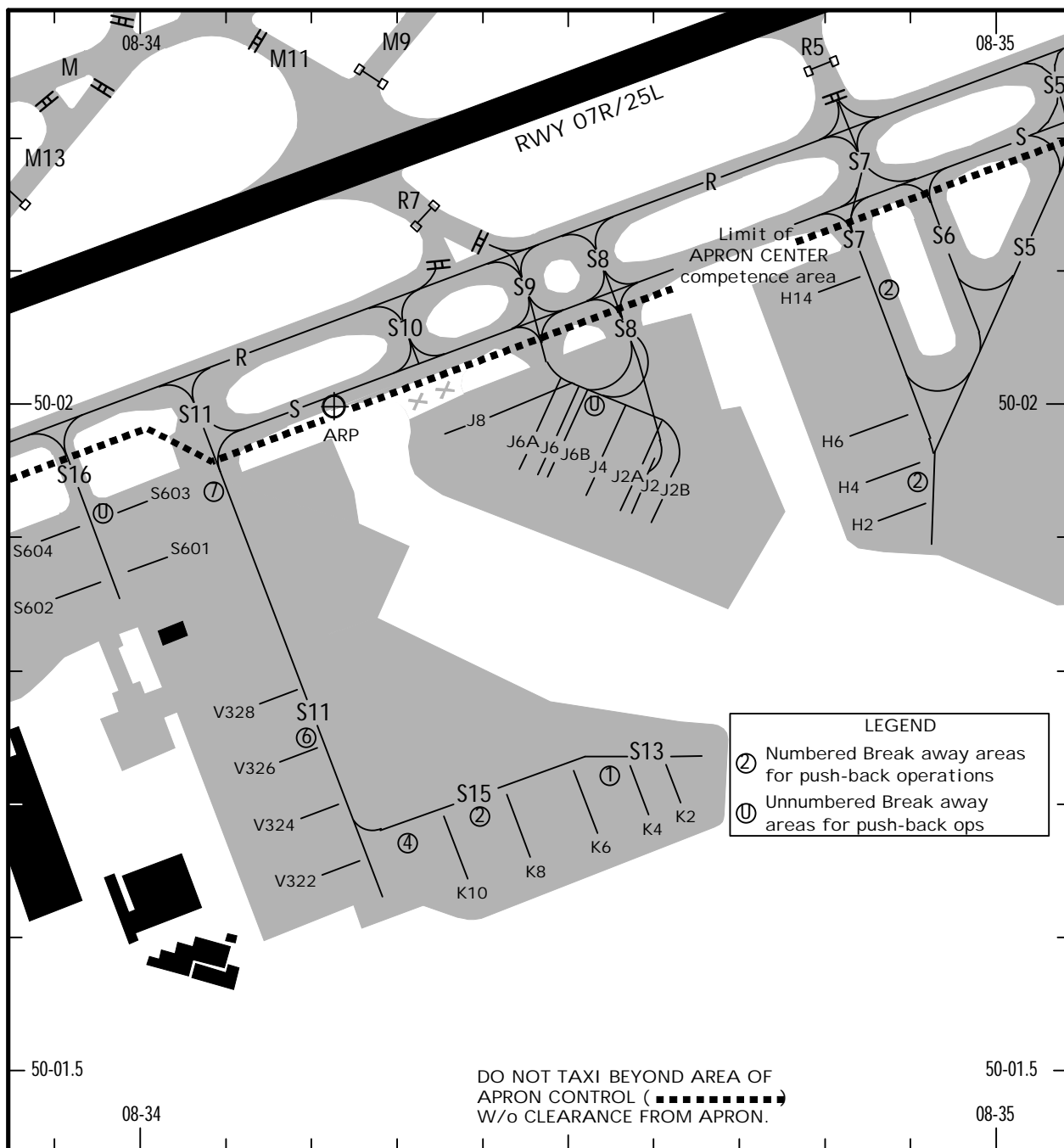


# EDDF/FRA

# JEPPESSEN FRANKFURT/MAIN, GERMANY

24 JUN 22 (10-9E1)

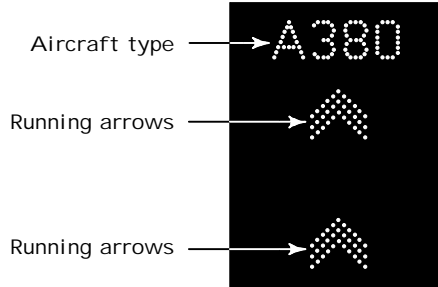
FRANKFURT/MAIN



# ADVANCED VISUAL DOCKING GUIDANCE SYSTEM (A-VDGS)

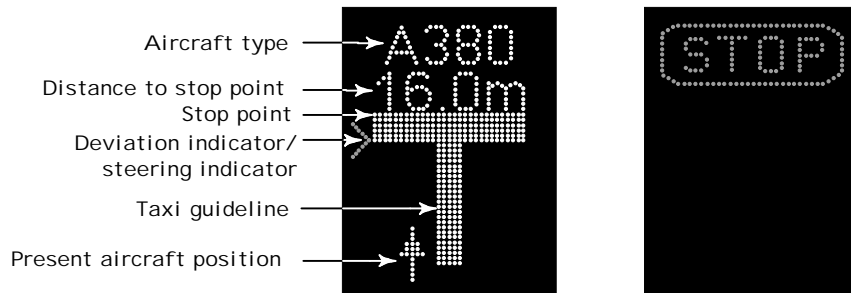
## DISPLAY OF IMAGES AND FUNCTIONS ON THE PANEL

Examples:



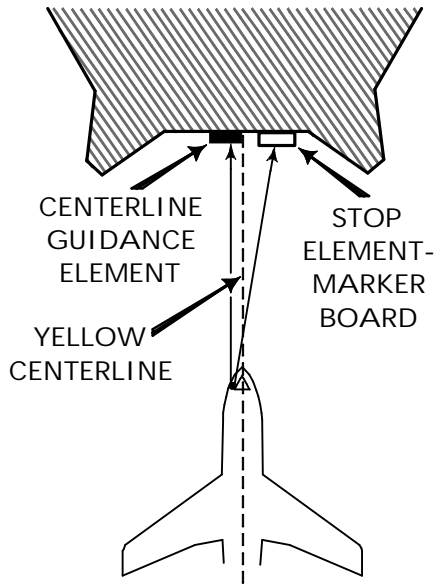
### Safety Information:

- 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

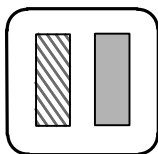
The system is aligned with the LEFT hand pilot seat only. In case of AGNIS failure, nose-in positioning will be guided by marshaller.

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

## CENTERLINE GUIDANCE ELEMENT

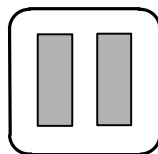
Approach the parking position along the yellow centerline so that both vertical slots in the Centerline Guidance Element show GREEN. Adjustments to the left or right shall always be made towards the GREEN.

RED GREEN



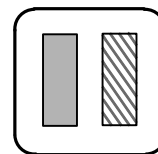
LEFT of centerline. Turn towards GREEN. (RIGHT)

GREEN GREEN



Aircraft on centerline.

GREEN RED



RIGHT of centerline. Turn towards GREEN. (LEFT)

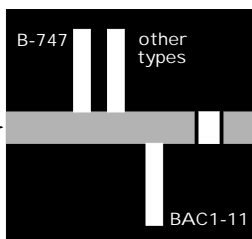
## STOP ELEMENT - MARKER BOARD

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.

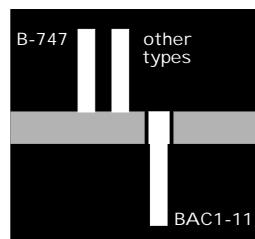
## CAUTION

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.

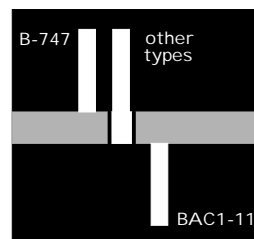
## AGNIS CENTRE LINE GUIDANCE STOP ELEMENT - MARKER BOARD



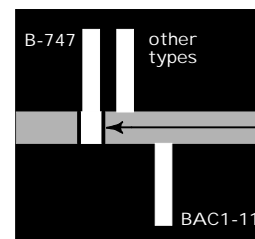
All types continue taxiing.



BAC 1-11 stop. Other types and B-747 continue taxiing.



Other types stop. B-747 continue taxiing.



B-747 stop.

# EDDF/FRA

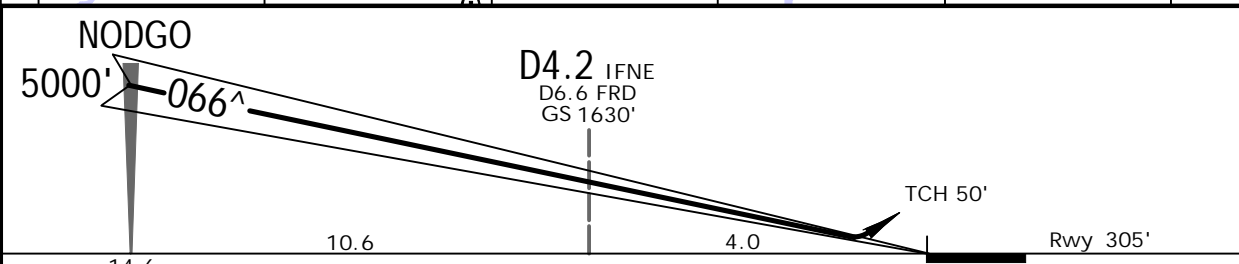
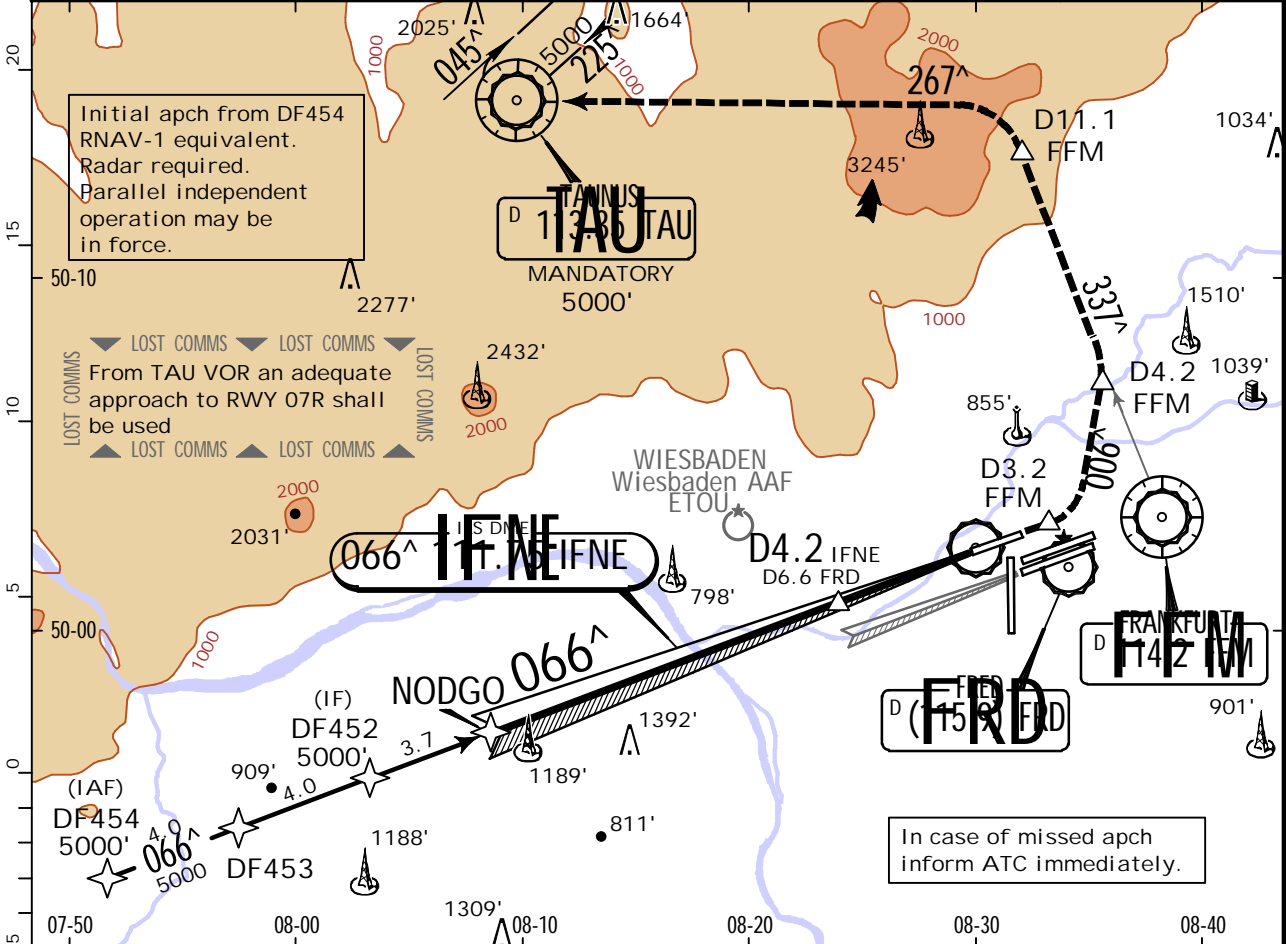
## FRANKFURT/MAIN

29 OCT 21  
 .Eff. 4. Nov. (11-1)

# JEPPESSEN FRANKFURT/MAIN, GERMANY

## MISSED APCH CLIMB GRAD MIM 4.6% ILS 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
LOC IFNE 111.75	Final Apch Crs 066 <sup>^</sup>	NODGO 5000' (4695')	DA(H) Refer to Minimums	Apt Elev 364'	Rwy 305'	<p>MSA FFM VOR</p>
MISSED APCH: Climb STRAIGHT AHEAD. At D3.2 FFM turn LEFT onto 006 <sup>^</sup> . At D4.2 FFM turn LEFT to intercept R-337 FFM. At D11.1 FFM turn LEFT to intercept R-087 inbound TAU VOR climbing to 5000'.						
Alt Set: hPa (IN on req)    Rwy Elev: 11 hPa    Trans level: By ATC    Trans alt: 5000'						
DME required.						



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	D3.2 FFM	006 <sup>^</sup> LT	D4.2 FFM
GS	3.00 <sup>^</sup>	372	478	531	637	849				

**.Standard.** STRAIGHT-IN LANDING RWY 07L  
 Missed apch climb gradient mim 4.6% up to 3500'  
 ABC: 505' (200')  
 DA(H) D: 512' (207')

FULL	IDZ or CL out	ALS out
------	---------------	---------

A			
B			
C	RVR 550m	RVR 550m 1	RVR 1200m
D			

1 RVR 750m when a Flight Director or Autopilot or HUD to DA is not used.

# EDDF/FRA

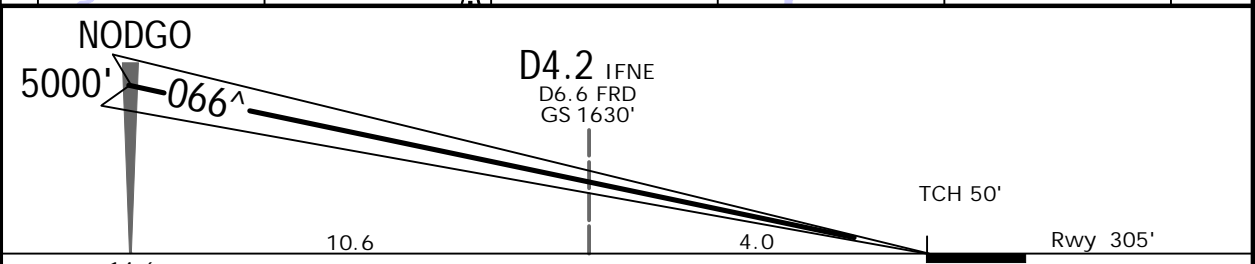
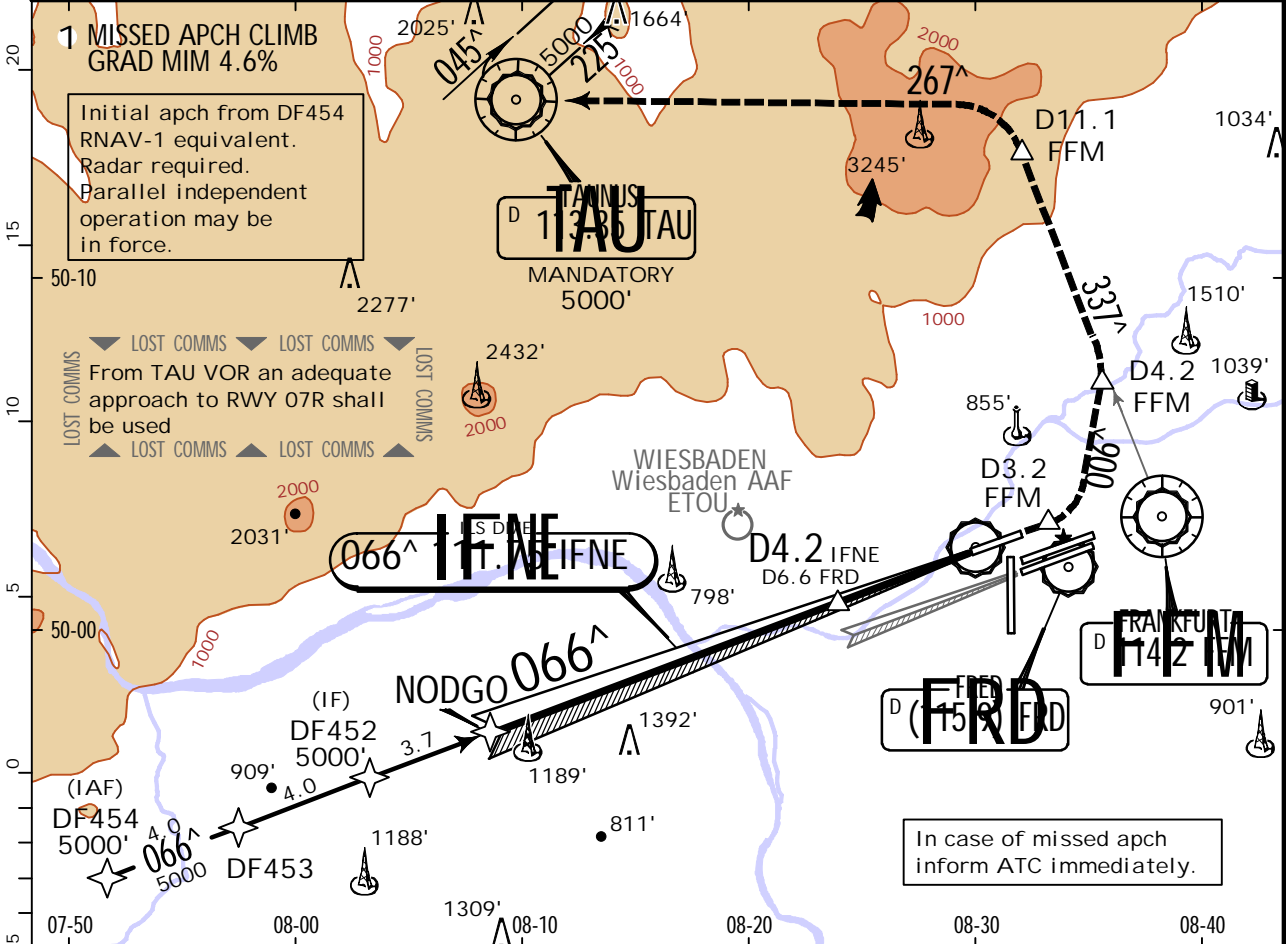
## FRANKFURT/MAIN

**JEPPESEN**  
29 OCT 21  
.Eff. 4. Nov. (11-1A)

# FRANKFURT/MAIN, GERMANY

## 1 CAT II/III ILS 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
LOC IFNE 111.75	Final Apch Crs 066 <sup>^</sup>	NODGO 5000' (4695')	CAT IIIB, IIIA & II ILS Refer to Minimums	Apt Elev 364' Rwy 305'		
MISSED APCH: Climb STRAIGHT AHEAD. At D3.2 FFM turn LEFT onto 006 <sup>^</sup> . At D4.2 FFM turn LEFT to intercept R-337 FFM. At D11.1 FFM turn LEFT to intercept R-087 inbound TAU VOR climbing to 5000'.						MSA FFM VOR
Alt Set: hPa(IN on req) Rwy Elev: 11 hPa Trans level: By ATC Trans alt: 5000'						
1. DME required. 2. Special Aircrew & Aircraft Certification Required.						



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	D3.2 FFM	006 <sup>^</sup> LT	D4.2 FFM
GS	3.00 <sup>^</sup>	372	478	531	637	849				

Standard.				STRAIGHT-IN LANDING RWY 07L			
				Missed apch climb gradient mim 4.6% up to 3500'			
CAT IIIB ILS	CAT IIIA ILS	A: RA 99' DA(H) 405' (100')		CAT II ILS		D: RA 131' DA(H) 437' (132')	
	DH 50'	B: RA 105' DA(H) 411' (106')					
		C: RA 118' DA(H) 424' (119')					
RVR 75m	RVR 200m	RVR 300m		RVR 400m			

# EDDF/FRA

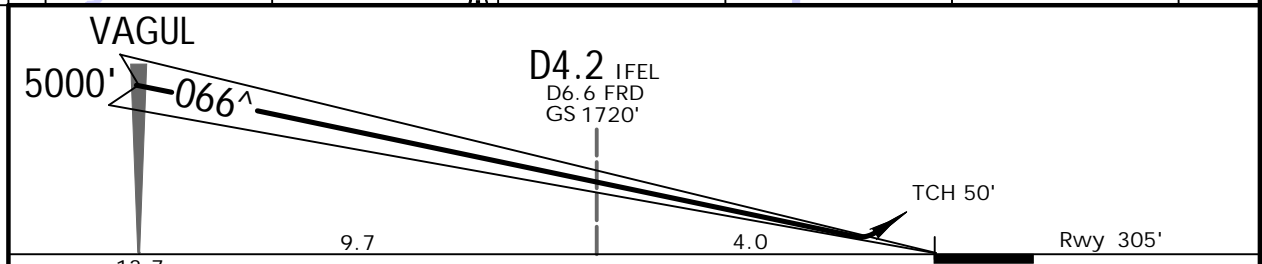
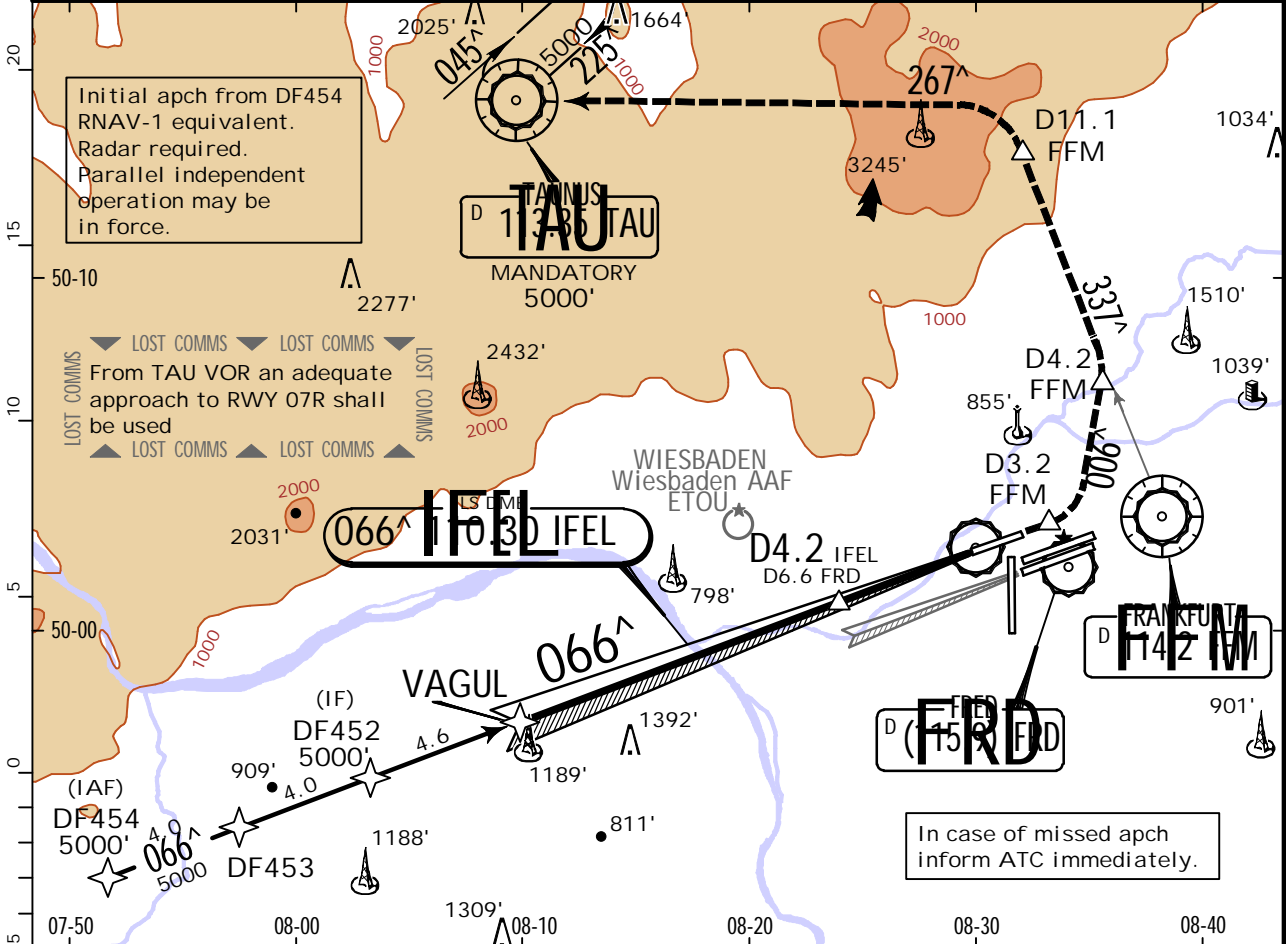
## FRANKFURT/MAIN

29 OCT 21  
 .Eff. 4. Nov. (11-2)

# JEPPESSEN FRANKFURT/MAIN, GERMANY

## MISSED APCH CLIMB GRAD MIM 4.6% ILS 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
LOC IFEL 110.30	Final Apch Crs 066 <sup>^</sup>	VAGUL 5000' (4695')	DA(H) Refer to Minimums	Apt Elev 364' Rwy 305'	<p>MSA FFM VOR</p>
MISSED APCH: Climb STRAIGHT AHEAD. At D3.2 FFM turn LEFT onto 006 <sup>^</sup> . At D4.2 FFM turn LEFT to intercept R-337 FFM. At D11.1 FFM turn LEFT to intercept R-087 inbound TAU VOR climbing to 5000'.					
Alt Set: hPa(IN on req) Rwy Elev: 11 hPa Trans level: By ATC Trans alt: 5000' DME required.					



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	D3.2 FFM ↑	006 <sup>^</sup> ← LT	D4.2 FFM
GS	3.20 <sup>^</sup>	396	510	566	679	906				

Standard. STRAIGHT-IN LANDING RWY 07L  
 ILS  
 Missed apch climb gradient mim 4.6% up to 3500'

ABC: 505' (200°)  
 DA(H) D: 512' (207°)

FULL TDZ or CL out ALS out

A			
B			
C	RVR 550m	RVR 550m 1	RVR 1200m
D			

1 RVR 750m when a Flight Director or Autopilot or HUD to DA is not used.



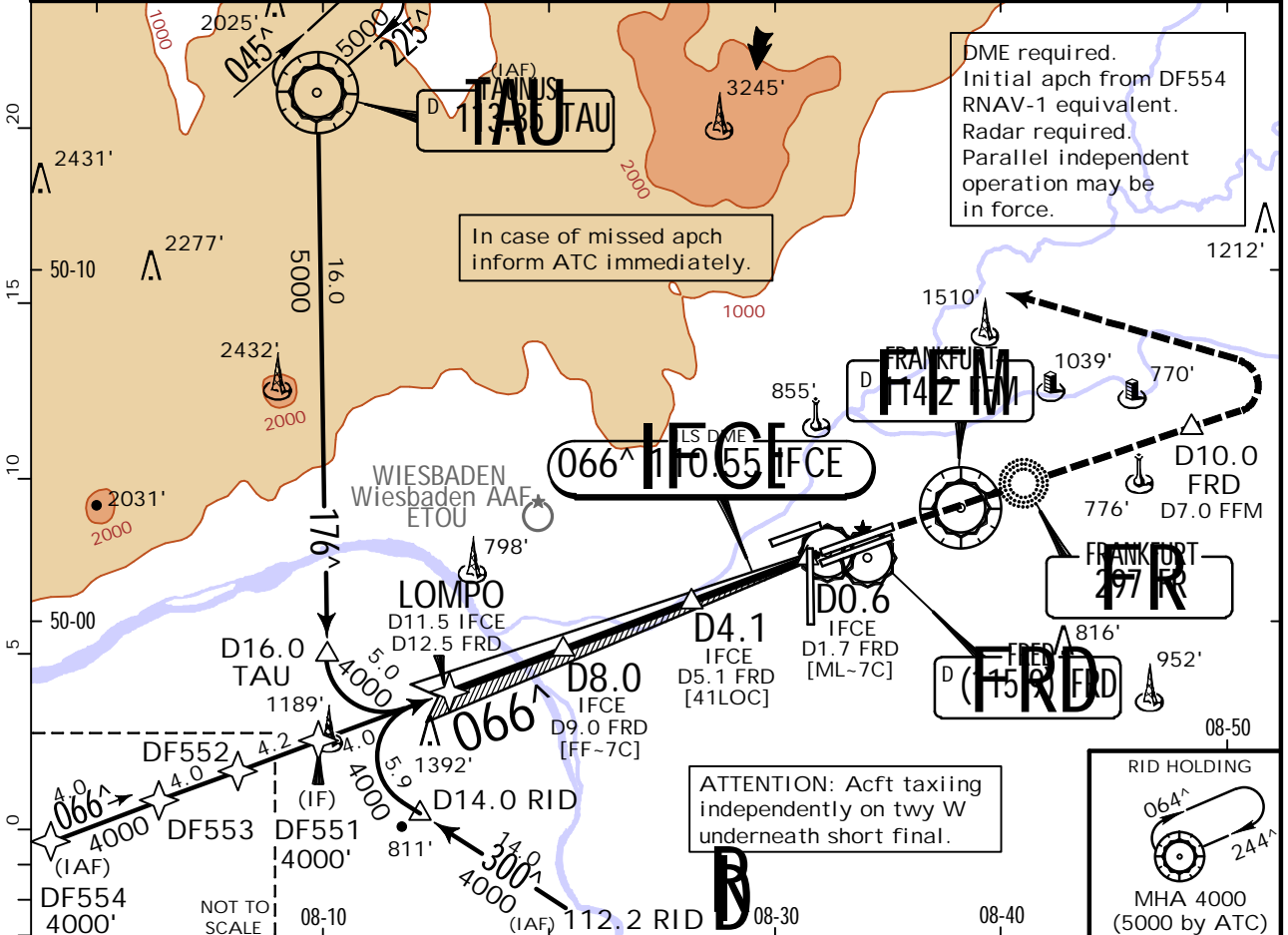
# EDDF/FRA

## FRANKFURT/MAIN

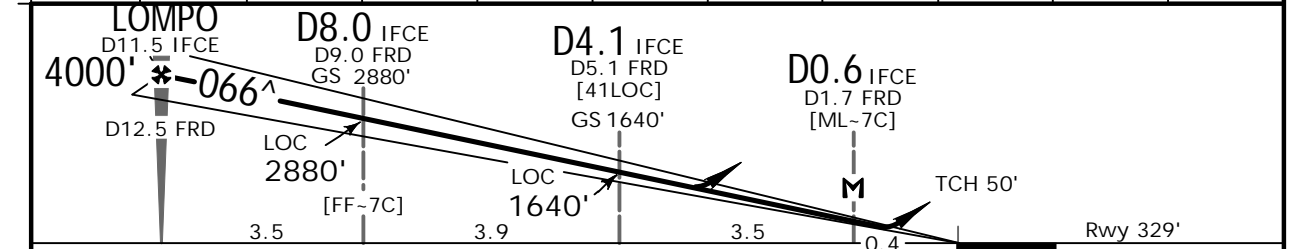
JEPPesen FRANKFURT/MAIN, GERMANY  
29 OCT 21 (11-3). Eff. 4. Nov.

# ILS or LOC 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 <sup>^</sup>	LOMPO 4000' (3671')	ILS DA(H) 529' (200')	Apt Elev 364' Rwy 329'	
MISSED APCH: Climb STRAIGHT AHEAD via FR Lctr to D10.0 FRD/ D7.0 FFM or 5000', whichever is later, then turn LEFT to TAU VOR maintain 5000'.					
Alt Set: hPa (IN on req)		Rwy Elev: 12 hPa	Trans level: By ATC	Trans alt: 5000'	MSA FFM VOR



LOC (GS out)	IFCE DME	11.0	10.0	9.0	7.0	6.0	5.0	4.0	3.0	2.0
ALTITUDE		3830'	3520'	3200'	2560'	2240'	1920'	1610'	1290'	970'



Gnd speed-Kts	70	90	100	120	140	160	ALSIF-II REIL PAPI	D10.0 FRD 5000'	D7.0 FFM 5000'	via FR 297
ILS GS or LOC Descent Angle	3.00 <sup>^</sup>	372	478	531	637	849		↑ whichever is later	↑	
MAP at D0.6 IFCE/D1.7 FRD										

Standard.				STRAIGHT-IN LANDING RWY 07C			
ILS				LOC (GS out)			
DA(H) 529' (200')				CDFA			
FULL				IDZ or CL out		ALS out	
RVR 550m				RVR 550m 1		RVR 1200m	
RVR 550m				RVR 550m 1		RVR 1200m	
RVR 550m				RVR 550m 1		RVR 1200m	
RVR 550m				RVR 550m 1		RVR 1200m	



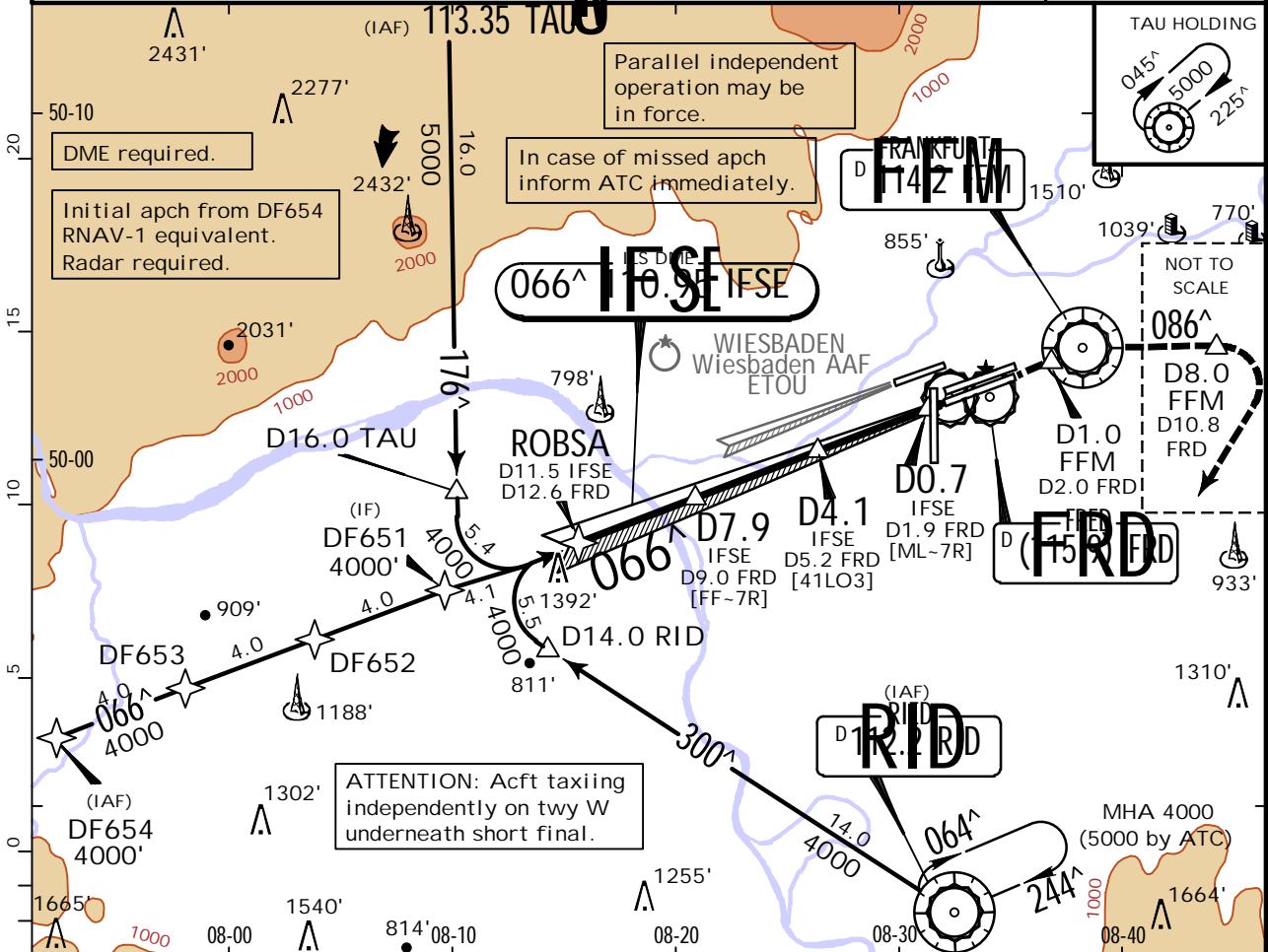
# EDDF/FRA

## FRANKFURT/MAIN

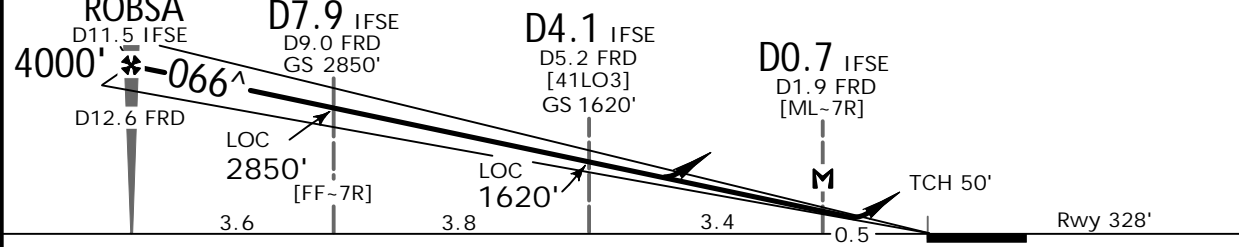
JEPPESSEN FRANKFURT/MAIN, GERMANY  
 29 OCT 21 (11-4). Eff. 4. Nov.

# ILS or LOC 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 <sup>^</sup>	ROBSA 4000' (3672')	ILS DA(H) 528' (200')	Apt Elev 364'	Rwy 328'		
MISSED APCH: Climb STRAIGHT AHEAD to D1.0 inbound FFM/D2.0 FRD, then turn RIGHT to intercept R-086 FFM outbound to D8.0 FFM/D10.8 FRD or 5000', whichever is later, then turn RIGHT to RID VOR and maintain 5000'.							
Alt Set: hPa (IN on req)		Rwy Elev: 12 hPa	Trans level: By ATC		Trans alt: 5000'		MSA FFM VOR



LOC (GS out)	IFSE DME	11.0	10.0	9.0	8.0	7.0	6.0	5.0	3.0	2.0
	ALTITUDE	3830'	3510'	3190'	2870'	2560'	2240'	1920'	1280'	960'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI 	D1.0 inbound FFM D2.0 FRD
ILS GS or LOC Descent Angle	3.00 <sup>^</sup>	372	478	531	637	849		
MAP at D0.7 IFSE/D1.9 FRD								

Standard.			STRAIGHT-IN LANDING RWY 07R			LOC (GS out)	
ILS			ILS			CDFA	
DA(H) 528' (200')			DA(H) 810' (482')				
FULL		TDZ or CL out	ALS out		ALS out		
A			RVR 1500m				
B			RVR 1500m				
C	RVR 550m	RVR 550m 1	RVR 1200m		RVR 2300m		
D			RVR 1500m				

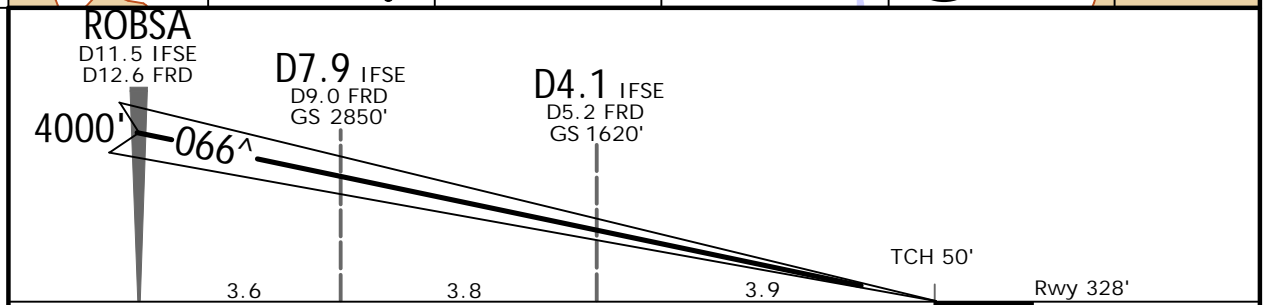
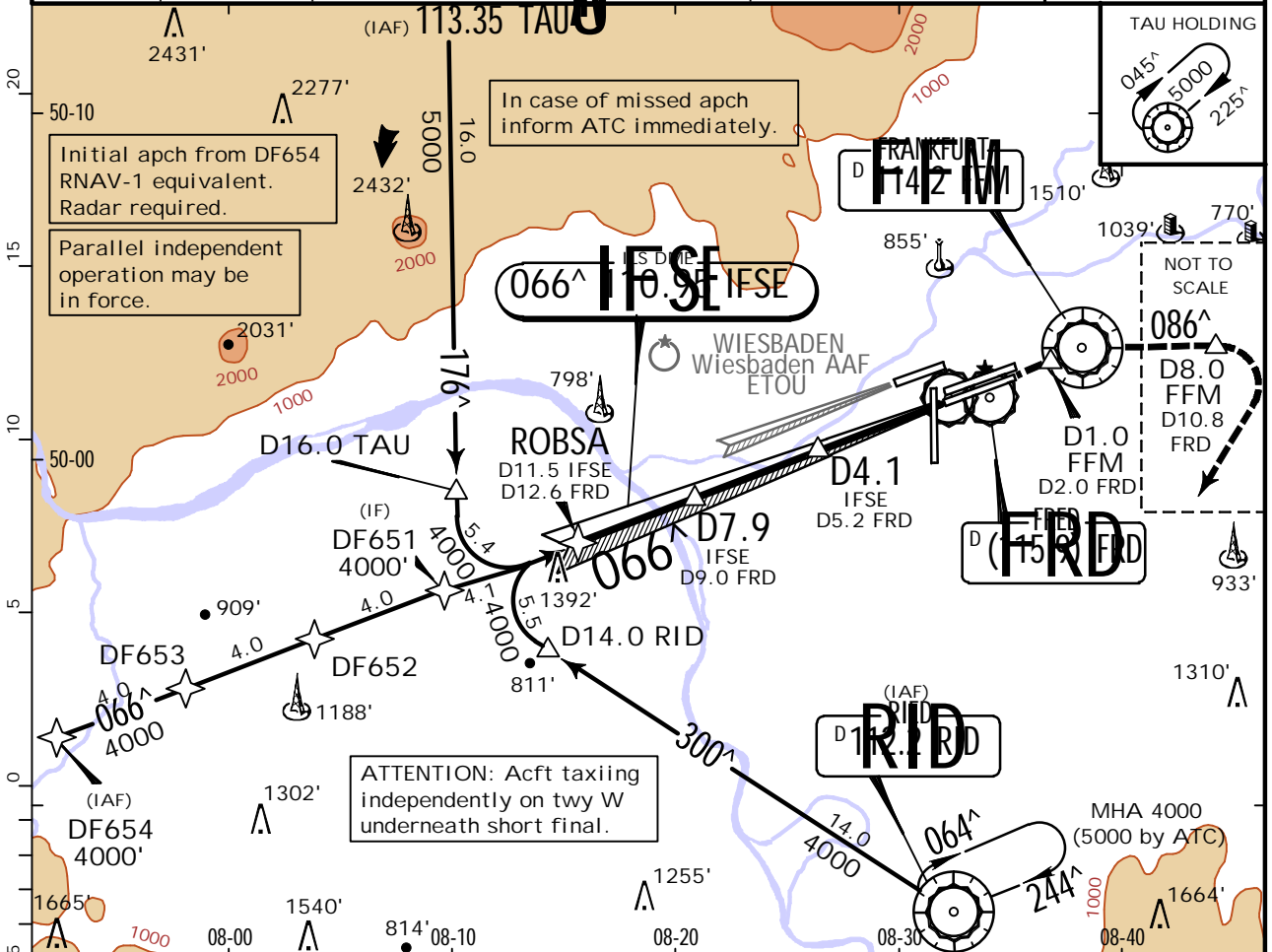
1 RVR 750m when a Flight Director or Autopilot or HUD to DA is not used.

# EDDF/FRA

## FRANKFURT/MAIN

**JEPESEN** FRANKFURT/MAIN, GERMANY  
 29 OCT 21 (11-4A) .Eff.4.Nov. 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 <sup>^</sup>	ROBSA 4000' (3672')	CAT IIIB, IIIA & II ILS Refer to Minimums	Apt Elev 364'	Rwy 328'		
MISSED APCH: Climb STRAIGHT AHEAD to D1.0 inbound FFM/D2.0 FRD, then turn RIGHT to intercept R-086 FFM outbound to D8.0 FFM/D10.8 FRD or 5000', whichever is later, then turn RIGHT to RID VOR and maintain 5000'.							MSA FFM VOR
Alt Set: hPa(IN on req) Rwy Elev: 12 hPa Trans level: By ATC Trans alt: 5000' 1. DME required. 2. Special Aircrew & Acft Certification Required.							



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	D1.0 inbound FFM D2.0 FRD
GS	3.00 <sup>^</sup>	372	478	531	637	849		

Standard. CAT IIIB ILS	STRAIGHT-IN LANDING RWY 07R CAT IIIA ILS	CAT II ILS RA 101' DA(H) 428' (100')
RVR 75m	DH 50' RVR 200m	RVR 300m

PANS OPS

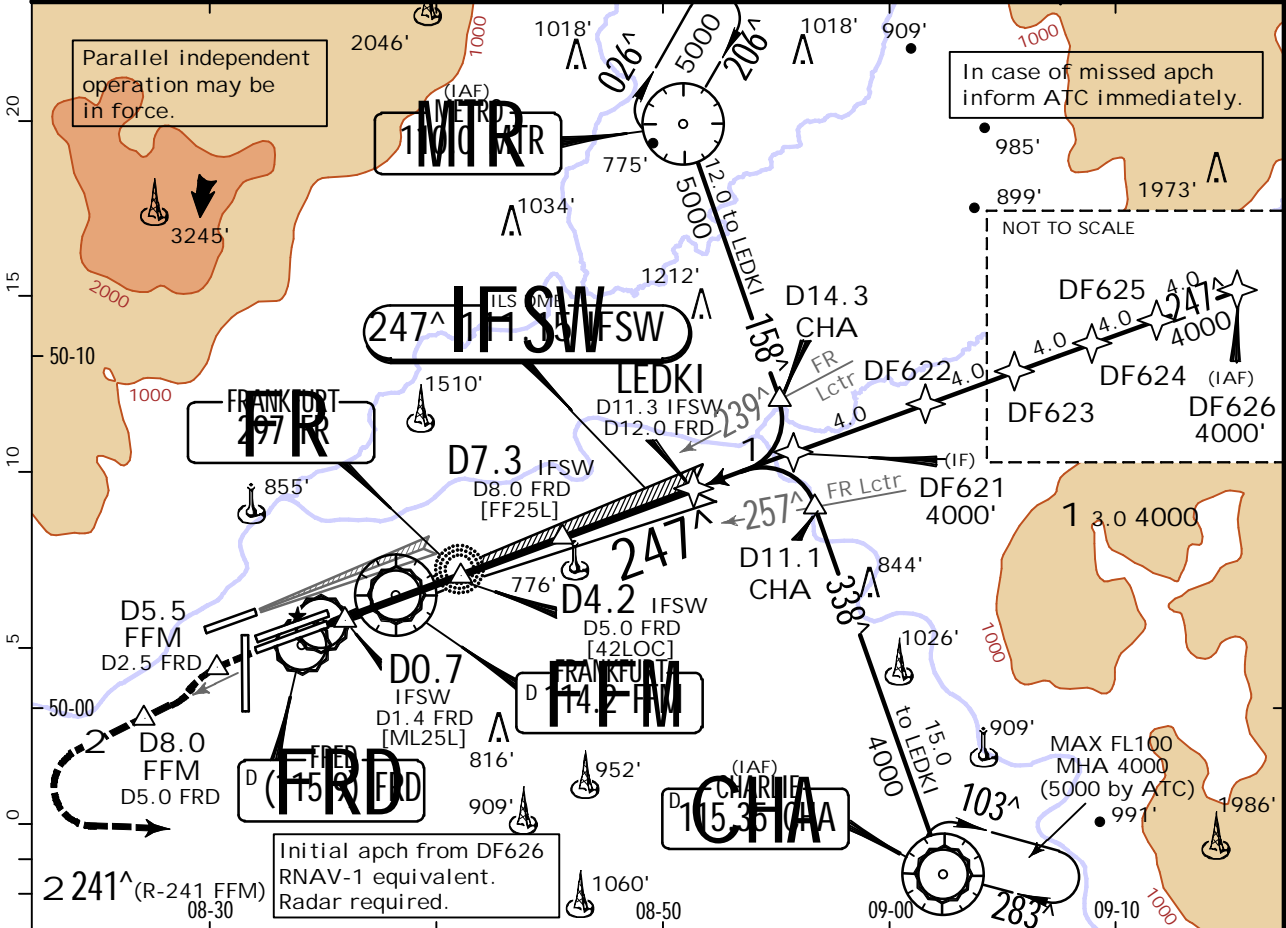
# EDDF/FRA

## FRANKFURT/MAIN

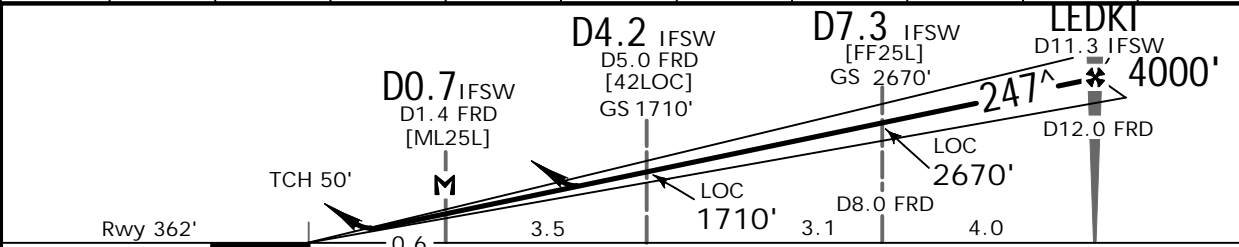
JEPPESSEN **FRANKFURT/MAIN, GERMANY**  
 29 OCT 21 (11-5). Eff. 4. Nov.

# ILS or LOC 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 <b>111.15</b>	Final Apch Crs <b>247<sup>^</sup></b>	LEDKI <b>4000'</b> (3638')	ILS DA(H) <b>562'</b> (200')	Apt Elev 364'	Rwy 362'		
<b>MISSED APCH:</b> Climb STRAIGHT AHEAD to D5.5 FFM/D2.5 FRD, then turn LEFT to intercept R-241 FFM. Then on R-241 FFM to D8.0 FFM/D5.0 FRD or 5000', whichever is later, then turn LEFT to CHA VOR and maintain 5000'.							MSA FFM VOR
Alt Set: hPa(IN on req) Rwy Elev: 13 hPa Trans level: By ATC Trans alt: 5000'							
1. DME required. 2. CAUTION: Independent taxiing acft on Twy U underneath short final.							



LOC (GS out)	IFSW DME	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
	ALTITUDE	990'	1310'	1630'	1950'	2270'	2590'	2900'	3220'	3540'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI 	D5.5 FFM D2.5 FRD 
ILS GS or LOC Descent Angle	3.00 <sup>^</sup>	372	478	531	637	743		
MAP at D0.7 IFSW/D1.4 FRD								

STRAIGHT-IN LANDING RWY 25L ILS 1 DA(H) <b>562'</b> (200')			LOC (GS out) CDFA DA/MDA(H) <b>820'</b> (458')	
FULL	IDZ or CL out	ALS out	ALS out	
A			RVR 1500m	
B			RVR 1500m	
C	RVR 550m	RVR 550m 2	RVR 1200m	RVR 1400m
D				RVR 2100m

1 LACFT: DA(H) 589' (227'). 2 RVR 750m when a Flight Director or Autopilot or HUD to DA is not used.



# EDDF/FRA

## FRANKFURT/MAIN

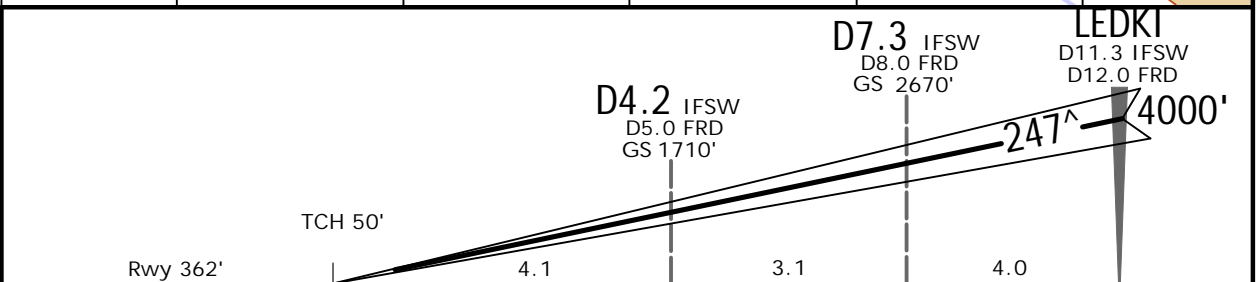
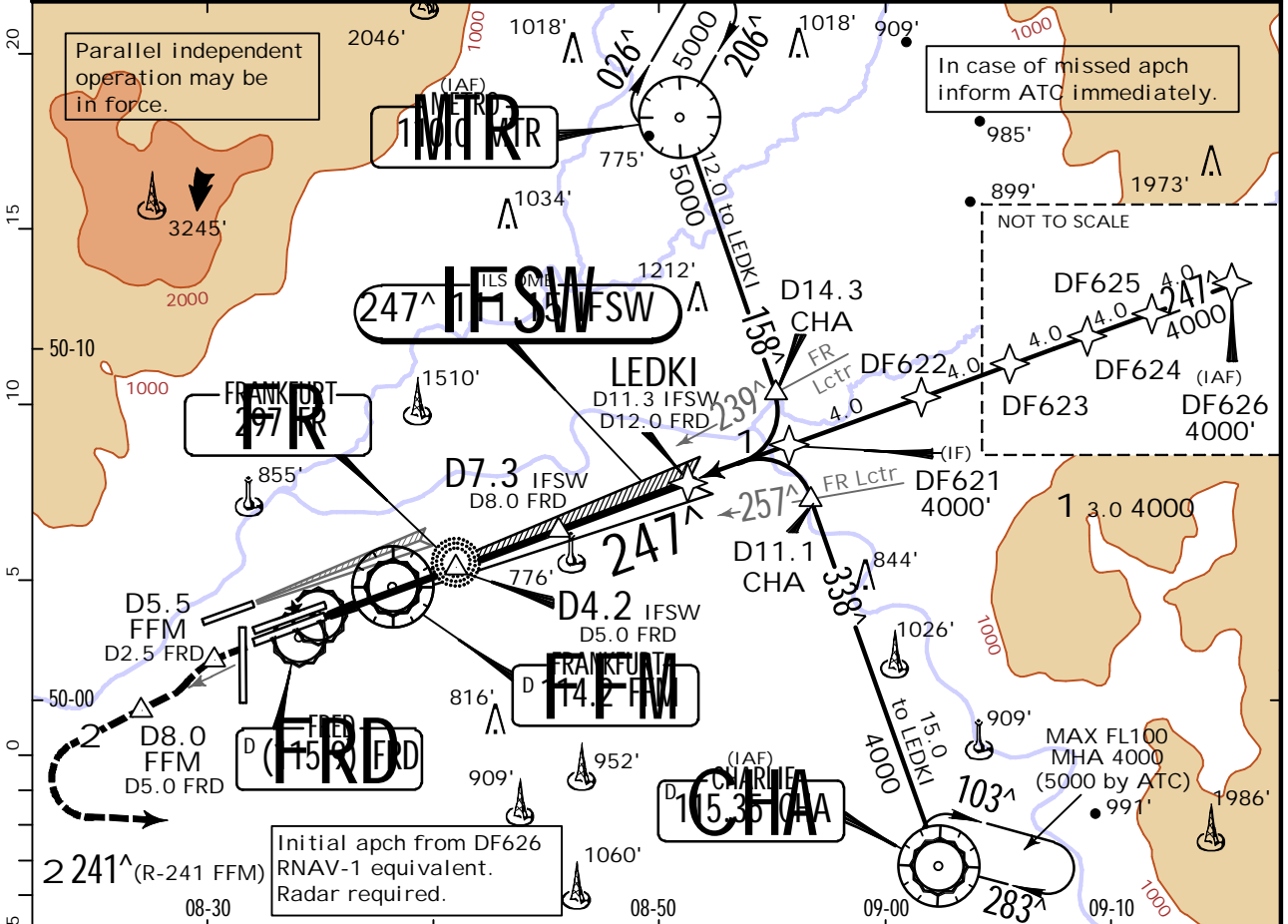
29 OCT 21

11-5A .Eff.4.Nov.

# JEPPESSEN FRANKFURT/MAIN, GERMANY

## 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 247 <sup>^</sup>	LEDKI 4000' (3638')	CAT IIIB, IIIA & II ILS Refer to Minimums	Apt Elev 364'	Rwy 362'		
MISSED APCH: Climb STRAIGHT AHEAD to D5.5 FFM/D2.5 FRD, then turn LEFT to intercept R-241 FFM. Then on R-241 FFM to D8.0 FFM/D5.0 FRD or 5000', whichever is later, then turn LEFT to CHA VOR and maintain 5000'.							MSA FFM VOR
Alt Set: hPa(IN on req) Rwy Elev: 13 hPa Trans level: By ATC Trans alt: 5000'							
1. DME required. 2. CAUTION: Independent taxiing acft 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 
GS	3.00 <sup>^</sup>	372	478	531	637	849	

Standard. CAT IIIB ILS	STRAIGHT-IN LANDING RWY 25L CAT IIIA ILS	CAT II ILS
	DH 50'	RA 95' DA(H) 462' (100')

PANS OPS RVR 75m	RVR 200m	RVR 300m
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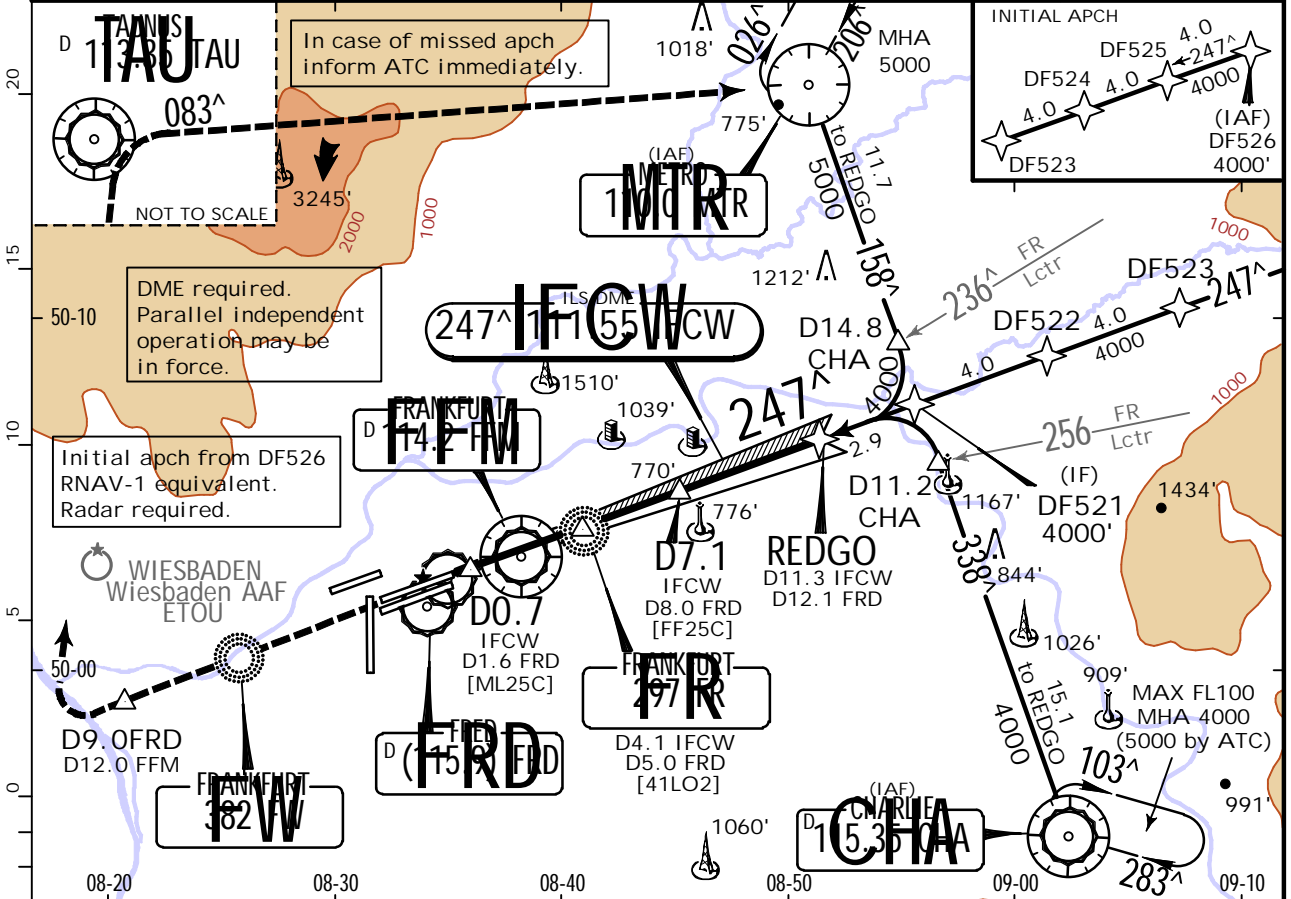
# EDDF/FRA

## FRANKFURT/MAIN

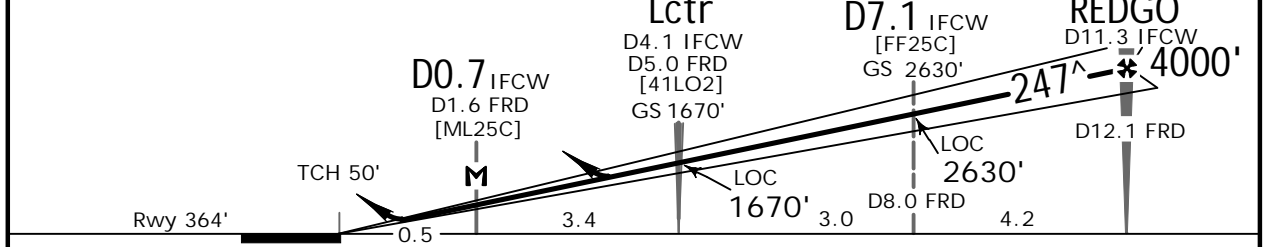
JEPPesen FRANKFURT/MAIN, GERMANY  
29 OCT 21 (11-6). Eff. 4. Nov.

# ILS 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
LOC IFCW <b>111.55</b>	Final Apch Crs <b>247<sup>^</sup></b>	REDGO <b>4000'</b> (3636')	ILS DA(H) <b>564'</b> (200')	Apt Elev 364' Rwy 364'			
<b>MISSED APCH:</b> Climb STRAIGHT AHEAD via FW Lctr to D9.0 FRD/ D12.0 FFM or 5000', whichever is later, then turn RIGHT to TAU VOR. Turn RIGHT to intercept R-083 TAU/R-264 inbound MTR VOR and maintain 5000'.						MSA FFM VOR	
Alt Set: hPa (IN on req) Rwy Elev: 13 hPa Trans level: By ATC Trans alt: 5000'							
CAUTION: Independent taxiing acft on Twy U underneath short final.							



LOC (GS out)	IFCW DME	2.0	3.0	4.0	5.0	6.0	8.0	9.0	10.0	11.0
	ALTITUDE	1000'	1310'	1630'	1950'	2270'	2910'	3220'	3540'	3860'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI D9.0 FRD   5000' D12.0 FFM   whichever later	
ILS GS or LOC Descent Angle	3.06 <sup>^</sup>	379	487	541	650	758		866
MAP at D0.7 IFCW/D1.6 FRD								

Standard. STRAIGHT-IN LANDING RWY 25C				LOC (GS out)	
ILS		DA(H) <b>564'</b> (200')		CDFA DA/MDA(H) <b>810'</b> (446')	
FULL	TDZ or CL out	ALS out			ALS out
A					RVR 1500m
B	RVR 550m	RVR 550m 1	RVR 1200m	RVR 1400m	RVR 2100m
C					
D					

1 RVR 750m when a Flight Director or Autopilot or HUD to DA is not used.



# EDDF/FRA

## FRANKFURT/MAIN

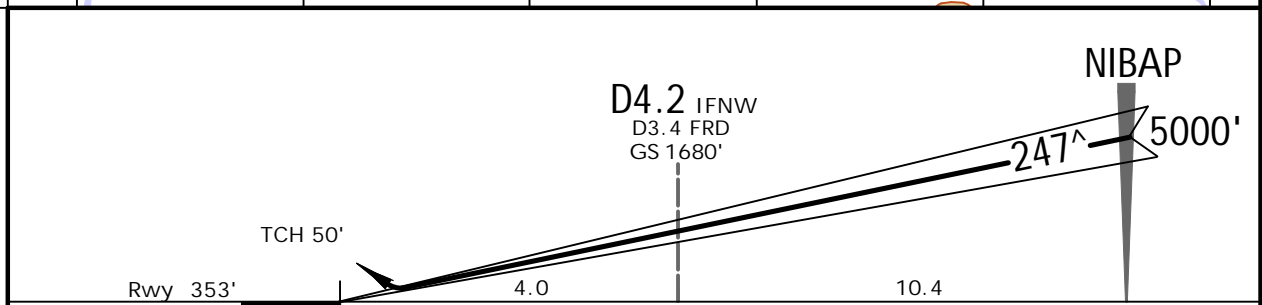
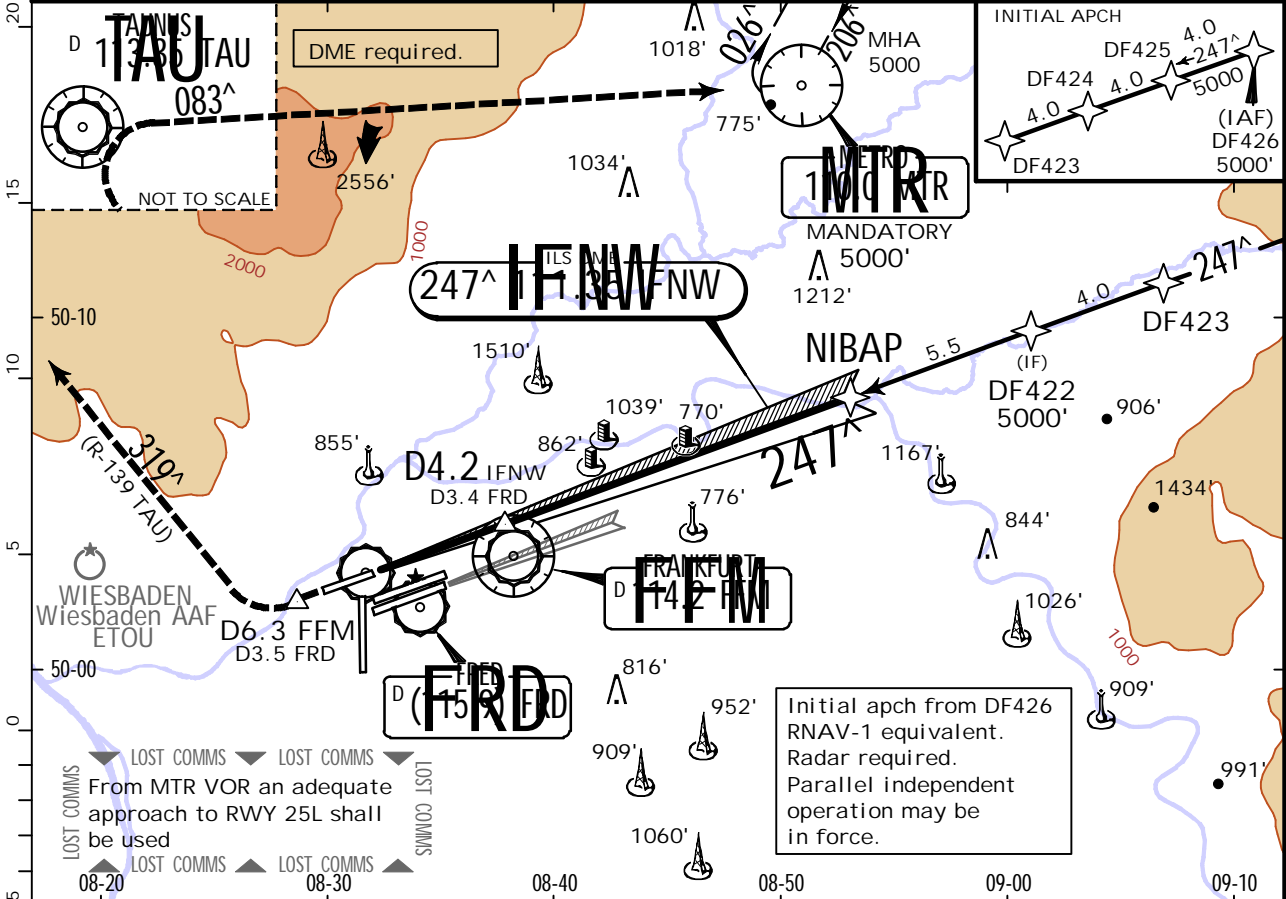
JEPESEN  
29 OCT 21  
.Eff.4.Nov. (11-7)

# FRANKFURT/MAIN, GERMANY

## MISSED APCH CLIMB ILS Z Rwy 25R

GRAD MIM 5.0%

*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
LOC IFNW 111.35	Final Apch Crs 247 <sup>^</sup>	NIBAP 5000' (4647')	DA(H) Refer to Minimums	Apt Elev 364' Rwy 353'		
MISSED APCH: Climb STRAIGHT AHEAD to D6.3 FFM/D3.5 FRD at 800' or above, then turn RIGHT to intercept R-139 inbound TAU VOR. Turn RIGHT to intercept R-083 TAU/R-264 inbound MTR VOR climbing to 5000'.						MSA FFM VOR
Alt Set: hPa (IN on req)    Rwy Elev: 13 hPa    Trans level: By ATC    Trans alt: 5000'						
In case of missed apch inform ATC immediately.						



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	MIM 800'	D6.3 at D3.5 FRD
GS	3.00 <sup>^</sup>	372	478	531	637	849			

Standard. STRAIGHT-IN LANDING RWY 25R

Missed apch climb gradient mim 5.0% up to 2000'

DA(H) ABC: 553' (200') D: 558' (205')

FULL	IDZ or CL out	ALS out
A		
B		
C	RVR 550m	RVR 1200m
D	RVR 550m 1	

1 RVR 750m when a Flight Director or Autopilot or HUD to DA is not used.

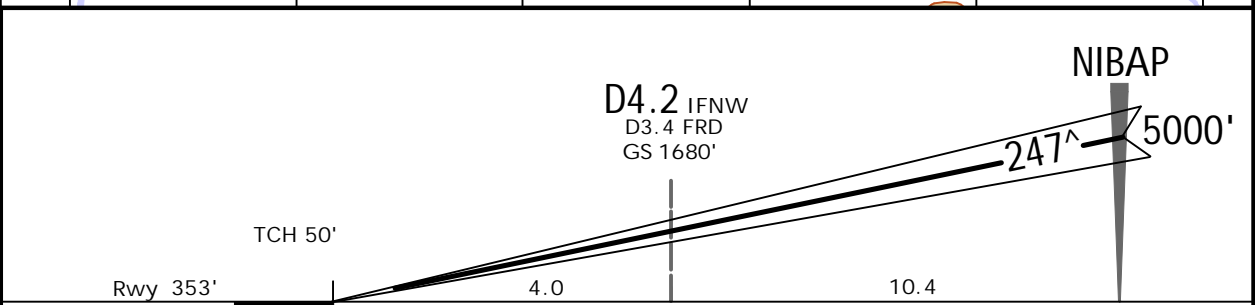
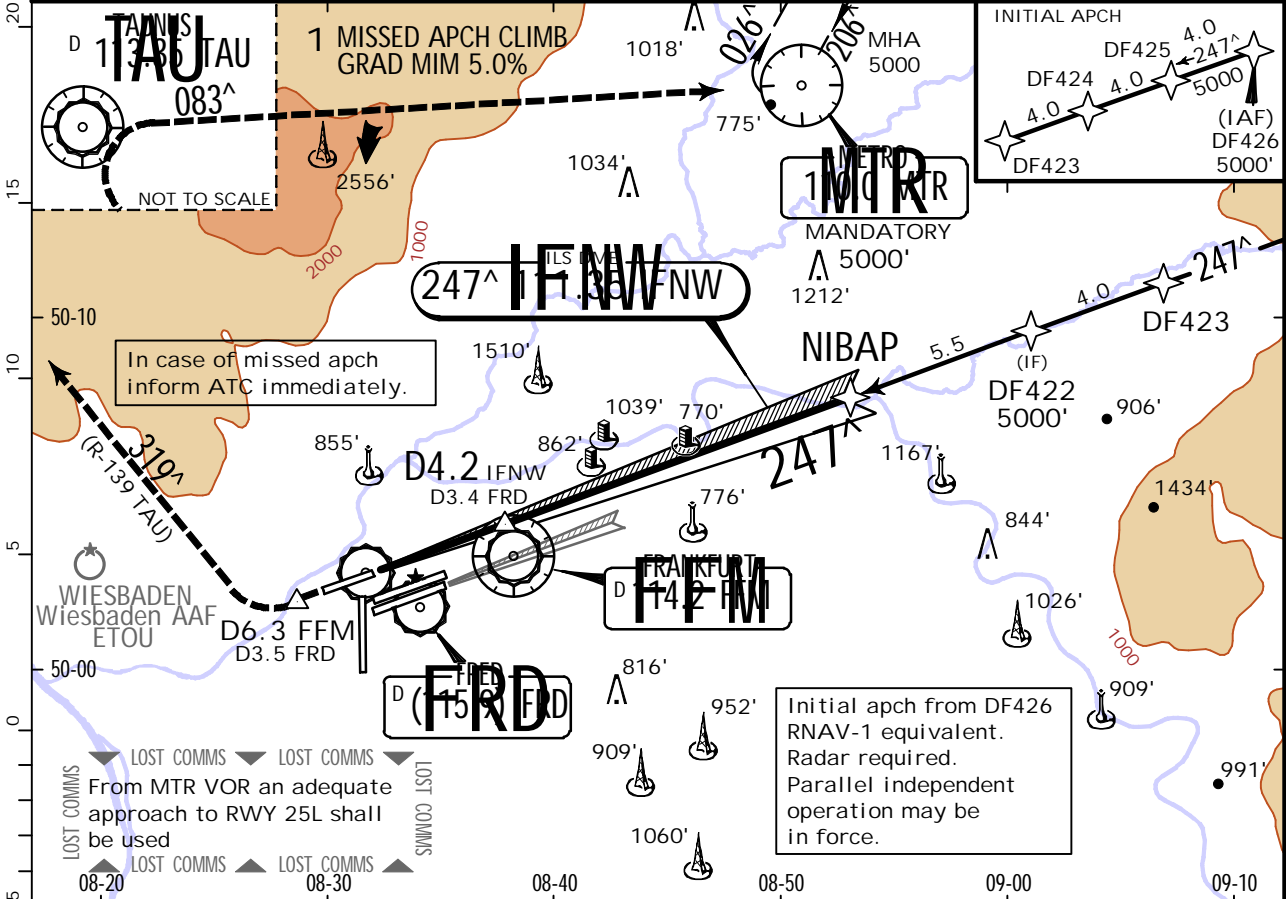
# EDDF/FRA

## FRANKFURT/MAIN

# JEPPESEN FRANKFURT/MAIN, GERMANY

29 OCT 21  
Eff. 4. Nov. (11-7A) 1 CAT II/III ILS 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
LOC IFNW 111.35	Final Apch Crs 247 <sup>^</sup>	NIBAP 5000' (4647')	CAT IIIB, IIIA & II ILS Refer to Minimums	Apt Elev 364' Rwy 353'	<p>MSA FFM VOR</p>
<p>MISSED APCH: Climb STRAIGHT AHEAD to D6.3 FFM/D3.5 FRD at 800' or above, then turn RIGHT to intercept R-139 inbound TAU VOR. Turn RIGHT to intercept R-083 TAU/R-264 inbound MTR VOR climbing to 5000'.</p>					
<p>Alt Set: hPa (IN on req) Rwy Elev: 13 hPa Trans level: By ATC Trans alt: 5000'</p> <p>1. DME required. 2. Special Aircrew &amp; Aircraft Certification Required.</p>					



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	MIM 800' at D6.3 FFM D3.5 FRD
GS	3.00 <sup>^</sup>	372	478	531	637	849		

Standard. STRAIGHT-IN LANDING RWY 25R Missed apch climb gradient mim 5.0% up to 2000'			
CAT IIIB ILS	CAT IIIA ILS	CAT II ILS	
	DH 50'	A: RA 103' B: RA 107' C: RA 121'	DA(H) 453' (100') DA(H) 457' (104') DA(H) 470' (117')
			D: RA 143' DA(H) 483' (130')
RVR 75m	RVR 200m	RVR 300m	RVR 400m

# EDDF/FRA

## FRANKFURT/MAIN

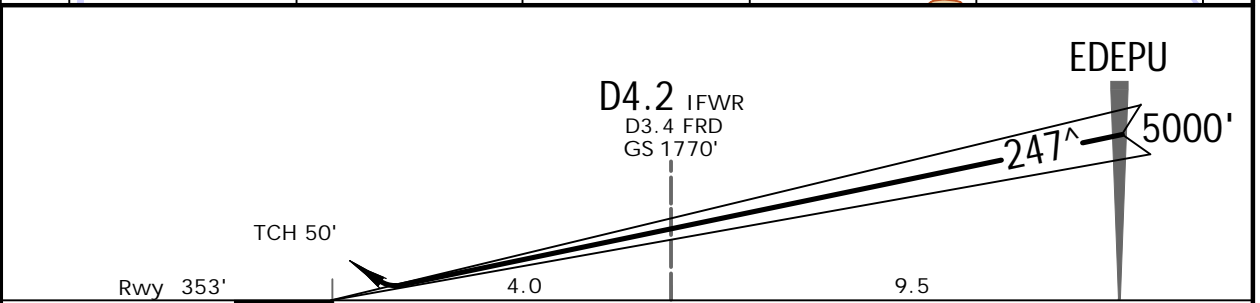
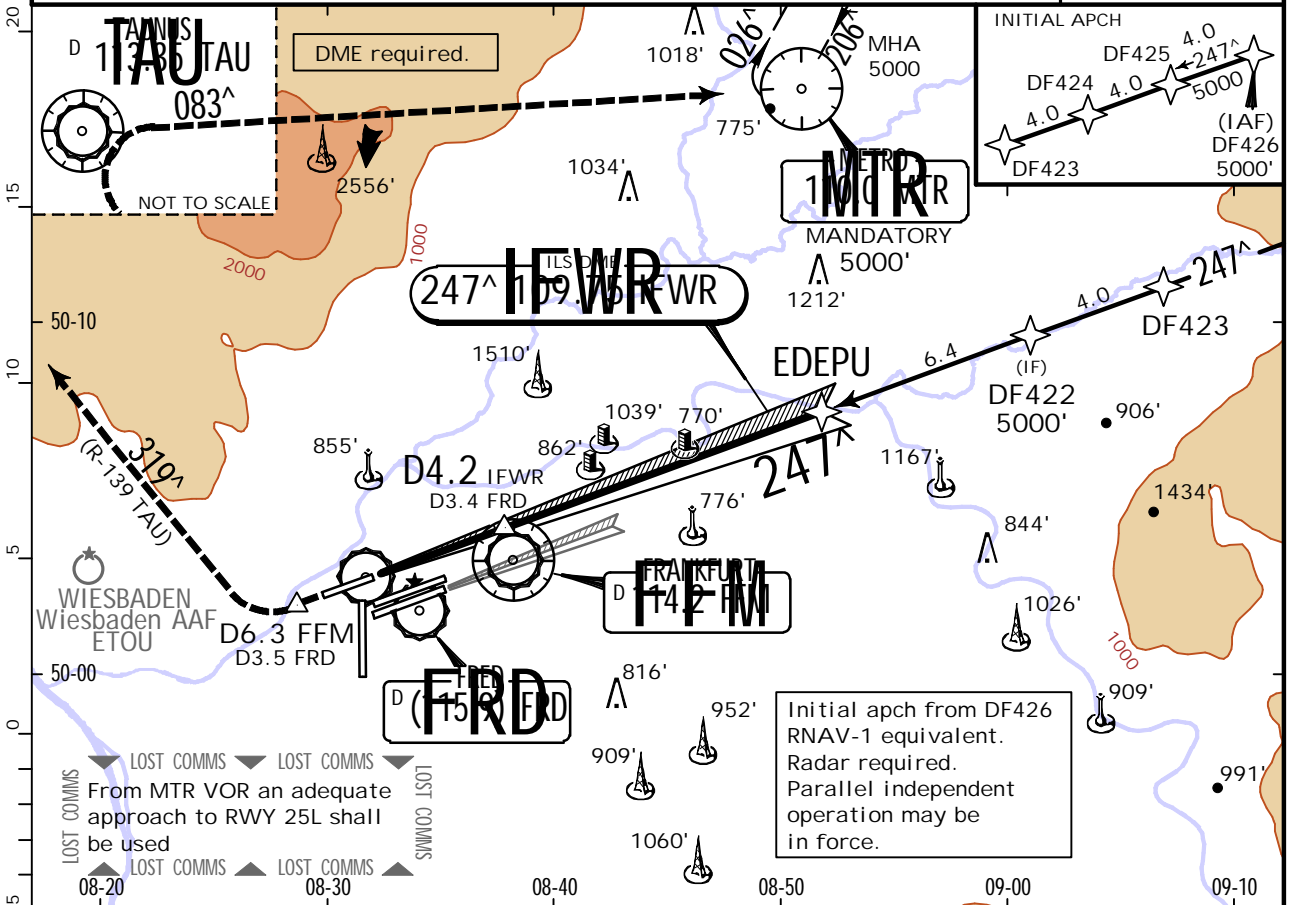
JEPPESSEN  
29 OCT 21  
.Eff. 4. Nov. (11-8)

# FRANKFURT/MAIN, GERMANY

## MISSED APCH CLIMB ILS Y Rwy 25R

GRAD MIM 5.0%

*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
LOC IFWR 109.75	Final Apch Crs 247 <sup>^</sup>	EDEPU 5000' (4647')	DA(H) Refer to Minimums	Apt Elev 364' Rwy 353'		
MISSED APCH: Climb STRAIGHT AHEAD to D6.3 FFM/D3.5 FRD at 800' or above, then turn RIGHT to intercept R-139 inbound TAU VOR. Turn RIGHT to intercept R-083 TAU/R-264 inbound MTR VOR climbing to 5000'.						MSA FFM VOR
Alt Set: hPa (IN on req) Rwy Elev: 13 hPa Trans level: By ATC Trans alt: 5000'						
In case of missed apch inform ATC immediately.						



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	MIM 800'	at D6.3 FFM D3.5 FRD
GS	3.20 <sup>^</sup>	396	510	566	679	906			

Standard. STRAIGHT-IN LANDING RWY 25R

Missed apch climb gradient mim 5.0% up to 2000'

DA(H) ABC: 553' (200') D: 558' (205')

	FULL	IDZ or CL out	ALS out
A			
B			
C	RVR 550m	RVR 550m 1	RVR 1200m
D			

1 RVR 750m when a Flight Director or Autopilot or HUD to DA is not used.



# EDDF/FRA

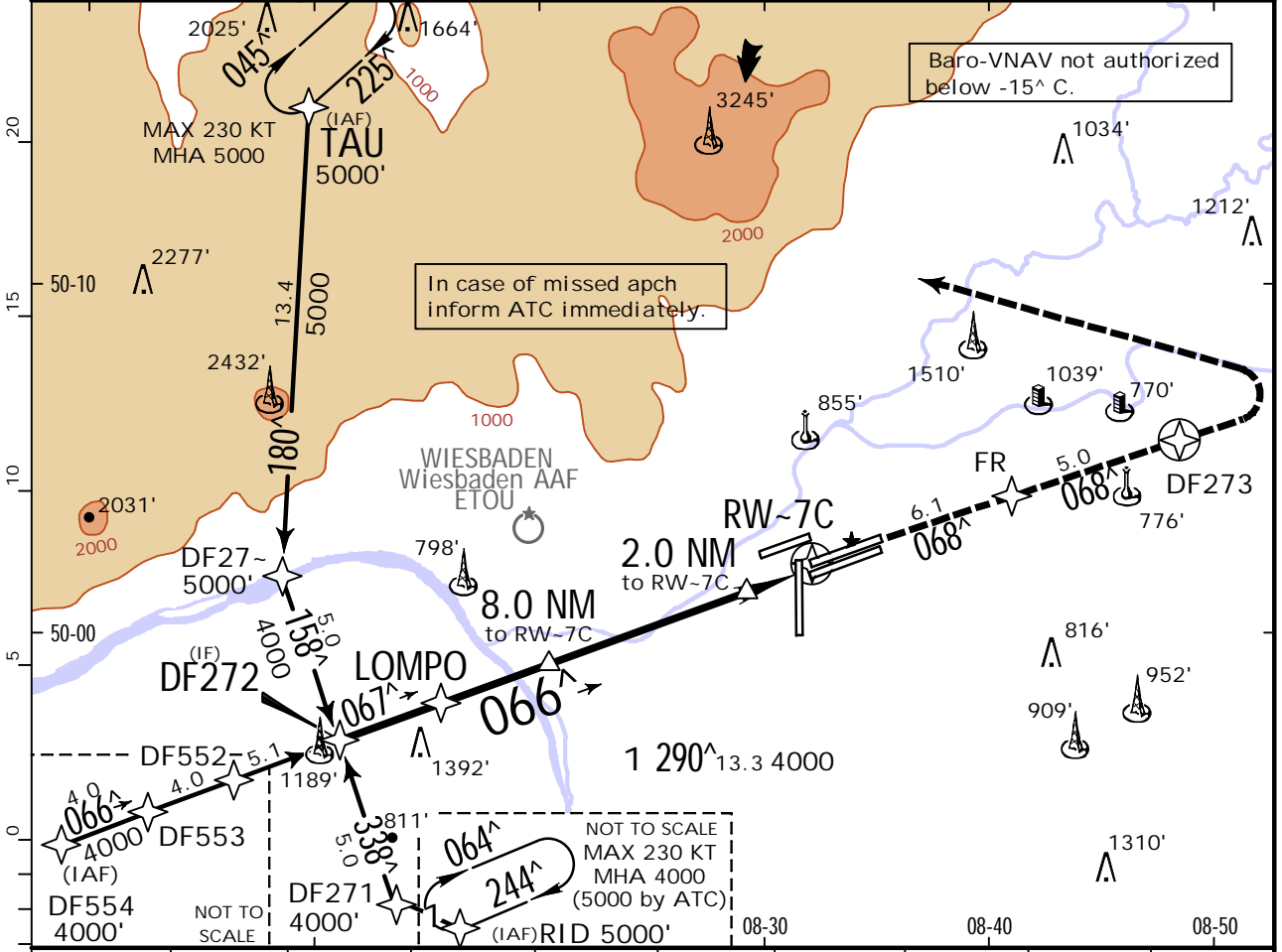
## FRANKFURT/MAIN

28 OCT 22 (12-1) .Eff.3.Nov.

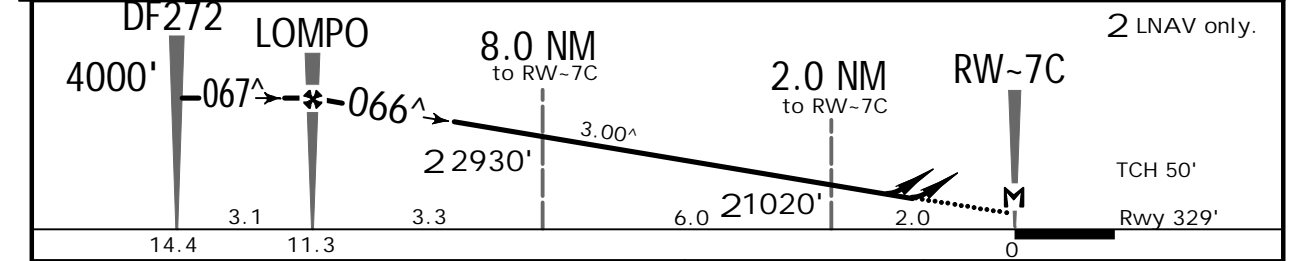
# JEPPESSEN FRANKFURT/MAIN, GERMANY

## RNP Z Rwy 07C

*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 Aptch Crs <b>066<sup>^</sup></b>	LOMPO <b>4000'</b> (3671')		LNAV/VNAV DA(H) Refer to Minimums	Apt Elev 364'	Rwy 329'	4300
MISSED APCH: Climb on 068 <sup>^</sup> to FR, then to DF273 or 5000', whichever is later, then turn LEFT direct to TAU maintain 5000'.							
Alt Set: hPa (IN on req)		Rwy Elev: 12 hPa		Trans level: By ATC		Trans alt: 5000'	



NM to RW-7C	10.0	9.0	8.0	7.0	6.0	5.0	4.0	3.0	2.0
ALTITUDE	3570'	3250'	2930'	2610'	2290'	1980'	1660'	1340'	1020'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	FR ↑ on 068 <sup>^</sup>
Descent Angle	3.00 <sup>^</sup>	372	478	531	637	849		
MAP at RW-7C								

Standard.	LNAV/VNAV				STRAIGHT-IN LANDING RWY 07C				LNAV	
	DA(H) A: 654' (325') B: 664' (335')		C: 692' (363') D: 701' (372')		DA/MDA(H) A: 790' (461')		B: 820' (491') CD: 840' (511')		ALS out	

A	RVR 800m	RVR 1500m	RVR 1500m
B			
C	RVR 1000m	RVR 1700m	RVR 1600m
D			RVR 2400m





# EDDF/FRA

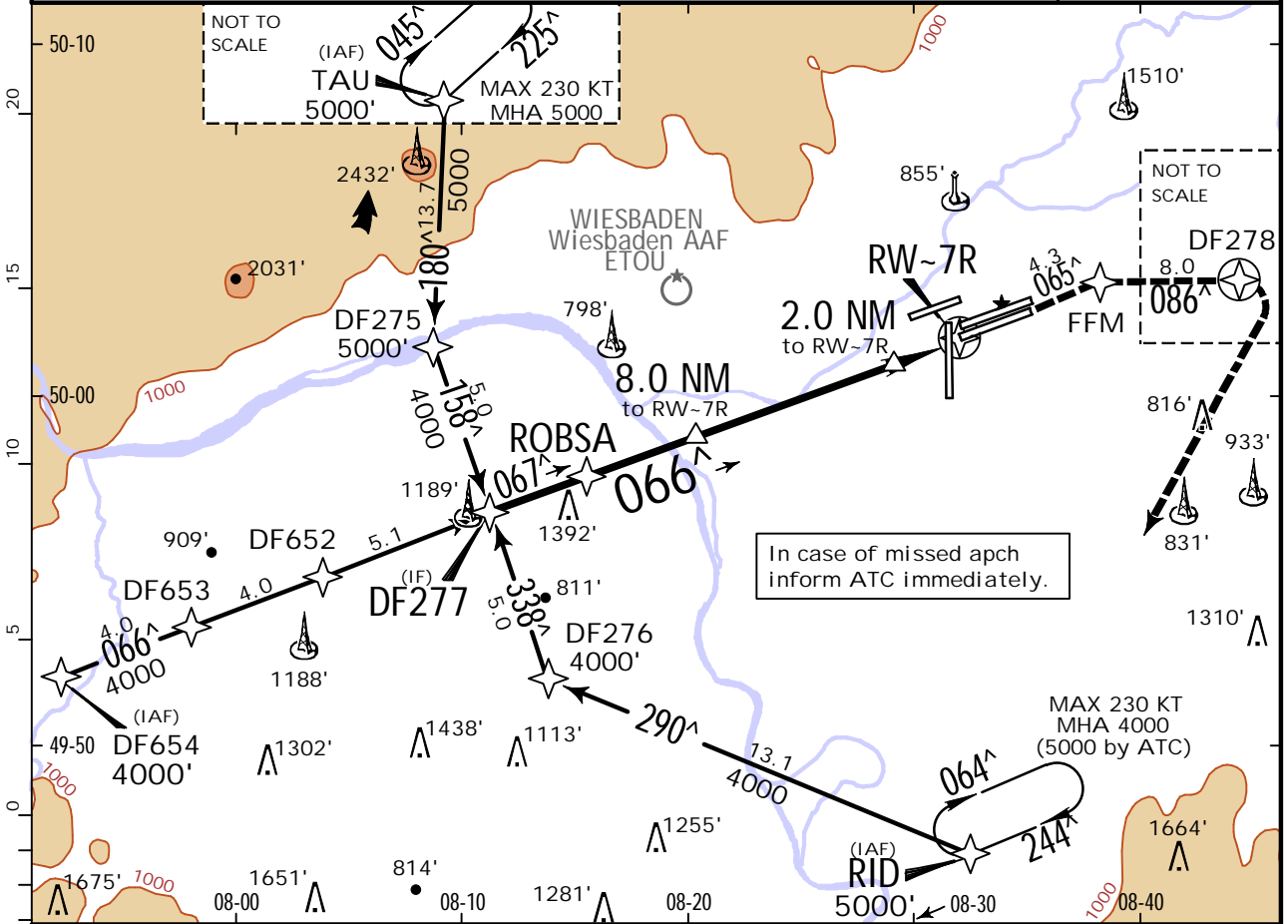
## FRANKFURT/MAIN

28 OCT 22 (12-3). Eff. 3. Nov.

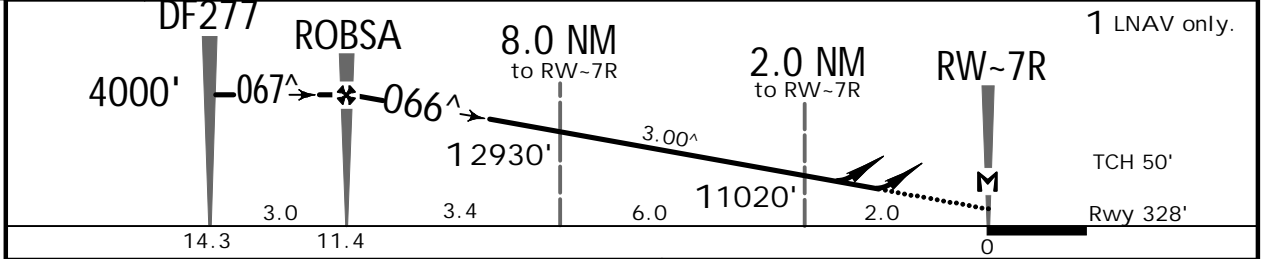
# JEPPESEN FRANKFURT/MAIN, GERMANY

## RNP Z Rwy 07R

*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 <b>066<sup>^</sup></b>	ROBSA <b>4000'</b> (3672')		LNAV/VNAV DA(H) Refer to Minimums	Apt Elev 364'	Rwy 328'	
MISSED APCH: Climb on 065 <sup>^</sup> to FFM, then to DF278 or 5000', whichever is later, then turn RIGHT to RID and maintain 5000'.							4300
Alt Set: hPa (IN on req) Rwy Elev: 12 hPa Trans level: By ATC Trans alt: 5000'							
Baro-VNAV not authorized below -15 <sup>^</sup> C.							
							MSA ARP



NM to RW-7R	10.0	9.0	8.0	7.0	6.0	5.0	4.0	3.0	2.0
ALTITUDE	3570'	3250'	2930'	2610'	2290'	1970'	1660'	1340'	1020'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	FFM ↑ on 065 <sup>^</sup>
Descent Angle	3.00 <sup>^</sup>	372	478	531	637	849		
MAP at RW-7R								

Standard.		LNAV/VNAV		STRAIGHT-IN LANDING RWY 07R		LNAV	
DA(H)		A: 624' (296')	C: 644' (316')	DA/MDA(H)		AB: 810' (482')	C: 830' (502')
		B: 634' (306')	D: 716' (388')			D: 840' (512')	
		ALS out				ALS out	
A	RVR 750m 1					RVR 1500m	
B	RVR 750m 2	RVR 1400m					
C				RVR 1600m		RVR 2400m	
D	RVR 1100m	RVR 1800m					

1 With TDZ & CL & HUD: RVR 650m. 2 With TDZ & CL & HUD: RVR 700m.

# EDDF/FRA

## FRANKFURT/MAIN

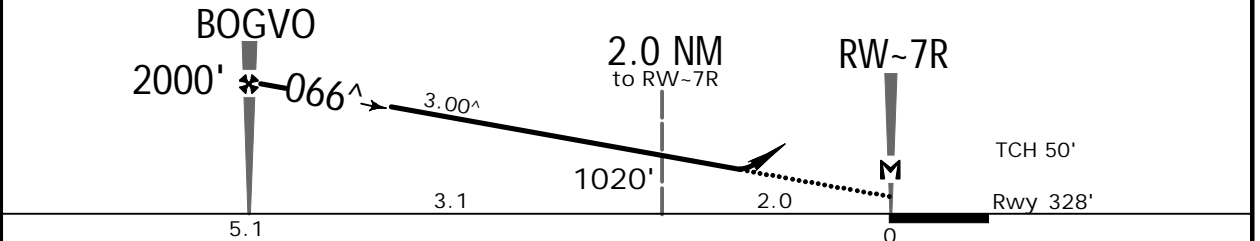
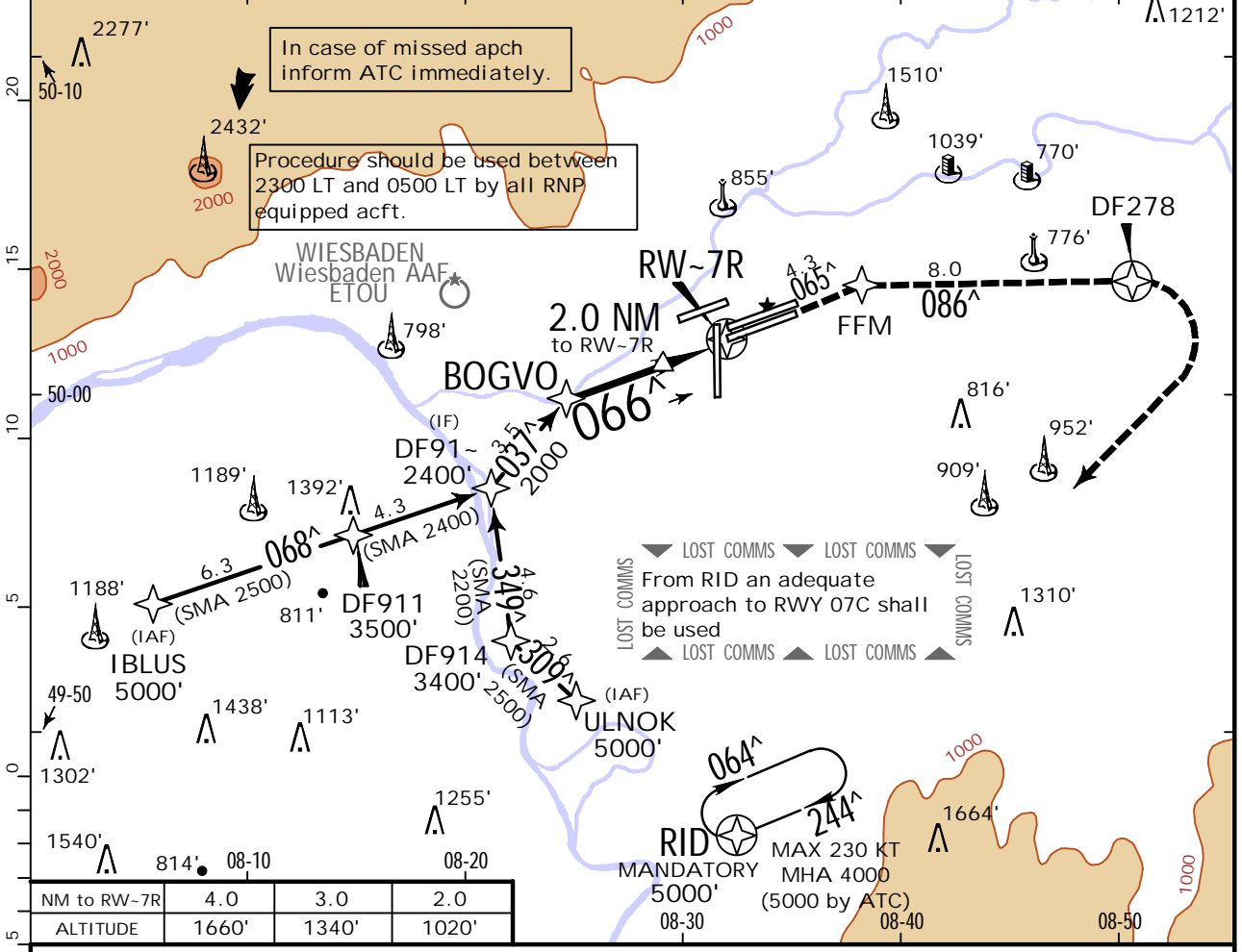
28 OCT 22 (12-4).Eff.3.Nov.

# 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
RNAV	Final Apch Crs <b>066<sup>^</sup></b>	BOGVO <b>2000'</b> (1672')		DA/MDA(H) Refer to Minimums	Apt Elev 364' Rwy 328'	<p>4300 MSA ARP</p>	
MISSED APCH: Climb on 065 <sup>^</sup> to FFM, then to DF278 or 5000', whichever is later, then turn RIGHT to RID and maintain 5000'.							

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 	FFM on 065 <sup>^</sup>
Descent Angle 3.00 <sup>^</sup>	372	478	531	637	743	849		
MAP at RW-7R								

**Standard.** STRAIGHT-IN LANDING RWY 07R  
 LNAV  
 CDFA  
 DA/MDA(H) C: 830' (502')  
 AB: 810' (482') D: 840' (512')  
 ALS out

A	RVR 1500m	
B		
C	RVR 1600m	RVR 2400m
D		

# EDDF/FRA

## FRANKFURT/MAIN

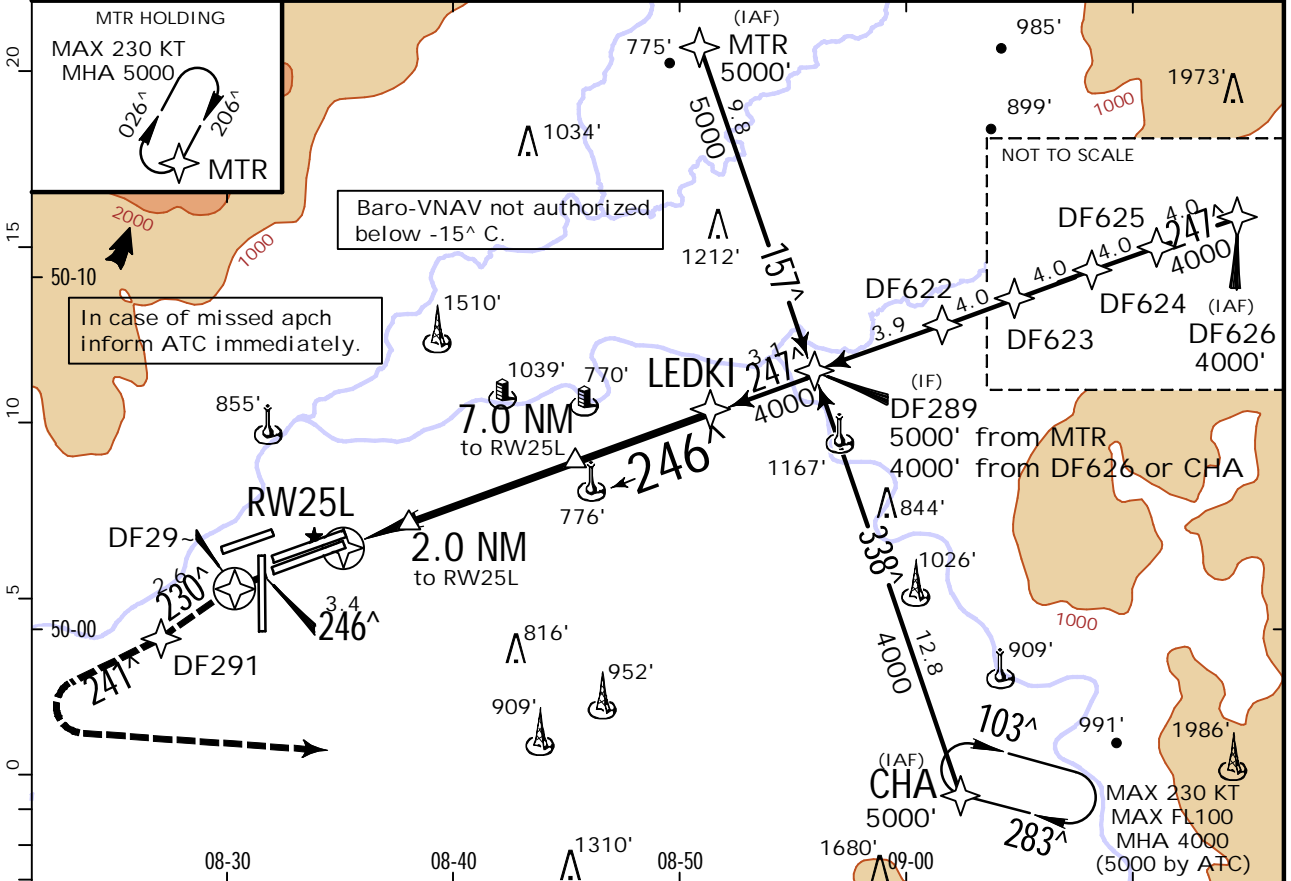
28 OCT 22 (12-5) .Eff.3.Nov.

# JEPPESEN FRANKFURT/MAIN, GERMANY

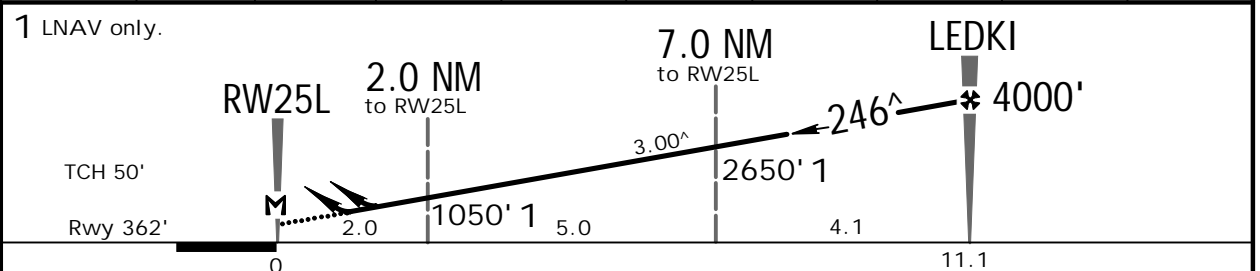
## RNP Z Rwy 25L

*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 <b>246<sup>^</sup></b>	LEDKI <b>4000'</b> (3638')	LNAV/VNAV DA(H) Refer to Minimums		Apt Elev 364'	 MSA ARP 4300	
MISSED APCH: Climb on 246 <sup>^</sup> to DF29~, then to DF291. Then on 241 <sup>^</sup> climb to 5000', then turn LEFT direct to CHA and maintain 5000'.							

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



NM to RW25L	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
ALTITUDE	1050'	1370'	1690'	2010'	2330'	2650'	2960'	3280'	3600'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	DF29~ on 246 <sup>^</sup>
Descent Angle	3.00 <sup>^</sup>	372	478	531	637	849		
MAP at RW25L								

Standard.		LNAV/VNAV		STRAIGHT-IN LANDING RWY 25L		LNAV	
DA(H)		A: 654' (292') B: 663' (301')		C: 673' (311') D: 683' (321')		CDEFA, 820' (458')	
		ALS out				ALS out	
A	RVR 750m 1					RVR 1500m	
B	RVR 750m 2	RVR 1400m		RVR 1400m			
C						RVR 2100m	
D	RVR 800m	RVR 1500m					

1 With TDZ & CL & HUD: RVR 650m. 2 With TDZ & CL & HUD: RVR 700m.

# EDDF/FRA

## FRANKFURT/MAIN

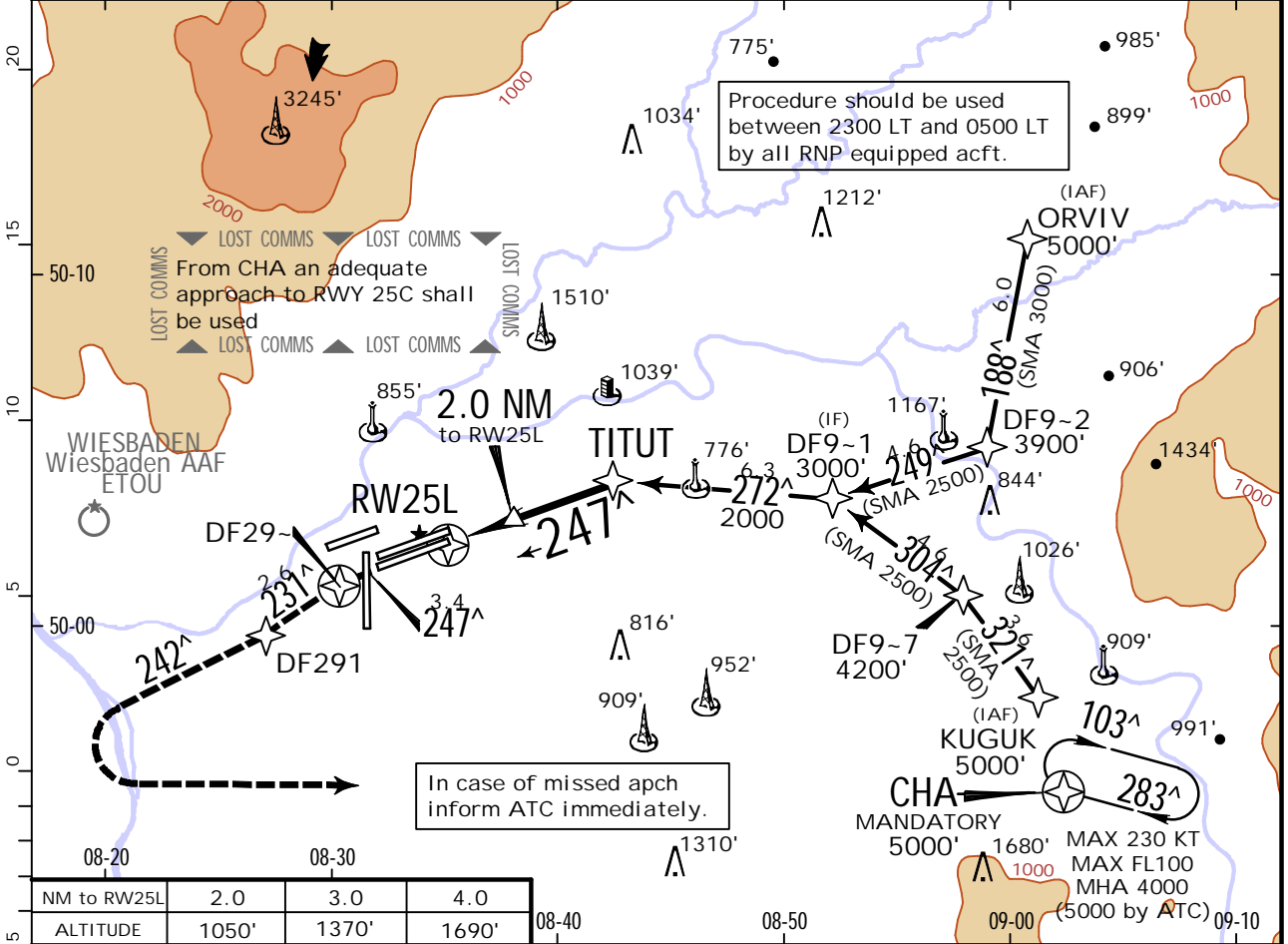
28 OCT 22 (12-6) .Eff.3.Nov.

# JEPPESEN FRANKFURT/MAIN, GERMANY

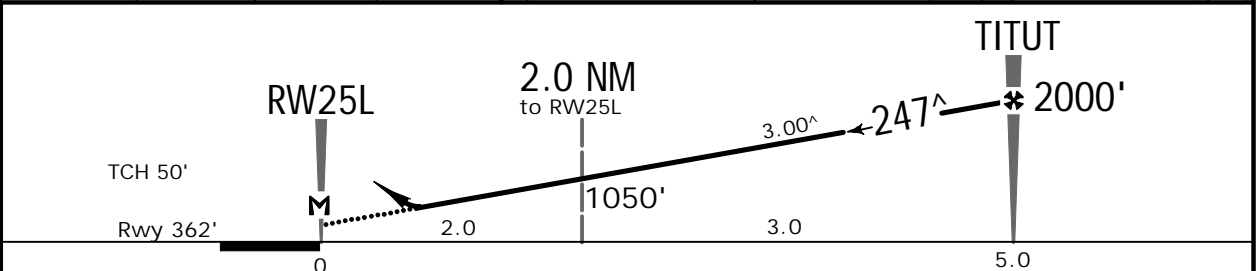
## RNP Y Rwy 25L

*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
RNAV	Final Apch Crs <b>247<sup>^</sup></b>	TITUT <b>2000'</b> (1638')		DA/MDA(H) Refer to Minimums	Apt Elev 364' Rwy 362'	 4300 MSA ARP	
MISSED APCH: Climb on 247 <sup>^</sup> to DF29~, then to DF291. Then on 242 <sup>^</sup> climb to 5000', then turn LEFT direct to CHA and maintain 5000'.							

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



NM to RW25L	2.0	3.0	4.0
ALTITUDE	1050'	1370'	1690'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	DF29~ on 247 <sup>^</sup>
Descent Angle 3.00 <sup>^</sup>	372	478	531	637	743	849		
MAP at RW25L								

**Standard.** STRAIGHT-IN LANDING RWY 25L  
LNAV  
CDFA  
DA/MDA(H) A: **770'** (408') BCD: **820'** (458')

		ALS out	
A	RVR 1200m	RVR 1500m	
B			
C	RVR 1400m	RVR 2100m	
D			



# EDDF/FRA

## FRANKFURT/MAIN

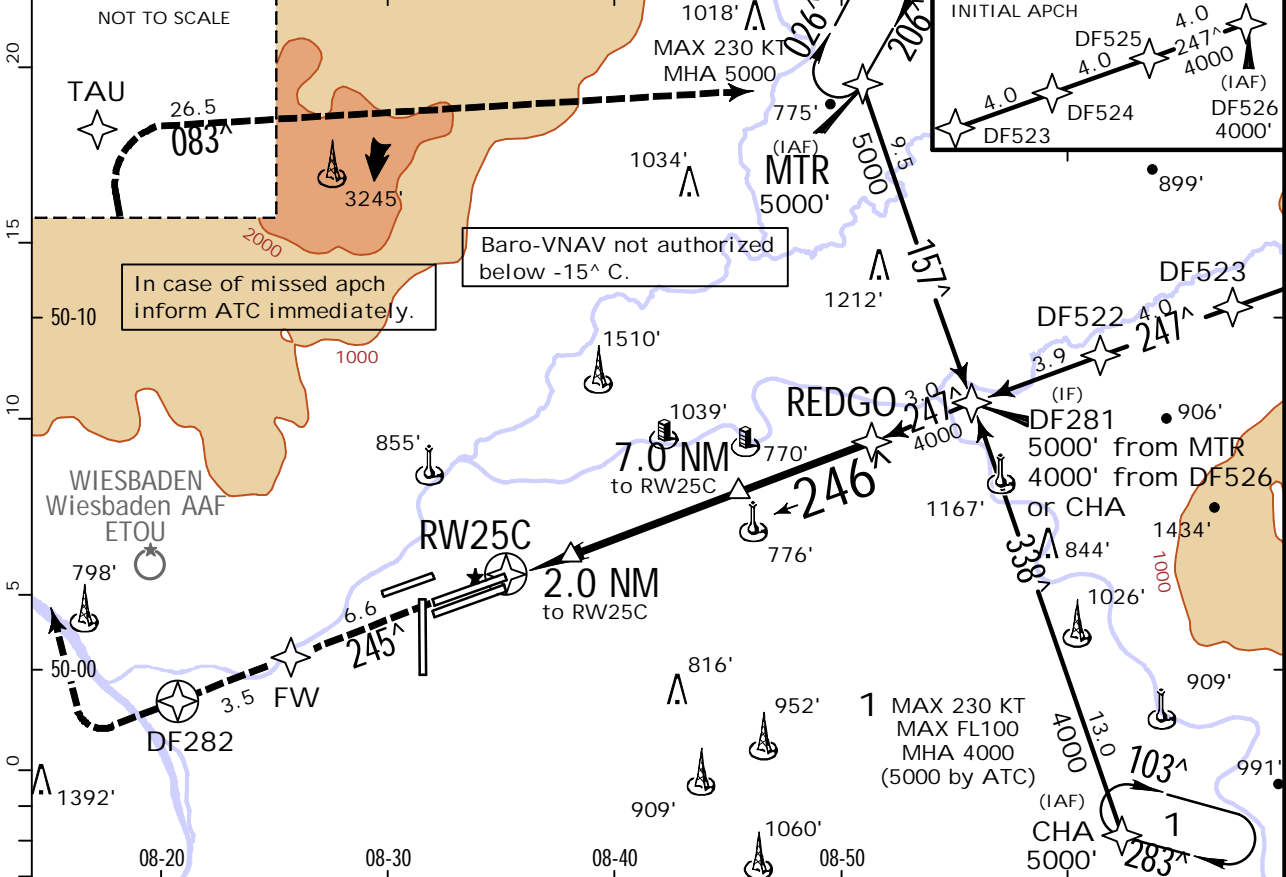
28 OCT 22 (12-7).Eff.3.Nov.

# JEPPesen FRANKFURT/MAIN, GERMANY

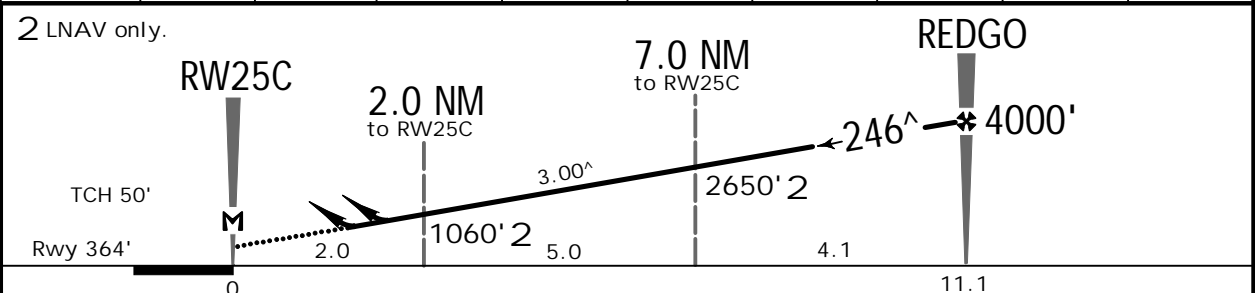
## RNP Z Rwy 25C

*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
RNAV	Final Apch Crs <b>246<sup>^</sup></b>	REDGO <b>4000'</b> (3636')	LNAV/VNAV DA(H) Refer to Minimums	Apt Elev 364' Rwy 364'	4300 MSA ARP
MISSED APCH: Climb on 245 <sup>^</sup> to FW, then to DF282 or 5000', whichever is later, then turn RIGHT direct to TAU. Turn RIGHT to MTR and maintain 5000'.					

RNP Apch	Alt Set: hPa (IN on req)	Rwy Elev: 13 hPa	Trans level: By ATC	Trans alt: 5000'
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NM to RW25C	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
ALTITUDE	1060'	1370'	1690'	2010'	2330'	2650'	2970'	3280'	3600'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	FW ↑ on 245 <sup>^</sup>	
Descent Angle	3.00 <sup>^</sup>	372	478	531	637	849			
MAP at RW25C									

Standard.	LNAV/VNAV		STRAIGHT-IN LANDING RWY 25C		LNAV CDFA	
	DA(H) A: 693' (329') B: 700' (336')	C: 707' (343') D: 714' (350')	DA/MDA(H) AB: 800' (436') CD: 840' (476')			
	ALS out				ALS out	

PANS OPS	A	RVR 800m	RVR 1500m	RVR 1300m	RVR 1500m
	B				
	C	RVR 900m	RVR 1600m	RVR 1500m	RVR 2200m
	D				



# EDDF/FRA

## FRANKFURT/MAIN

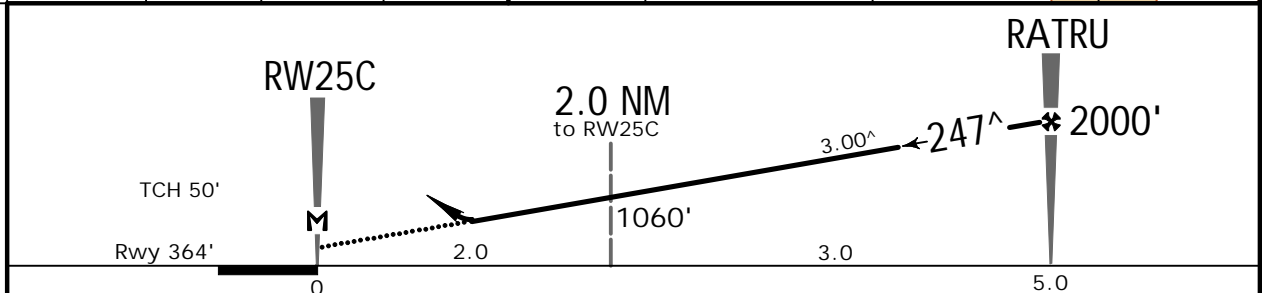
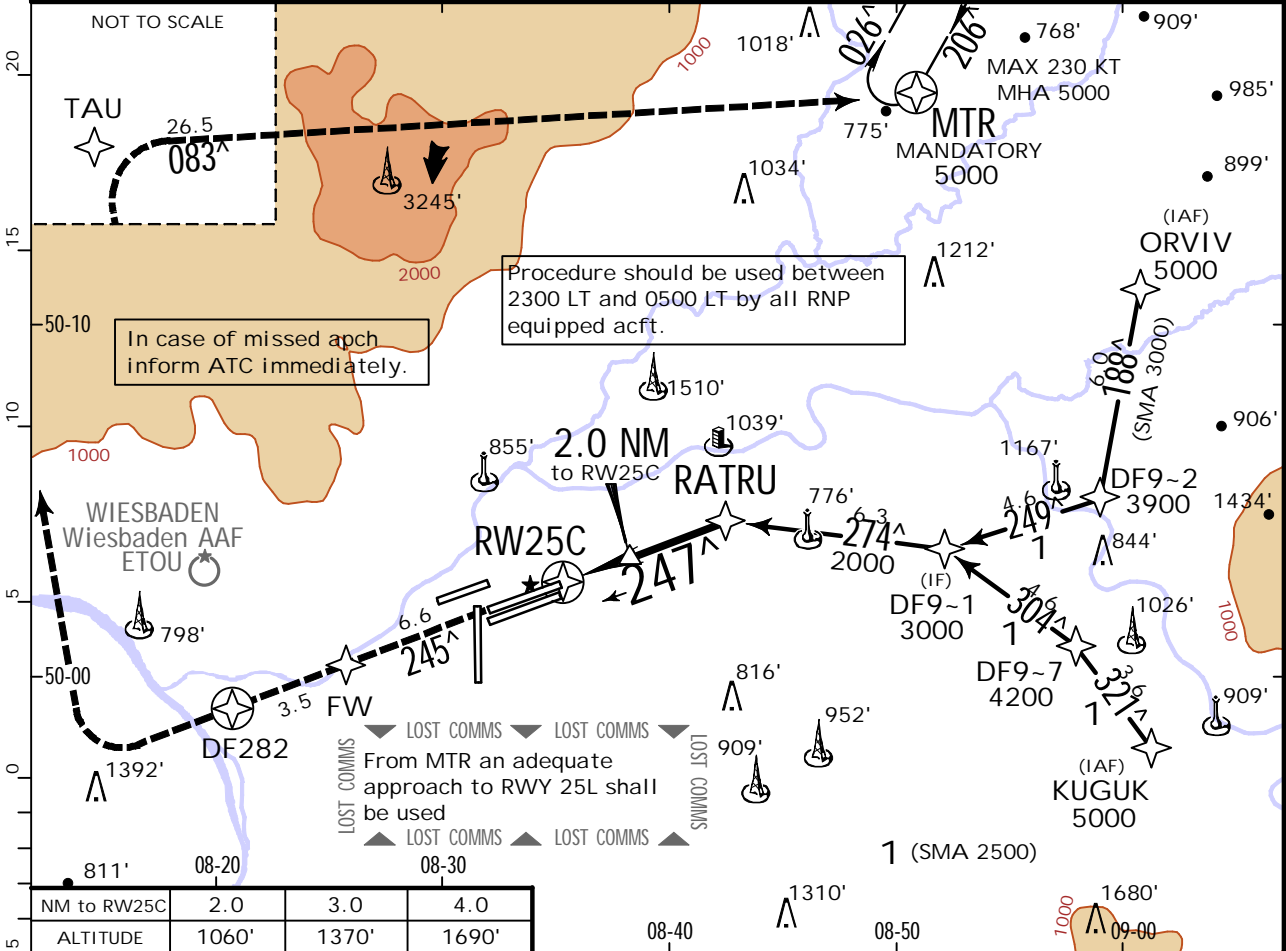
28 OCT 22 (12-8). Eff. 3. Nov.

# JEPPesen FRANKFURT/MAIN, GERMANY

## RNP Y Rwy 25C

BRIEFING STRIP™	*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 <b>247<sup>^</sup></b>		RATRU <b>2000'</b> (1636')		DA/MDA(H) Refer to Minimums		Apt Elev 364' Rwy 364'
MISSED APCH: Climb on 245 <sup>^</sup> to FW, then to DF282 or 5000', whichever is later, then turn direct to TAU. Turn RIGHT to MTR and maintain 5000'.								4300 MSA ARP

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



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	FW ↑ on 245 <sup>^</sup>
Descent Angle 3.00 <sup>^</sup>	372	478	531	637	743	849		
MAP at RW25C								

**Standard.** STRAIGHT-IN LANDING RWY 25C

LNAV  
CDFA

DA/MDA(H) AB: **800'** (436')  
CD: **840'** (476')

ALS out

PANS OPS	A		
	B	RVR 1300m	RVR 1500m
	C		
	D	RVR 1500m	RVR 2200m

# EDDF/FRA

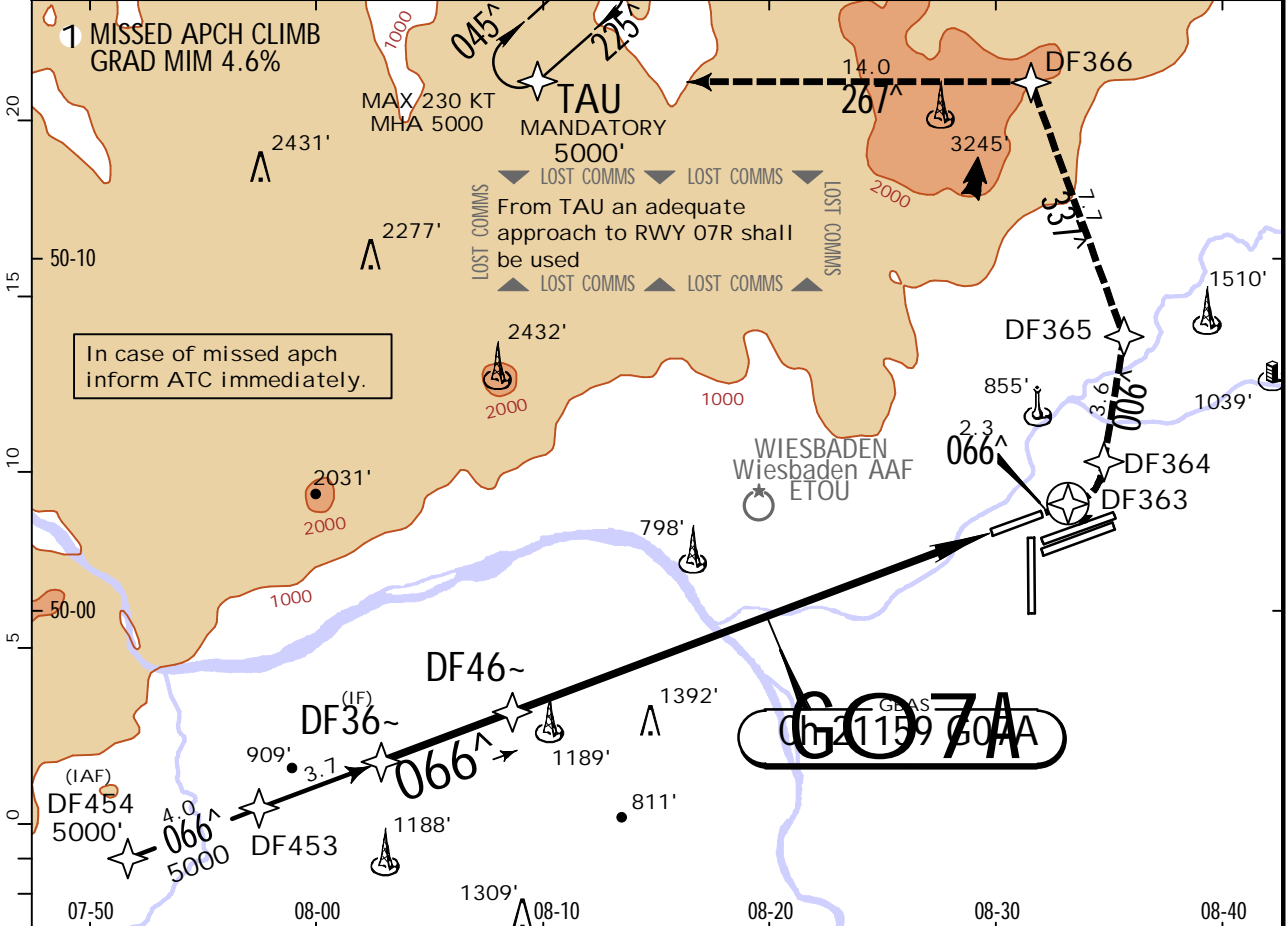
## FRANKFURT/MAIN

29 JUL 22 (12-40)

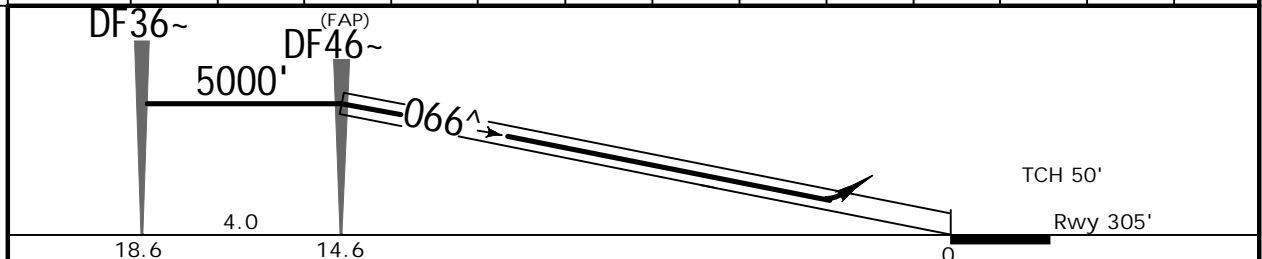
# JEPPESSEN FRANKFURT/MAIN, GERMANY

## 1 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 21159 G07A	Final Apch Crs 066 <sup>^</sup>	DF46~ 5000' (4695')	DA(H) Refer to Minimums	Apt Elev 364' Rwy 305'	4300  MSA ARP	
MISSED APCH: On 066 <sup>^</sup> to DF363, then turn LEFT direct to DF364, then to DF365, then to TAU climbing to 5000'.						
Alt Set: hPa (IN on req) Rwy Elev: 11 hPa Trans level: By ATC Trans alt: 5000'						
1. GPS 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	1.0
ALTITUDE	4500'	4180'	3860'	3540'	3230'	2910'	2590'	2270'	1950'	1630'	1320'	1000'	680'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	DF363 on 066 <sup>^</sup> DF364 LT	
Glide Path Angle	3.00 <sup>^</sup>	372	478	531	637	743			849

Standard. STRAIGHT-IN LANDING RWY 07L

GLS

Missed apch climb gradient mim 4.6% until passing 3500'

DA(H) ABC: 505' (200') D: 512' (207')

	FULL	IDZ or CL out	ALS out
A			
B	RVR 550m	RVR 550m 1	RVR 1200m
C			
D			



# EDDF/FRA

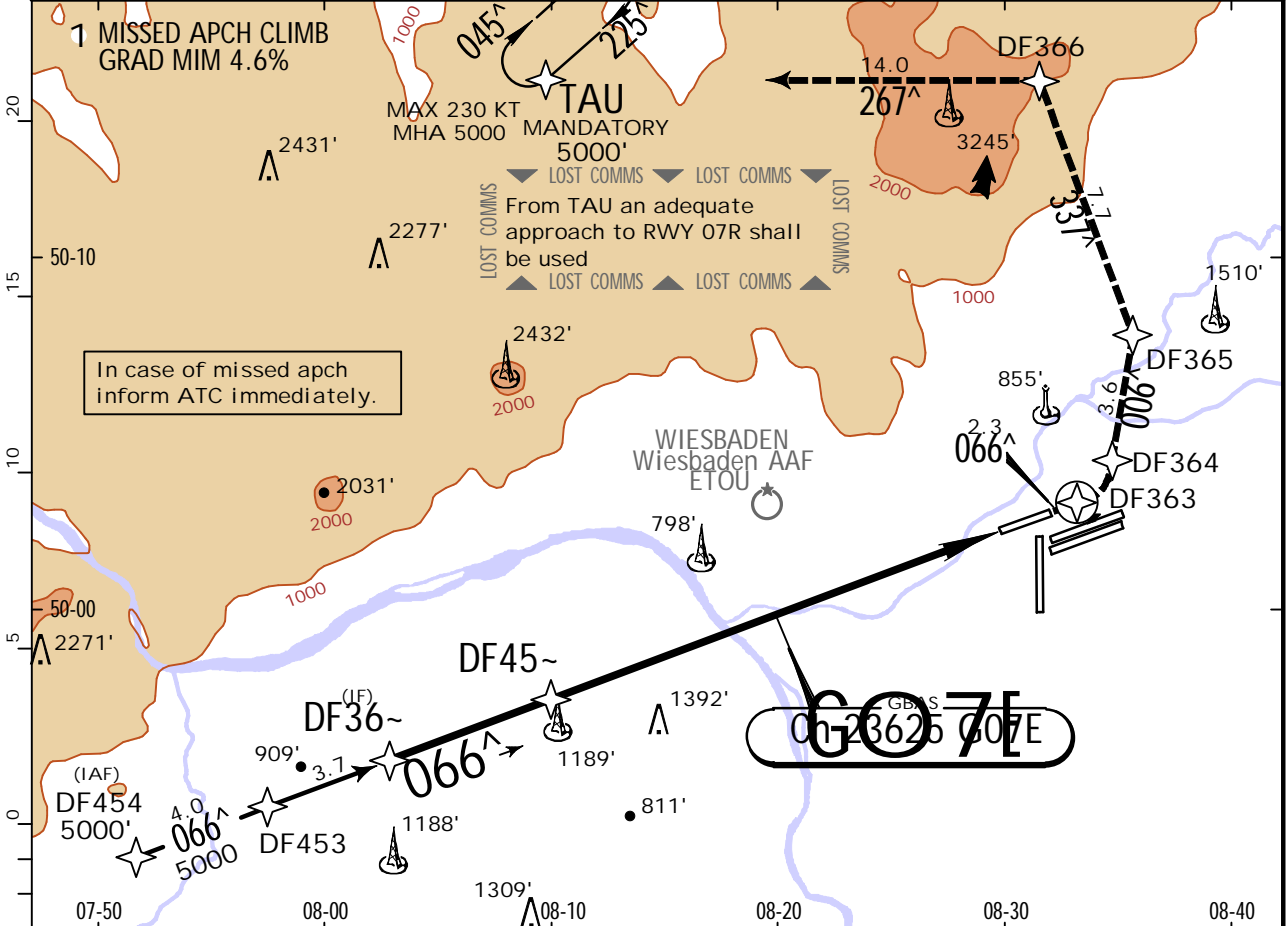
## FRANKFURT/MAIN

29 JUL 22 (12-41)

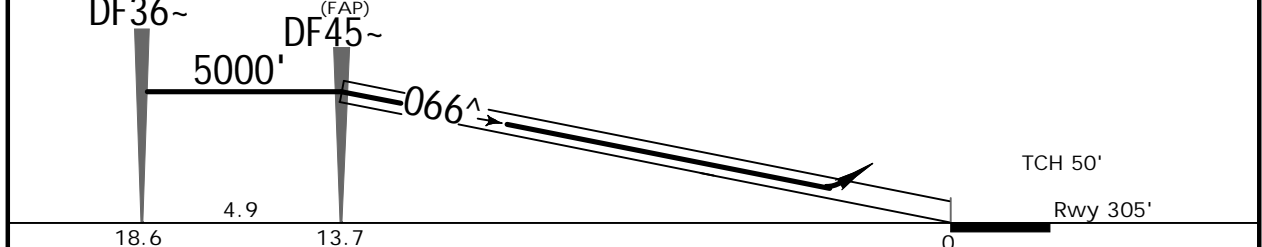
# JEPPESSEN FRANKFURT/MAIN, GERMANY

## 1 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 23625 G07E	Final Apch Crs 066 <sup>^</sup>	DF45~ 5000' (4695')	DA(H) Refer to Minimums	Apt Elev 364' Rwy 305'	4300  MSA ARP
MISSED APCH: On 066 <sup>^</sup> to DF363, then turn LEFT direct to DF364, then to DF365, then to TAU climbing to 5000'.					
Alt Set: hPa (IN on req) Rwy Elev: 11 hPa Trans level: By ATC Trans alt: 5000'					
1. GPS 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	1.0
ALTITUDE	4780'	4440'	4100'	3760'	3420'	3080'	2740'	2400'	2060'	1720'	1380'	1040'	700'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	DF363 on 066 <sup>^</sup> DF364 LT
Glide Path Angle	3.20 <sup>^</sup>	396	510	566	679	793		

Standard. STRAIGHT-IN LANDING RWY 07L

Missed apch climb gradient mim 4.6% until passing 3500'

DA(H) ABC: 505' (200') D: 512' (207')

	FULL	IDZ or CL out	ALS out
A			
B	RVR 550m	RVR 550m 1	RVR 1200m
C			
D			

1 RVR 750m when a Flight Director or Autopilot or HUD to DA is not used.

# EDDF/FRA

## FRANKFURT/MAIN

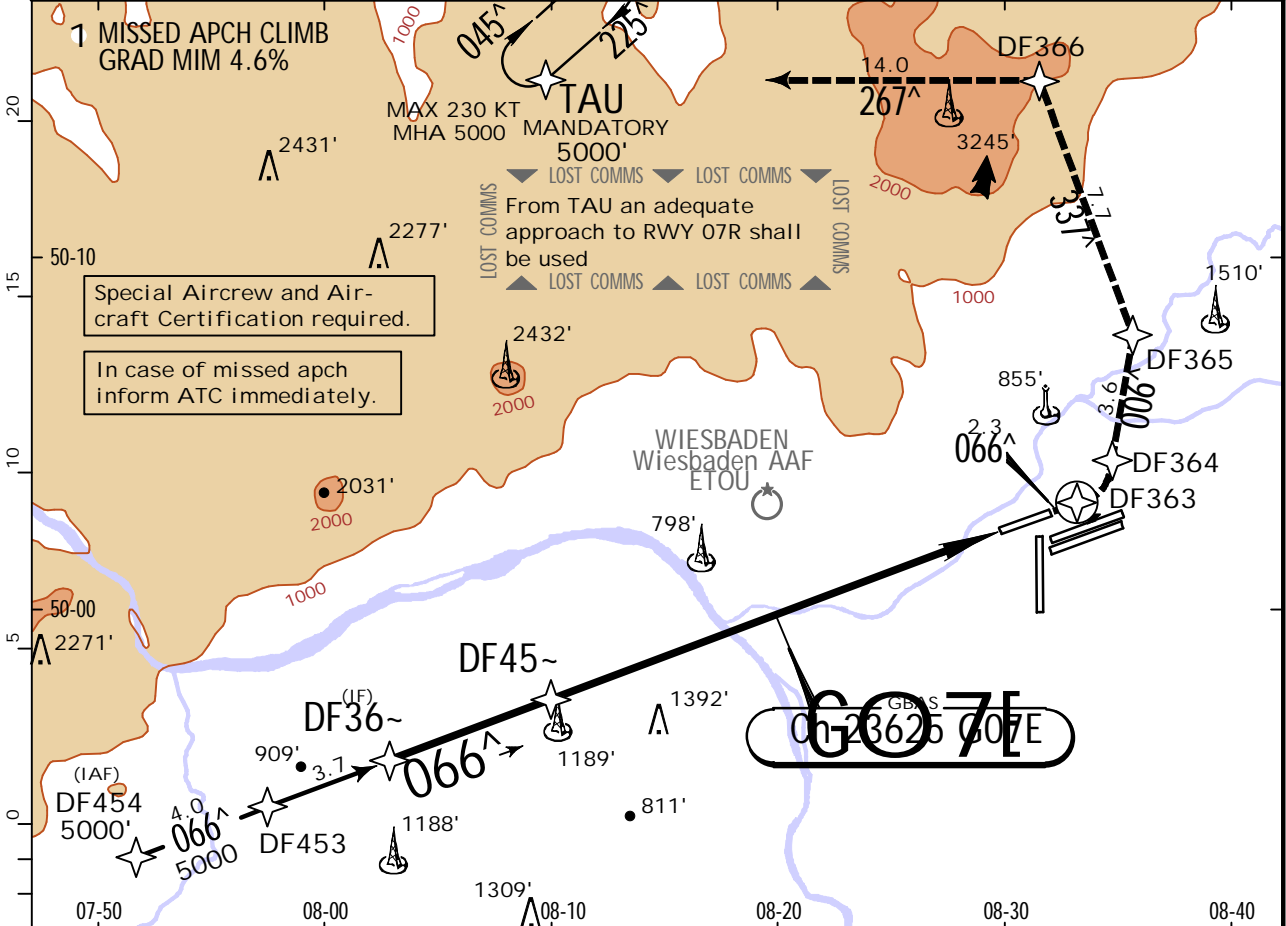
29 JUL 22

(12-41A)

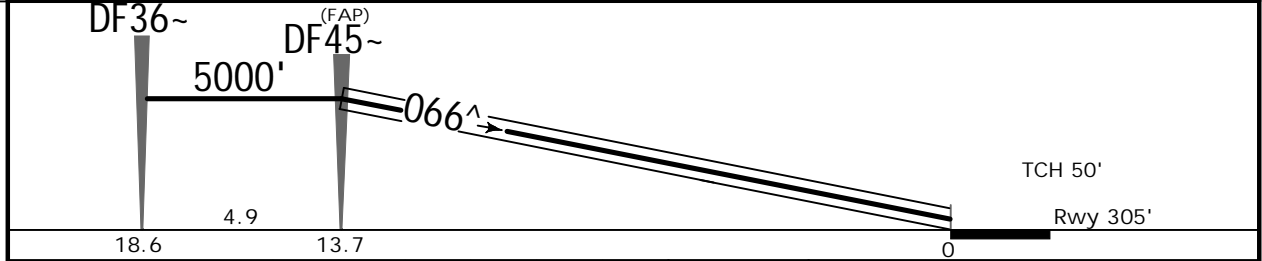
# JEPPESSEN FRANKFURT/MAIN, GERMANY

## 1 CAT II 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 23625 G07E	Final Apch Crs 066 <sup>^</sup>	DF45~ 5000' (4695')	CAT II GLS Refer to Minimums	Apt Elev 364' Rwy 305'	4300  MSA ARP
MISSED APCH: On 066 <sup>^</sup> to DF363, then turn LEFT direct to DF364, then to DF365, then to TAU climbing to 5000'.					
Alt Set: hPa (IN on req) Rwy Elev: 11 hPa Trans level: By ATC Trans alt: 5000'					
1. GPS 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	1.0
ALTITUDE	4780'	4440'	4100'	3760'	3420'	3080'	2740'	2400'	2060'	1720'	1380'	1040'	700'



Gnd speed-Kts	70	90	100	120	140	160	ALSIF-II REIL PAPI	DF363 on 066 <sup>^</sup> DF364 LT
Glide Path Angle	3.20 <sup>^</sup>	396	510	566	679	793		

Standard. STRAIGHT-IN LANDING RWY 07L  
Missed apch climb gradient mim 4.6% up to 3500'

A: RA 99' DA(H) 405' (100')	D: RA 131' DA(H) 437' (132')
B: RA 105' DA(H) 411' (106')	
C: RA 118' DA(H) 424' (119')	

RVR 300m	RVR 400m
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# EDDF/FRA

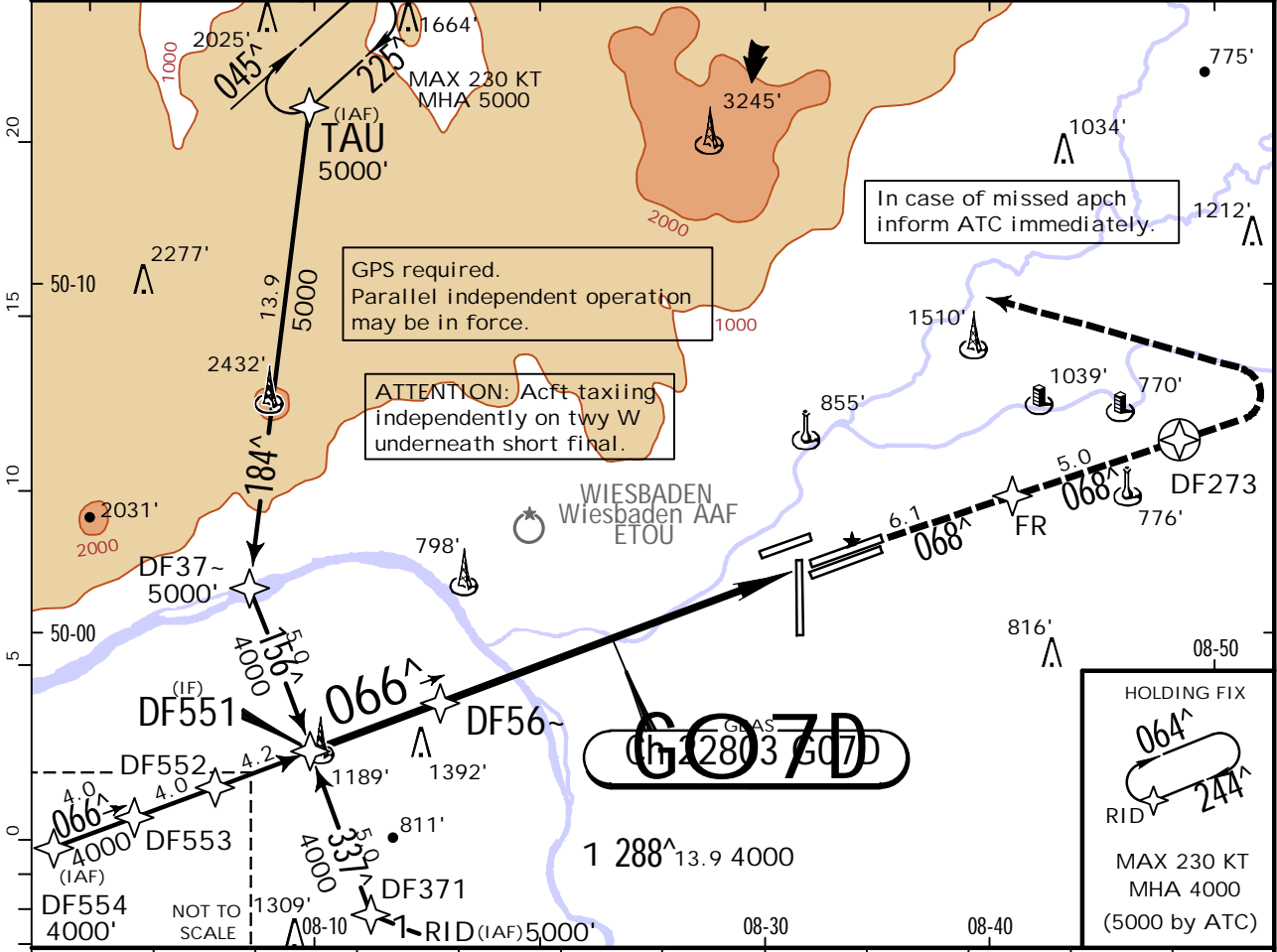
## FRANKFURT/MAIN

29 JUL 22 (12-42)

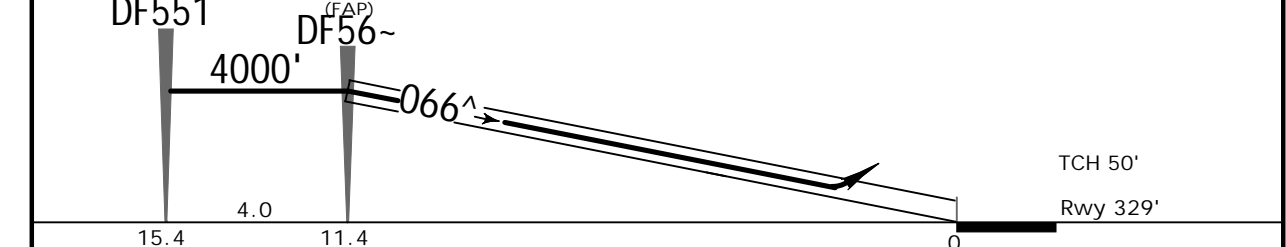
# JEPPESEN FRANKFURT/MAIN, GERMANY

## GLS Z Rwy 07C

BRIEFING STRIP™	*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
	GBAS Ch 22803 G07D	Final Apch Crs 066 <sup>^</sup>		DF56~ 4000' (3671')		DA(H) 529' (200')		Apt Elev 364' Rwy 329'
MISSED APCH: Climb on 068 <sup>^</sup> to FR, then to DF273 or 5000' whichever is later. Turn LEFT direct to TAU, maintain 5000'.								4300
Alt Set: hPa (IN on req) Rwy Elev: 12 hPa Trans level: By ATC Trans alt: 5000'								



DIST to THR	11.0	10.0	9.0	8.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0
ALTITUDE	3890'	3570'	3250'	2930'	2610'	2290'	1980'	1660'	1340'	1020'	700'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II	FR	068 <sup>^</sup>
Glide Path Angle	3.00 <sup>^</sup>	372	478	531	637	743			

Standard.			STRAIGHT-IN LANDING RWY 07C		
FULL			GLS DA(H) 529' (200')		
FULL		TDZ or CL out		ALS out	
A	RVR 550m		RVR 550m 1		RVR 1200m
B					
C					
D					

1 RVR 750m when a Flight Director or Autopilot or HUD to DA is not used.

CHANGES: Printing sequence. | JEPPESEN, 2014, 2022. ALL RIGHTS RESERVED.



# EDDF/FRA

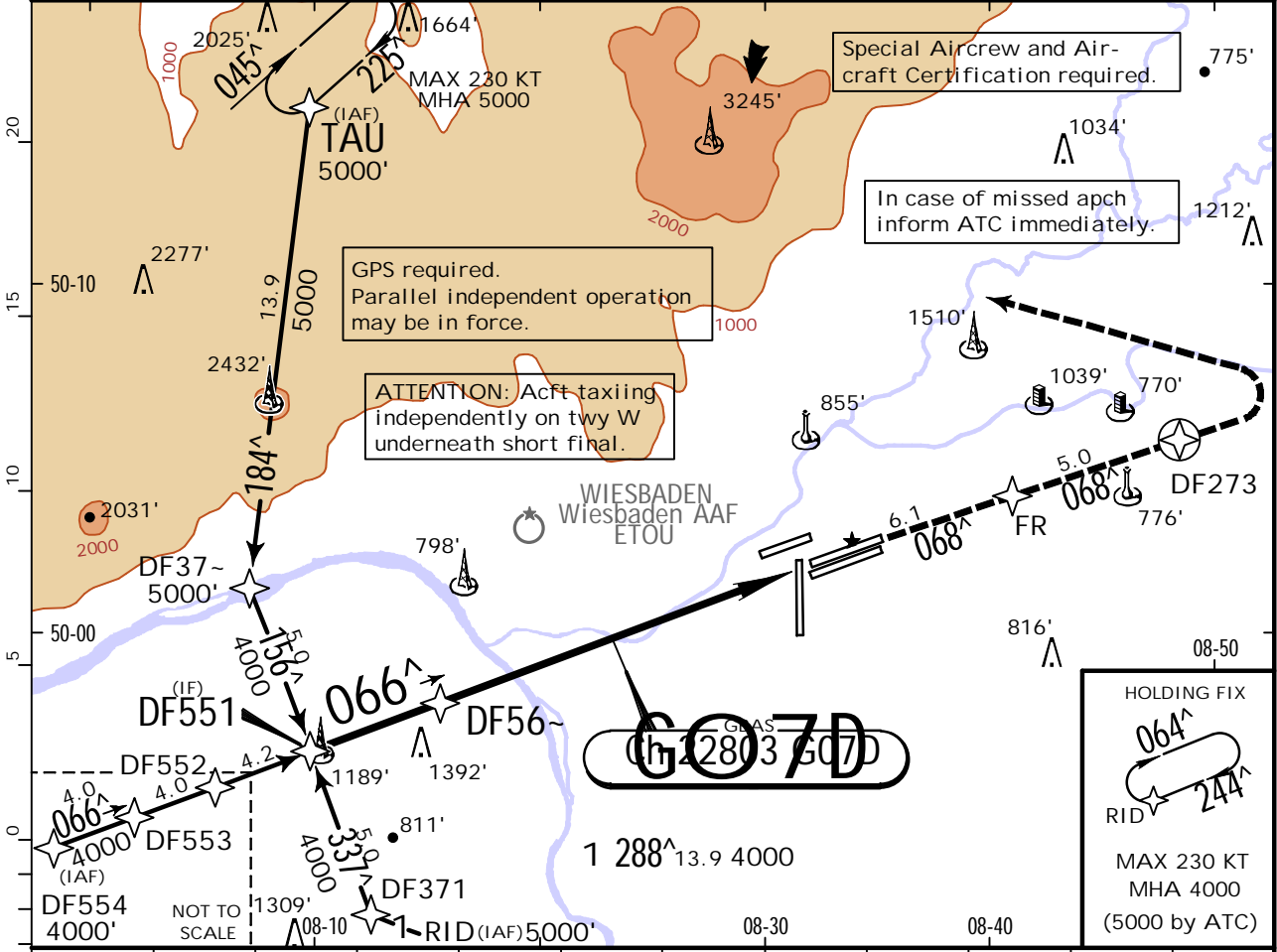
## FRANKFURT/MAIN

29 JUL 22 (12-42A)

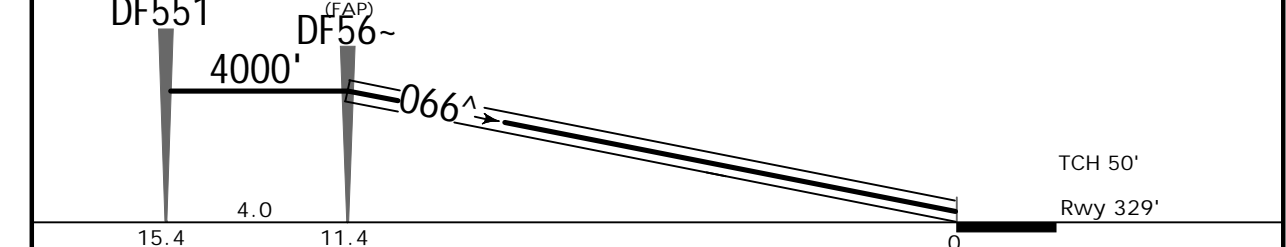
# JEPPESEN FRANKFURT/MAIN, GERMANY

## CAT II GLS Z Rwy 07C

BRIEFING STRIP™	*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 22803 G07D	Final Apch Crs 066 <sup>^</sup>	DF56~ 4000' (3671')	CAT II GLS RA 102' DA(H) 429' (100')		Apt Elev 364'	Rwy 329'	4300
MISSED APCH: Climb on 068 <sup>^</sup> to FR, then to DF273 or 5000' whichever is later. Turn LEFT direct to TAU, maintain 5000'.								
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	1.0
ALTITUDE	3890'	3570'	3250'	2930'	2610'	2290'	1980'	1660'	1340'	1020'	700'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II	FR on 068 <sup>^</sup>
Glide Path Angle	3.00 <sup>^</sup>	372	478	531	637	743		

.Standard. STRAIGHT-IN LANDING RWY 07C

RA 102'  
DA(H) 429' (100')

RVR 300m

# EDDF/FRA

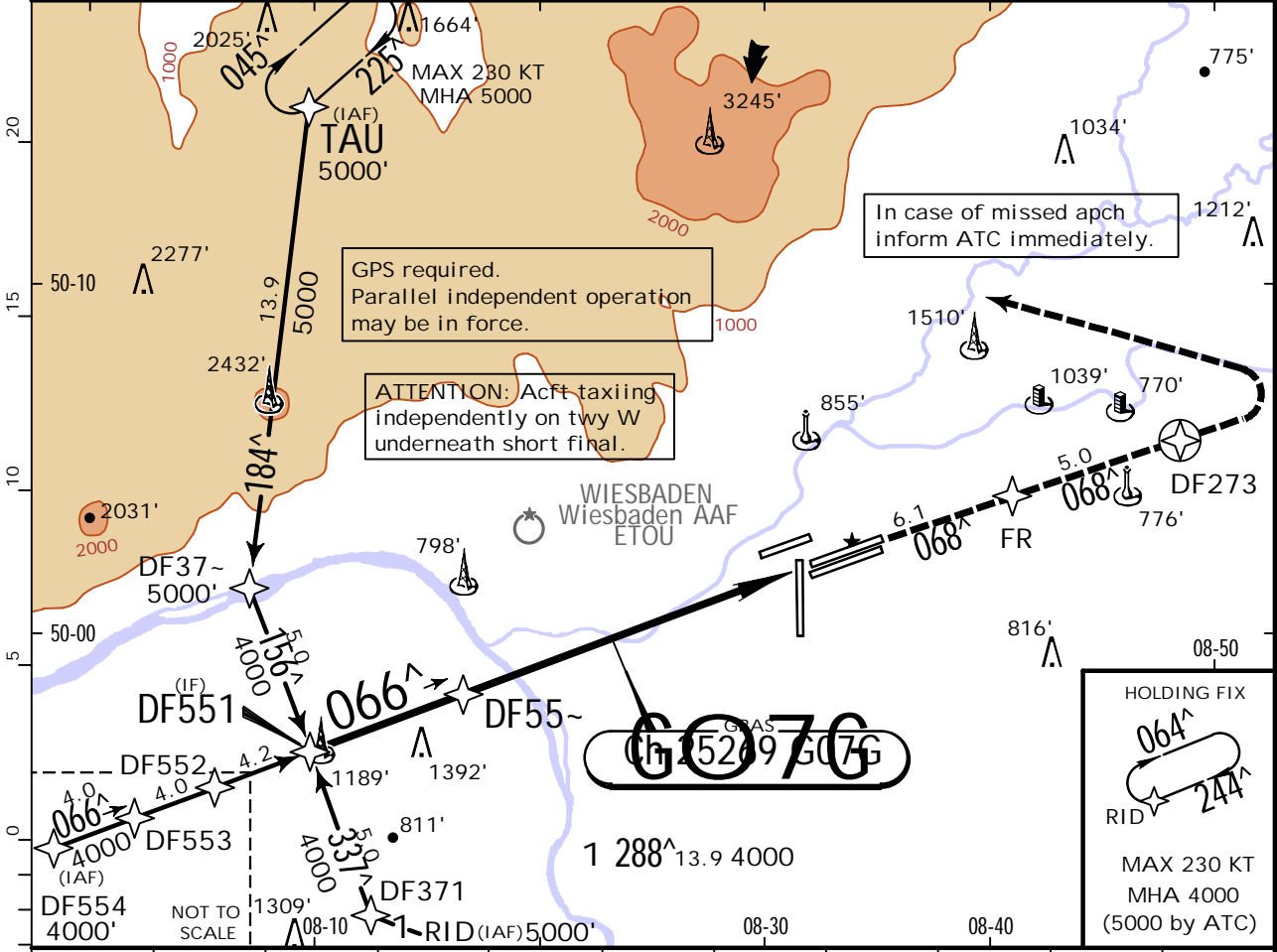
## FRANKFURT/MAIN

29 JUL 22 (12-43)

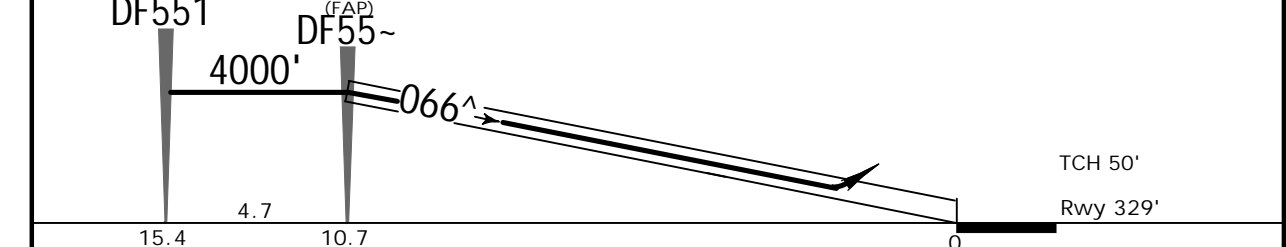
# JEPPESEN FRANKFURT/MAIN, GERMANY

## GLS Y Rwy 07C

BRIEFING STRIP™	*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
	GBAS Ch 25269 G07G	Final Apch Crs 066 <sup>^</sup>		DF55~ 4000' (3671')	DA(H) 529' (200')	Apt Elev 364'	Rwy 329'	4300
MISSED APCH: Climb on 068 <sup>^</sup> to FR, then to DF273 or 5000' whichever is later. Turn LEFT direct to TAU, maintain 5000'.								
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	1.0
ALTITUDE	3780'	3440'	3100'	2760'	2420'	2080'	1740'	1400'	1060'	720'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	FR ↑ on 068 <sup>^</sup>
Glide Path Angle	3.20 <sup>^</sup>	396	510	566	679	793		

Standard.			STRAIGHT-IN LANDING RWY 07C		
GLS			DA(H) 529' (200')		
FULL		TDZ or CL out		ALS out	
A	RVR 550m		RVR 550m 1		RVR 1200m
B					
C					
D					

1 RVR 750m when a Flight Director or Autopilot or HUD to DA is not used.

CHANGES: Printing sequence. | JEPPESEN, 2017, 2022. ALL RIGHTS RESERVED.

# EDDF/FRA

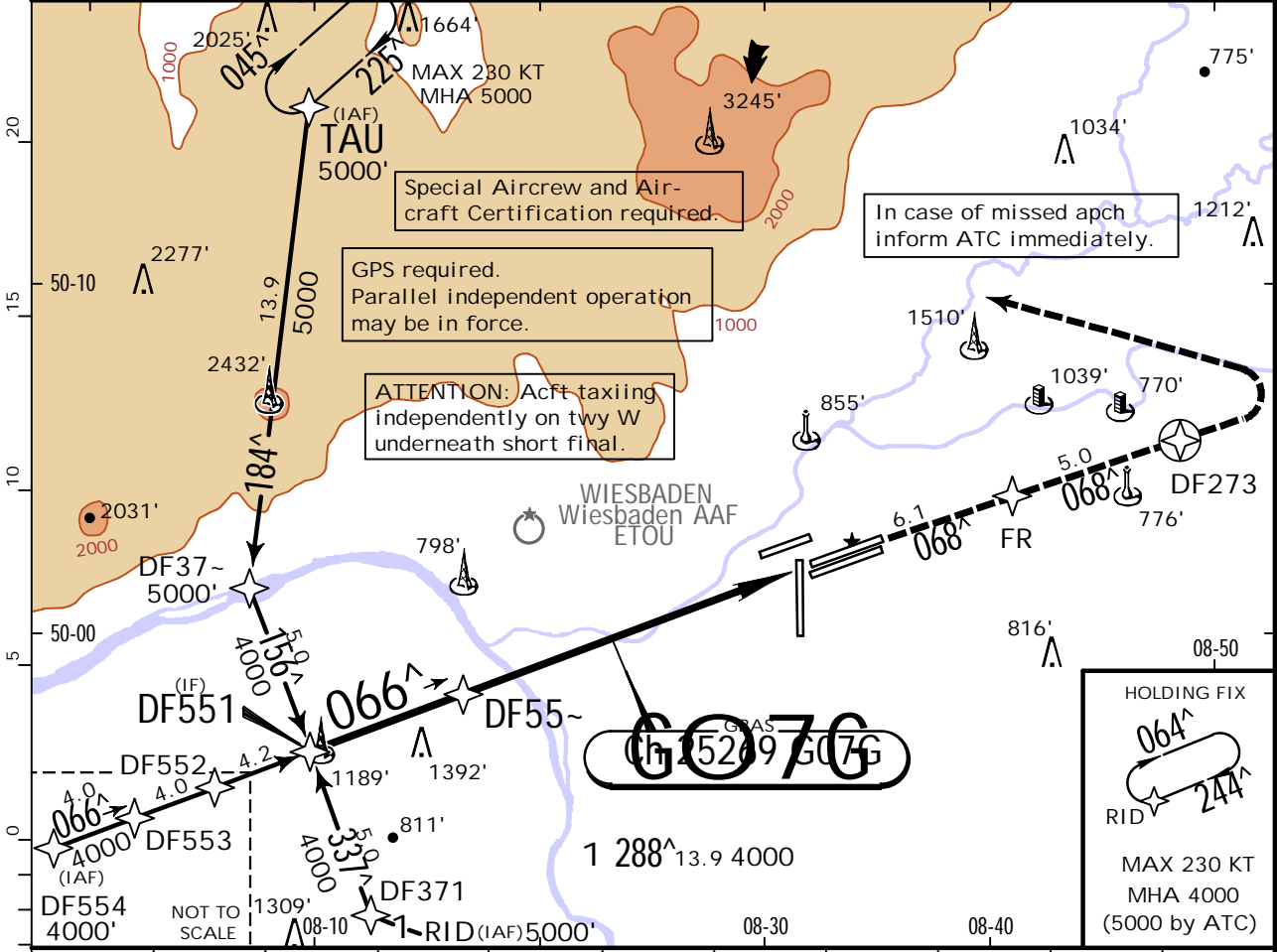
## FRANKFURT/MAIN

29 JUL 22 (12-43A)

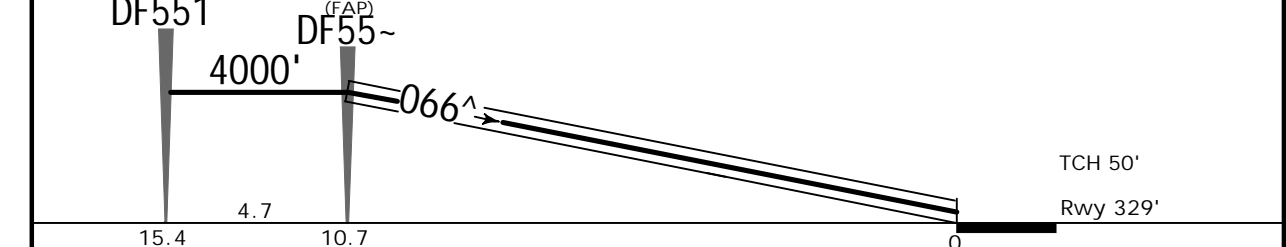
# JEPPesen FRANKFURT/MAIN, GERMANY

## 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 25269 G07G	Final Apch Crs 066 <sup>^</sup>	DF55~ 4000' (3671')	CAT II GLS RA 102' DA(H) 429'(100')		Apt Elev 364'	Rwy 329'	4300
MISSED APCH: Climb on 068 <sup>^</sup> to FR, then to DF273 or 5000' whichever is later. Turn LEFT direct to TAU, maintain 5000'.							
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	1.0
ALTITUDE	3780'	3440'	3100'	2760'	2420'	2080'	1740'	1400'	1060'	720'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	FR ↑ on 068 <sup>^</sup>
Glide Path Angle	3.20 <sup>^</sup>	396	510	566	679	793		

.Standard. STRAIGHT-IN LANDING RWY 07C

RA 102'  
DA(H) 429'(100')

RVR 300m

# EDDF/FRA

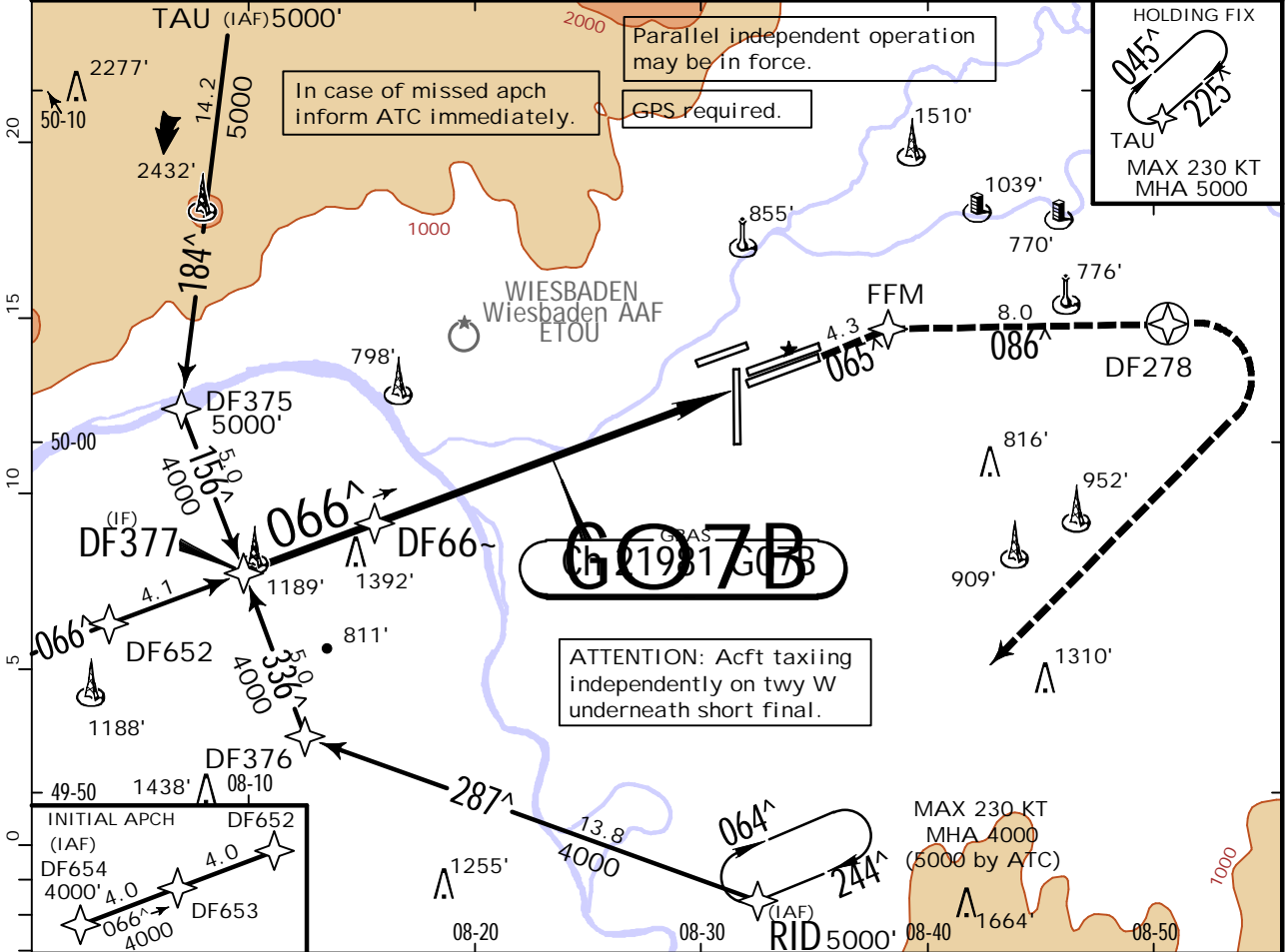
## FRANKFURT/MAIN

29 JUL 22 (12-44)

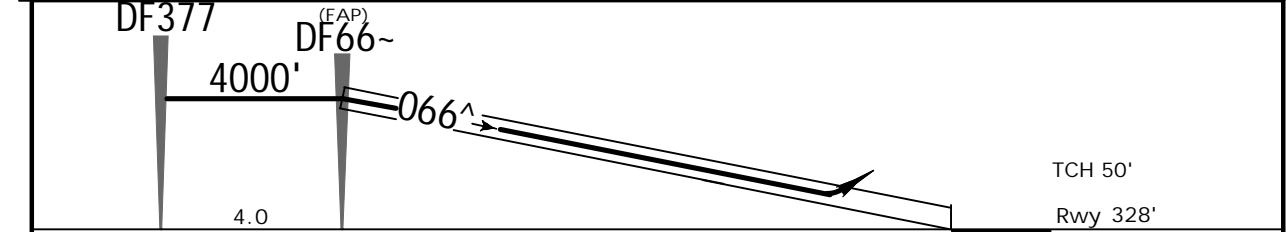
# JEPPESSEN FRANKFURT/MAIN, GERMANY

## GLS Z 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
GBAS Ch 21981 G07B	Final Apch Crs 066 <sup>^</sup>	DF66~ 4000' (3672')	DA(H) 528' (200')	Apt Elev 364' Rwy 328'	4300
MISSED APCH: Climb on 065 <sup>^</sup> to FFM, then to DF278 or 5000' whichever is later. Turn RIGHT direct to RID, maintain 5000'.					
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	1.0
ALTITUDE	3890'	3570'	3250'	2930'	2610'	2290'	1970'	1660'	1340'	1020'	700'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	FFM on 065 <sup>^</sup>
Glide Path Angle	3.00 <sup>^</sup>	372	478	531	637	743		

Standard. STRAIGHT-IN LANDING RWY 07R  
GLS DA(H) 528' (200')

FULL	IDZ or CL out	ALS out
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A	RVR 550m	RVR 550m 1	RVR 1200m
B			
C			
D			

1 RVR 750m when a Flight Director or Autopilot or HUD to DA is not used.  
CHANGES: Printing sequence. | JEPPESSEN, 2014, 2022. ALL RIGHTS RESERVED.

# EDDF/FRA

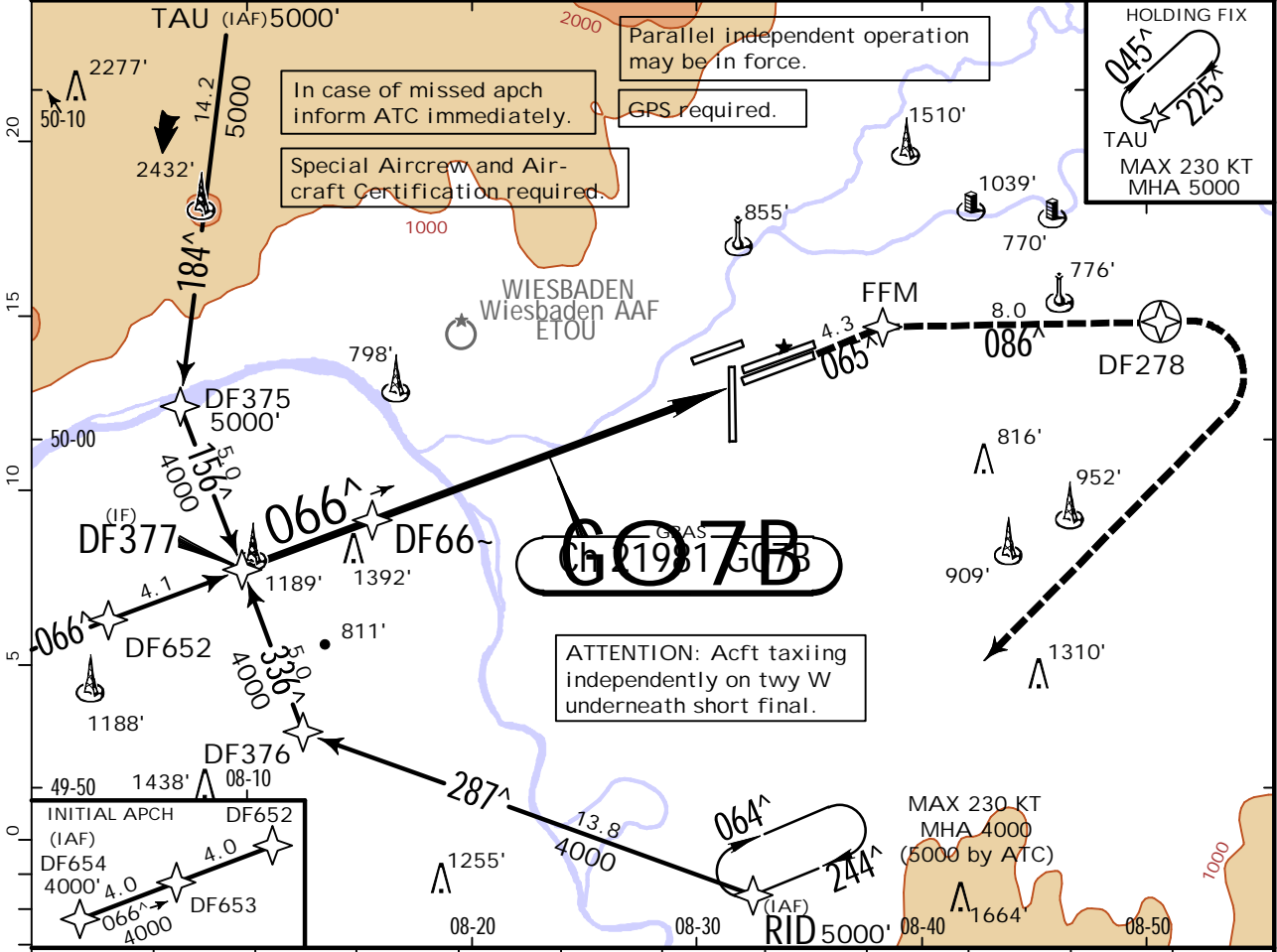
## FRANKFURT/MAIN

29 JUL 22 (12-44A)

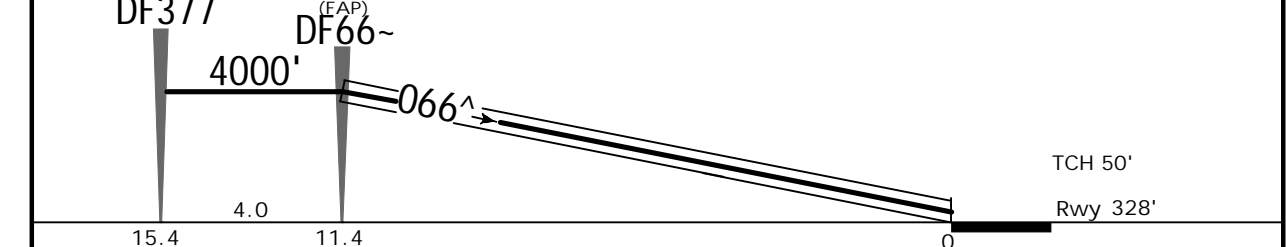
# JEPPESEN FRANKFURT/MAIN, GERMANY

## CAT II GLS Z 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
GBAS Ch 21981 G07B	Final Apch Crs 066 <sup>^</sup>	DF66~ 4000' (3672')	CAT II GLS RA 101' DA(H) 428' (100')	Apt Elev 364' Rwy 328'	4300
MISSED APCH: Climb on 065 <sup>^</sup> to FFM, then to DF278 or 5000' whichever is later. Turn RIGHT direct to RID, maintain 5000'.					
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	1.0
ALTITUDE	3890'	3570'	3250'	2930'	2610'	2290'	1970'	1660'	1340'	1020'	700'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	FFM on 065 <sup>^</sup>
Glide Path Angle	3.00 <sup>^</sup>	372	478	531	637	743		

Standard. STRAIGHT-IN LANDING RWY 07R

RA 101'  
DA(H) 428' (100')

RVR 300m

# EDDF/FRA

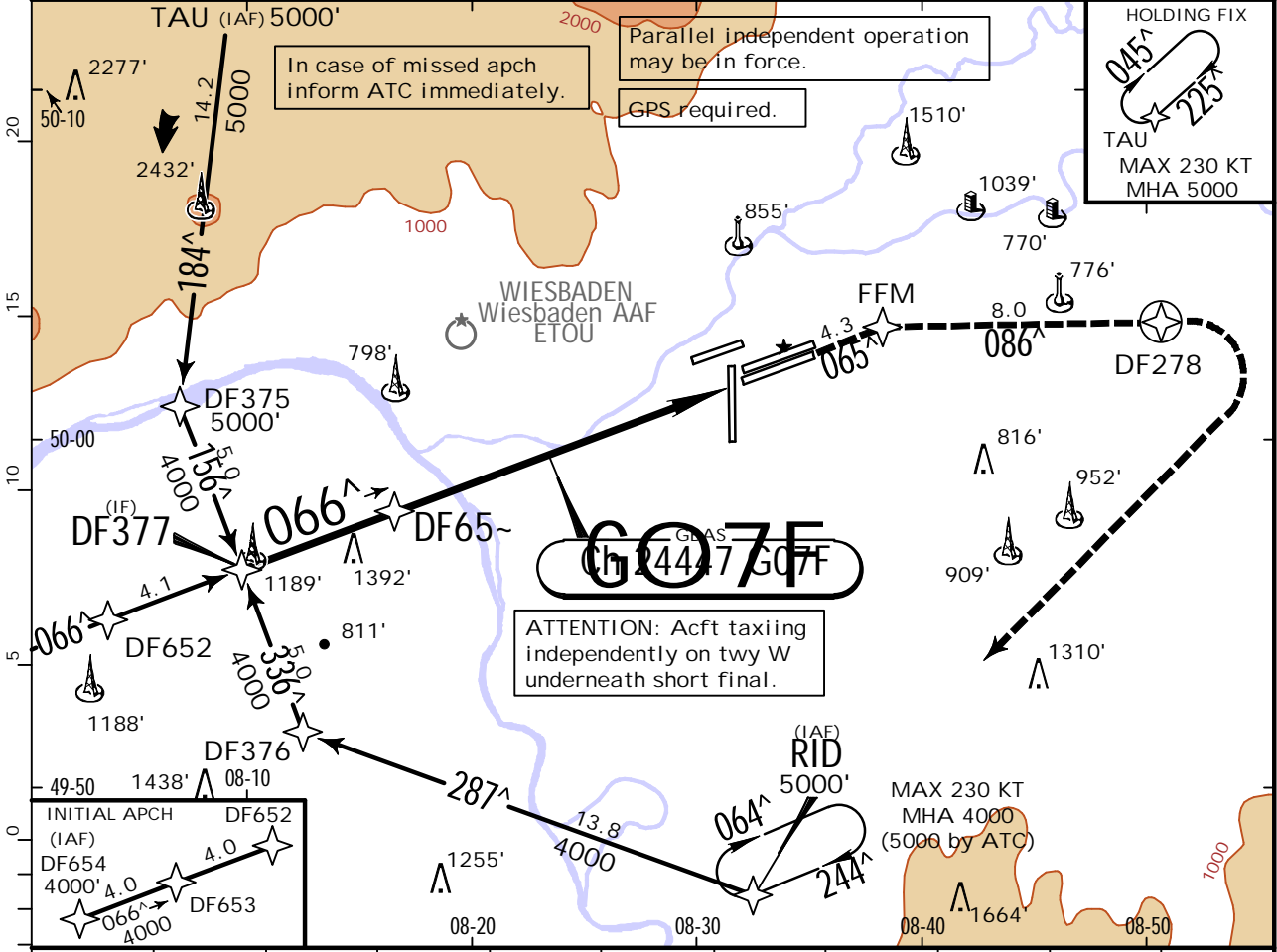
## FRANKFURT/MAIN

29 JUL 22 (12-45)

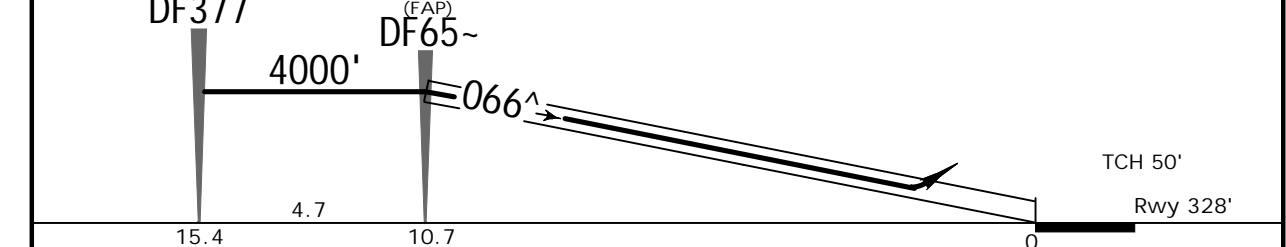
# JEPPESEN FRANKFURT/MAIN, GERMANY

## GLS Y Rwy 07R

BRIEFING STRIP™	*D-ATIS Arrival	LANGEN Radar (APP)		*FRANKFURT Director (APP)		FRANKFURT Tower		*Ground
	118.030	120.805	125.355	118.505	127.280	118.780	119.905	121.805
	GBAS Ch 24447 G07F	Final Apch Crs 066 <sup>^</sup>	DF65~ 4000' (3672')	DA(H) 528' (200')	Apt Elev 364' Rwy 328'	4300		
MISSED APCH: Climb on 065 <sup>^</sup> to FFM, then to DF278 or 5000' whichever is later. Turn RIGHT direct to RID, maintain 5000'.								
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	1.0
ALTITUDE	3780'	3440'	3100'	2760'	2420'	2080'	1740'	1400'	1060'	720'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	FFM on 065 <sup>^</sup>
Glide Path Angle	3.20 <sup>^</sup>	396	510	566	679	793		

Standard.			STRAIGHT-IN LANDING RWY 07R		
FULL			GLS DA(H) 528' (200')		
FULL		TDZ or CL out		ALS out	
A	RVR 550m		RVR 550m 1		RVR 1200m
B	RVR 550m		RVR 550m 1		RVR 1200m
C	RVR 550m		RVR 550m 1		RVR 1200m
D	RVR 550m		RVR 550m 1		RVR 1200m

1 RVR 750m when a Flight Director or Autopilot or HUD to DA is not used.  
 CHANGES: Printing sequence. | JEPPESEN, 2017, 2022. ALL RIGHTS RESERVED.



# EDDF/FRA

## FRANKFURT/MAIN

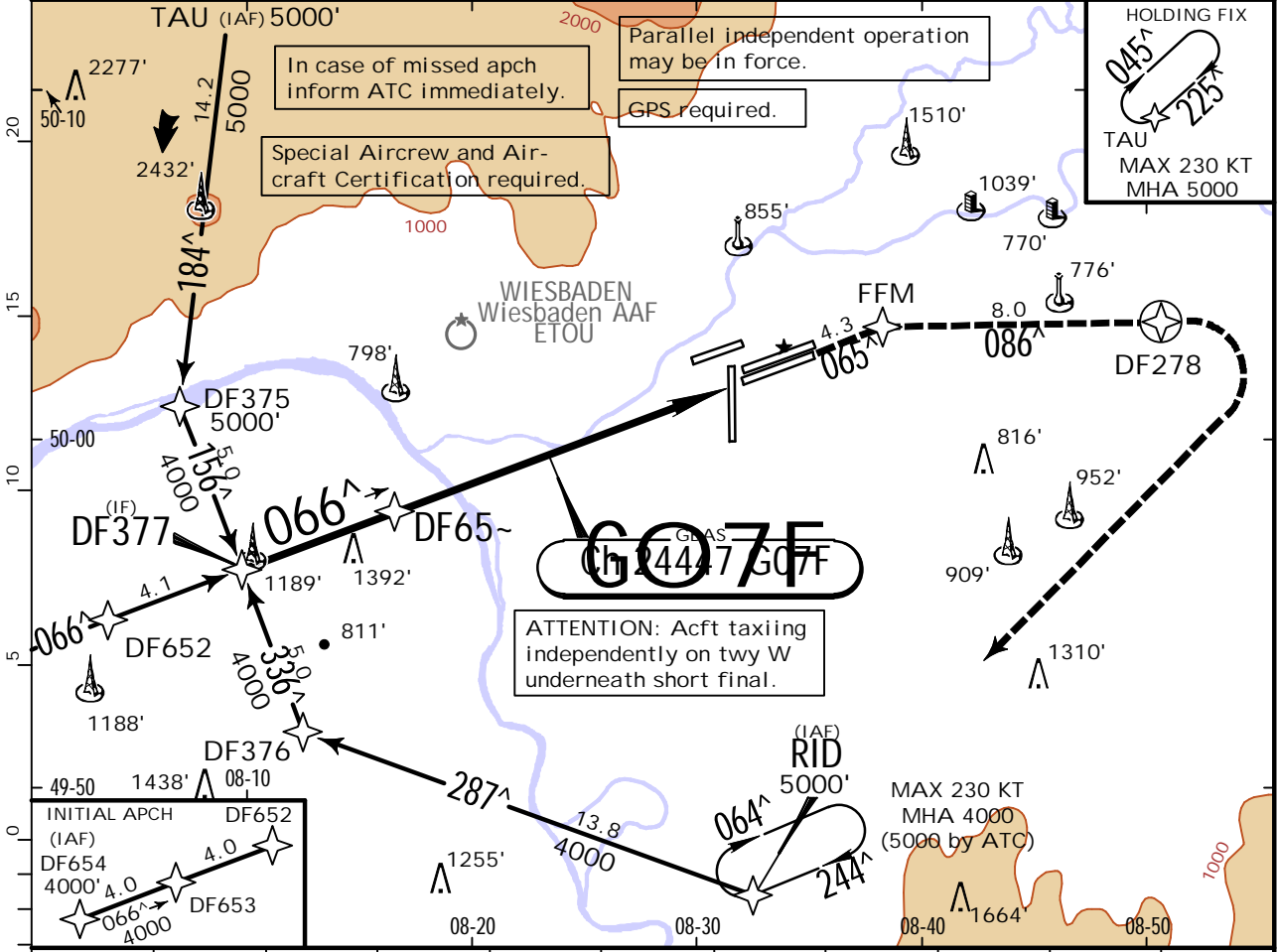
29 JUL 22

12-45A

# JEPPESEN FRANKFURT/MAIN, GERMANY

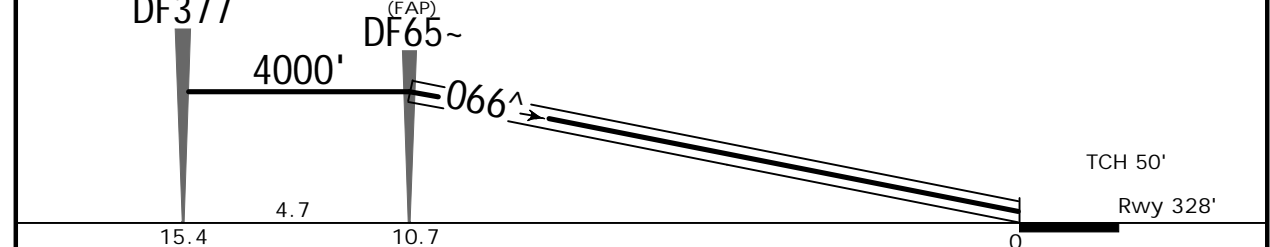
## CAT II GLS Y Rwy 07R

*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
GBAS Ch 24447 G07F	Final Apch Crs 066 <sup>^</sup>	DF65~ 4000' (3672')	CAT II GLS RA 101' DA(H) 428'(100')	Apt Elev 364' Rwy 328'	4300
MISSED APCH: Climb on 065 <sup>^</sup> to FFM, then to DF278 or 5000' whichever is later. Turn RIGHT direct to RID, maintain 5000'.					
Alt Set: hPa (IN on req) Rwy Elev: 12 hPa Trans level: By ATC Trans alt: 5000'					MSA ARP



INITIAL APCH (IAF)	DF652
DF654	4000' 4.0
DF653	4000' 066 <sup>^</sup> 4.0

DIST to THR	10.0	9.0	8.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0
ALTITUDE	3780'	3440'	3100'	2760'	2420'	2080'	1740'	1400'	1060'	720'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	FFM on 065 <sup>^</sup>
Glide Path Angle	3.20 <sup>^</sup>	396	510	566	679	793		

Standard. STRAIGHT-IN LANDING RWY 07R

RA 101'  
DA(H) 428'(100')

RVR 300m

# EDDF/FRA

## FRANKFURT/MAIN

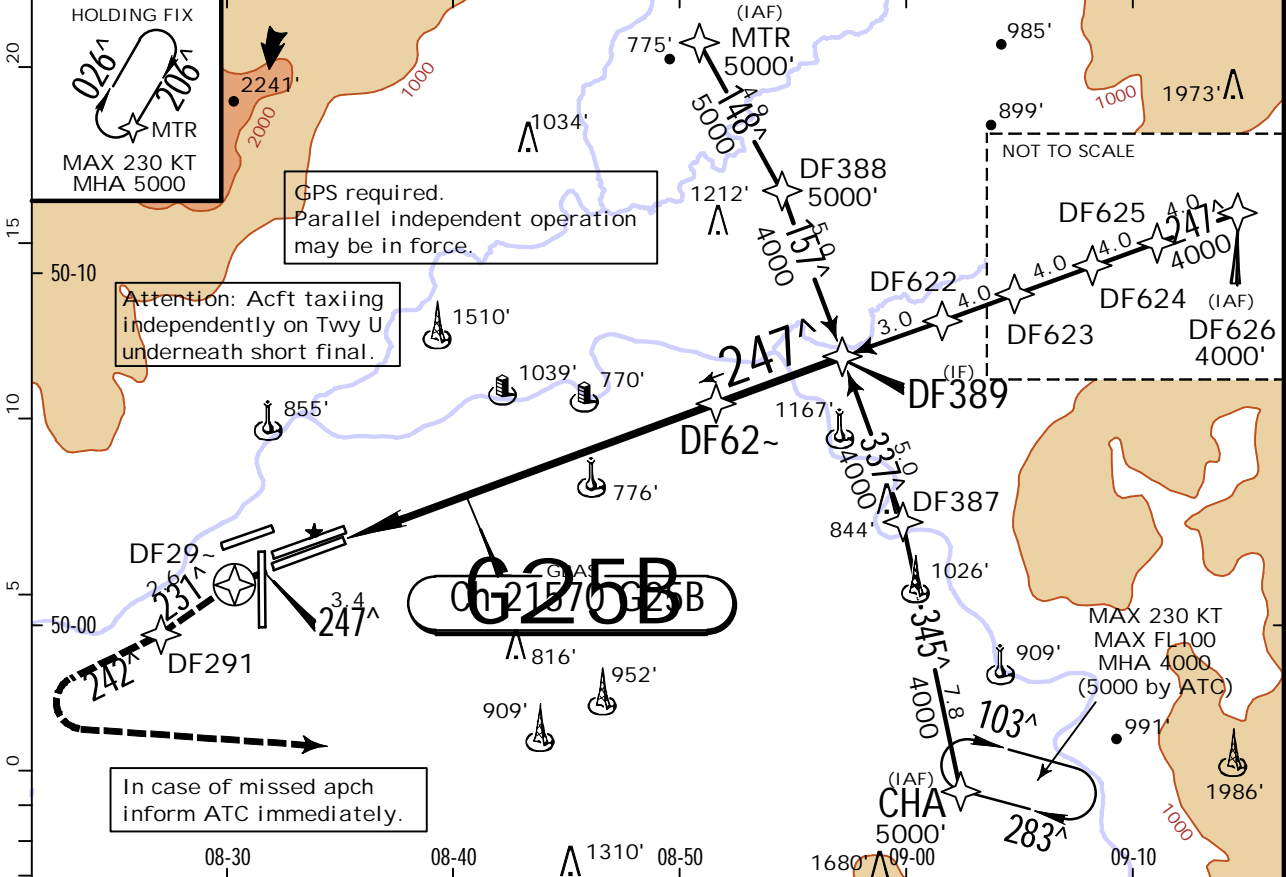
29 JUL 22 (12-46)

# JEPPESEN FRANKFURT/MAIN, GERMANY

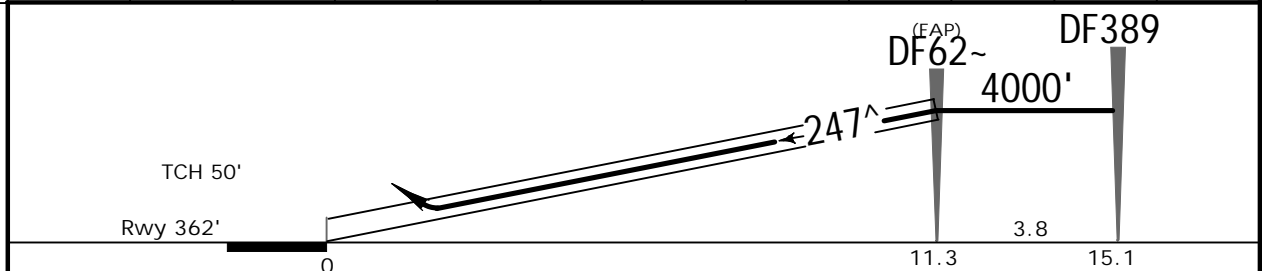
## GLS Z Rwy 25L

*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 21570 G25B	Final Apch Crs 247^	DF62~ 4000' (3638')	DA(H) 562' (200')	Apt Elev 364'	Rwy 362'	4300 MSA ARP		
MISSED APCH: Climb on 247^ to DF29~, then to DF291. Then on 242^ climb to 5000', then turn LEFT direct to CHA and maintain 5000'.								

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



DIST to THR	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0
ALTITUDE	740'	1050'	1370'	1690'	2010'	2330'	2650'	2960'	3280'	3600'	3920'



ALSF-II	DF29~	247^
REIL	↑	on
PAPI		

Standard. STRAIGHT-IN LANDING RWY 25L  
GLS 1  
DA(H) 562' (200')

FULL	IDZ or CL out	ALS out
------	---------------	---------

A			
B			
C	RVR 550m	RVR 550m 2	RVR 1200m
D			

1 LACFT: DA(H) 589' (227'). 2 RVR 750m when a Flight Director or Autopilot or HUD to DA is not used.

# EDDF/FRA

## FRANKFURT/MAIN

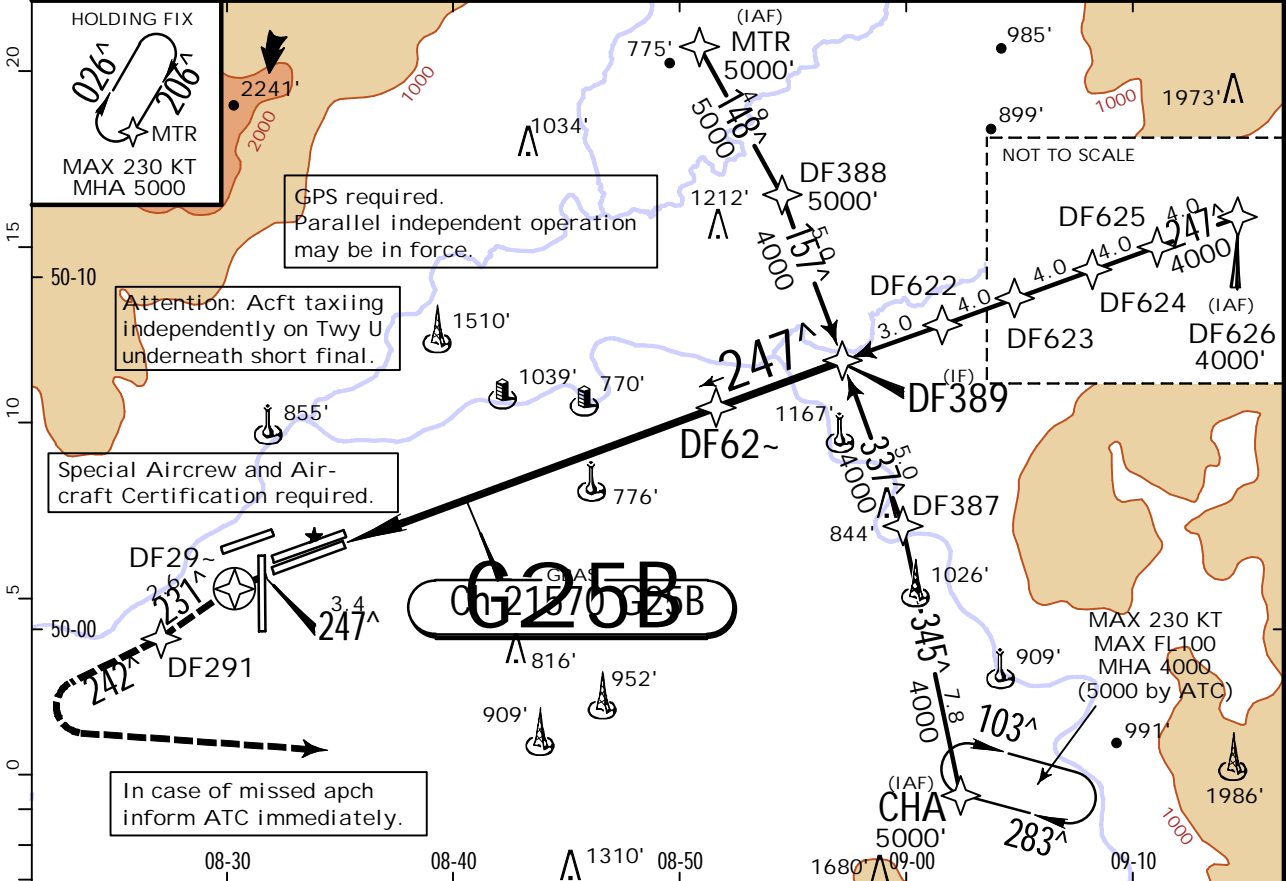
29 JUL 22 (12-46A)

# JEPPESEN FRANKFURT/MAIN, GERMANY

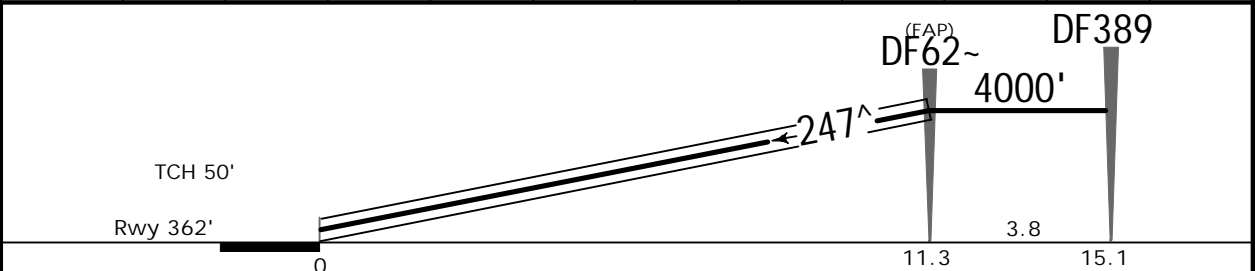
## CAT II GLS Z Rwy 25L

*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
GBAS Ch 21570 G25B	Final Apch Crs 247 <sup>^</sup>	DF62~ 4000' (3638')	CAT II GLS RA 95' DA(H) 462' (100')		Apt Elev 364' Rwy 362'	4300 MSA ARP
MISSED APCH: Climb on 247 <sup>^</sup> to DF29~, then to DF291. Then on 242 <sup>^</sup> climb to 5000', then turn LEFT direct to CHA and maintain 5000'.						

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



DIST to THR	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0
ALTITUDE	740'	1050'	1370'	1690'	2010'	2330'	2650'	2960'	3280'	3600'	3920'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	DF29~ ↑ on 247 <sup>^</sup>
Glide Path Angle	3.00 <sup>^</sup>	372	478	531	637	743		

.Standard.      STRAIGHT-IN LANDING RWY 25L

RA 95'  
DA(H) 462' (100')

RVR 300m

PANS OPS

# EDDF/FRA

## FRANKFURT/MAIN

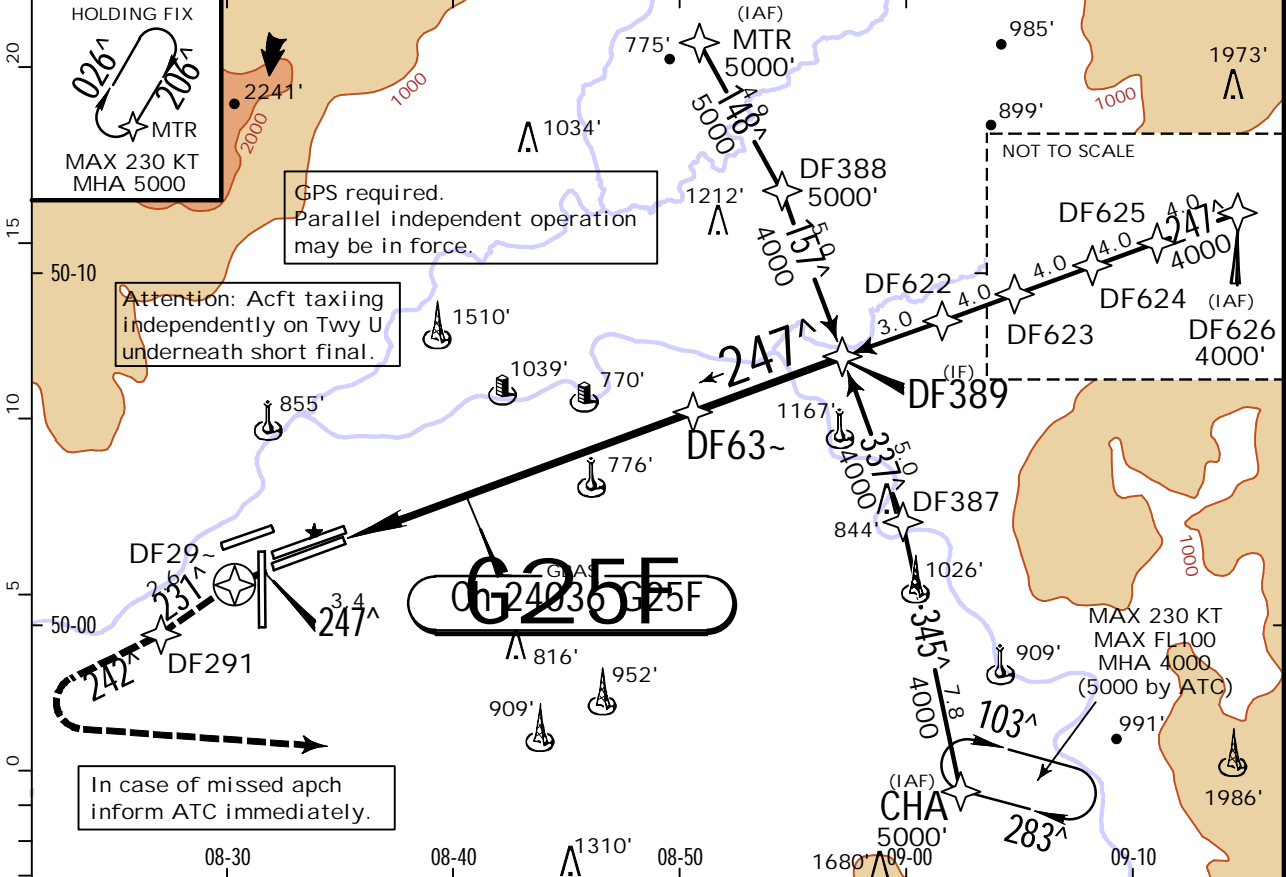
29 JUL 22 (12-47)

# JEPPESEN FRANKFURT/MAIN, GERMANY

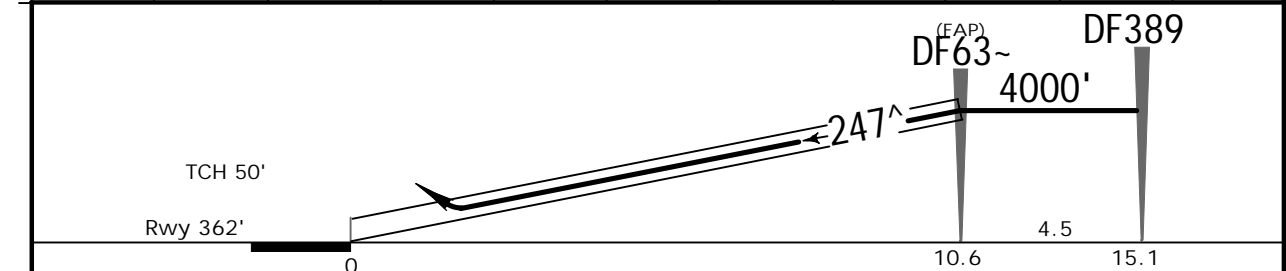
## GLS Y Rwy 25L

*D-ATIS Arrival	LANGEN Radar (APP)		*FRANKFURT Director (APP)		FRANKFURT Tower		*Ground
118.030	120.805	125.355	118.505	127.280	118.780	119.905	121.805
GBAS Ch 24036 G25F	Final Apch Crs 247 <sup>^</sup>	DF63~ 4000' (3638')	DA(H) 562' (200')	Apt Elev 364'	Rwy 362'	4300	
MISSED APCH: Climb on 247 <sup>^</sup> to DF29~, then to DF291. Then on 242 <sup>^</sup> climb to 5000', then turn LEFT direct to CHA and maintain 5000'.						MSA ARP	

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



DIST to THR	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
ALTITUDE	760'	1100'	1440'	1780'	2120'	2450'	2790'	3130'	3470'	3810'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	DF29~ on 247 <sup>^</sup>	
Glide Path Angle	3.20 <sup>^</sup>	396	510	566	679	793			906

Standard.			STRAIGHT-IN LANDING RWY 25L						
FULL			IDZ or CL out			ALS out			
A									
B									
C	RVR 550m			RVR 550m 1			RVR 1200m		
D									

1 RVR 750m when a Flight Director or Autopilot or HUD to DA is not used.

CHANGES: Printing sequence. | JEPPESEN, 2017, 2022. ALL RIGHTS RESERVED.

# EDDF/FRA

## FRANKFURT/MAIN

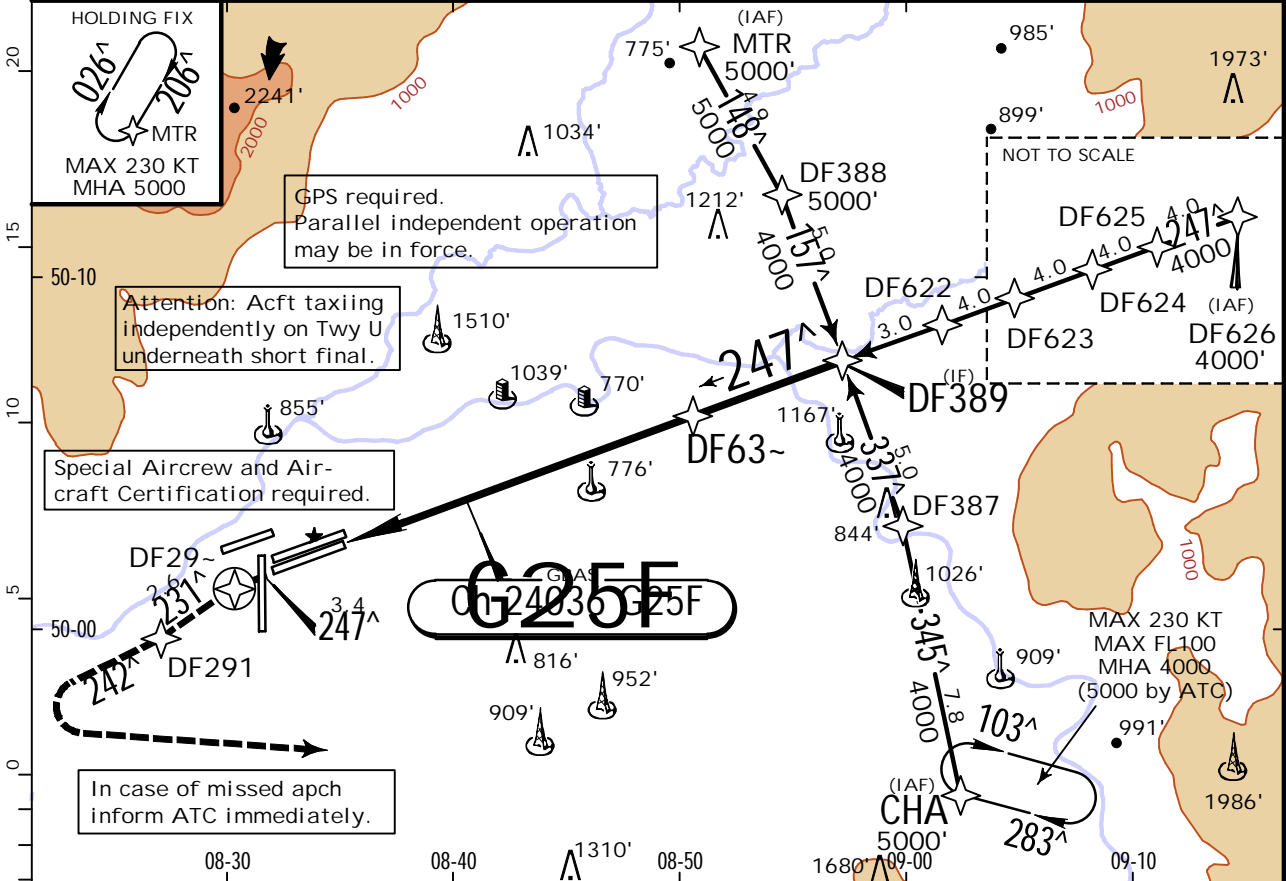
29 JUL 22 (12-47A)

# JEPPESEN FRANKFURT/MAIN, GERMANY

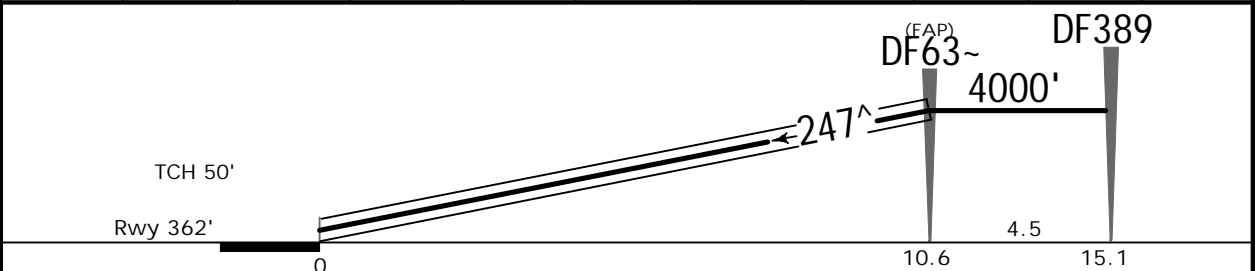
## CAT II GLS Y Rwy 25L

*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
GBAS Ch 24036 G25F	Final Apch Crs 247 <sup>^</sup>	DF63~ 4000' (3638')	CAT II GLS RA 95' DA(H) 462' (100')	Apt Elev 364' Rwy 362'
MISSED APCH: Climb on 247 <sup>^</sup> to DF29~, then to DF291. Then on 242 <sup>^</sup> climb to 5000', then turn LEFT direct to CHA and maintain 5000'.				4300 MSA ARP

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



DIST to THR	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
ALTITUDE	760'	1100'	1440'	1780'	2120'	2450'	2790'	3130'	3470'	3810'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	DF29~ on 247 <sup>^</sup>	
Glide Path Angle	3.20 <sup>^</sup>	396	510	566	679	793			906

.Standard. STRAIGHT-IN LANDING RWY 25L

RA 95'  
DA(H) 462' (100')

RVR 300m

PANS OPS

# EDDF/FRA

## FRANKFURT/MAIN

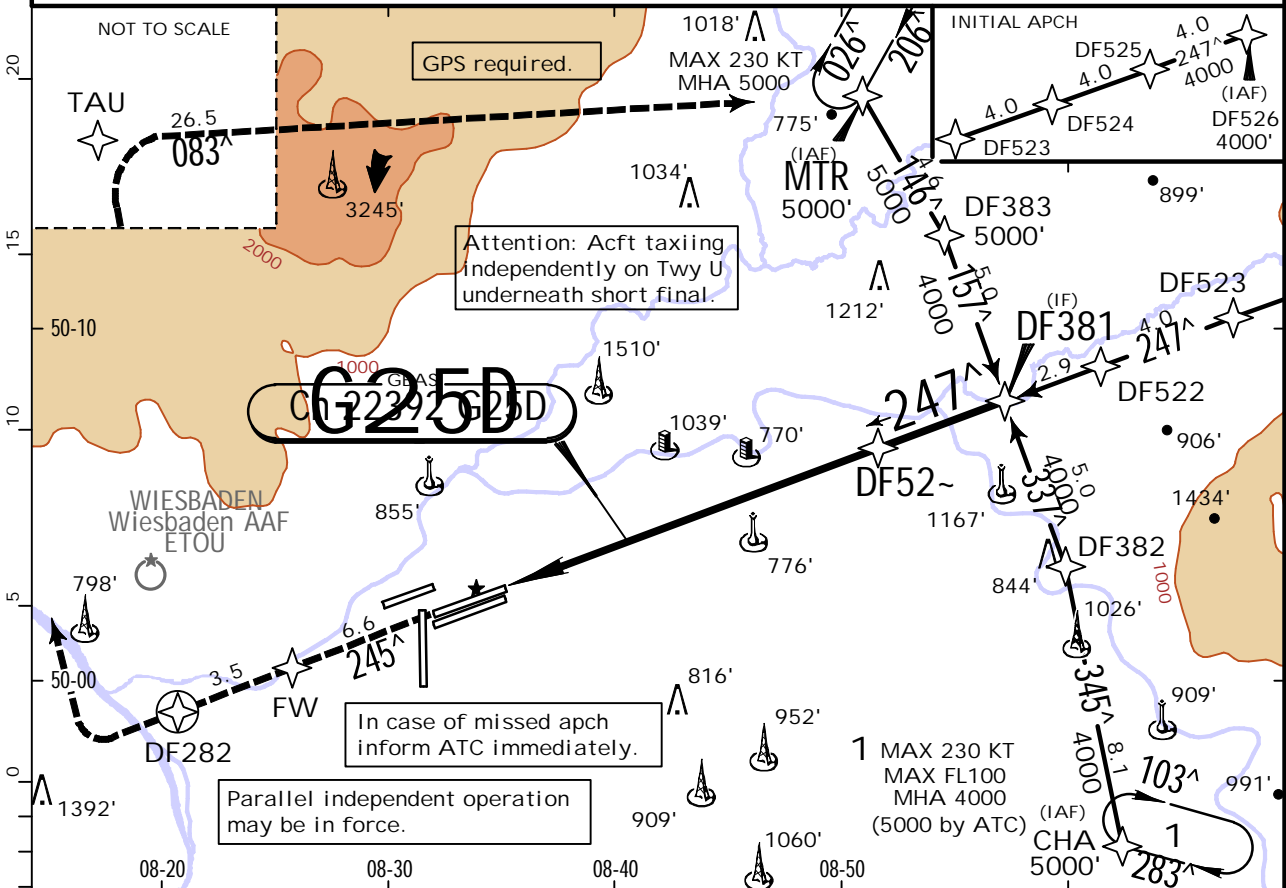
29 JUL 22 (12-48)

# JEPPESEN FRANKFURT/MAIN, GERMANY

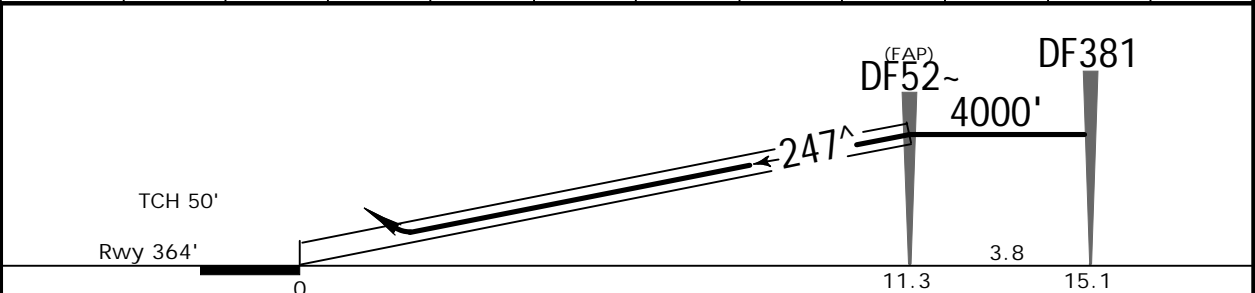
## GLS Z Rwy 25C

*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 22392 G25D	Final Apch Crs 247 <sup>^</sup>	DF52- 4000' (3636')	DA(H) 564' (200')	Apt Elev 364' Rwy 364'			
MISSED APCH: Climb on 245 <sup>^</sup> to FW, then to DF282 or 5000', whichever is later, then turn RIGHT direct to TAU. Turn RIGHT to MTR and maintain 5000'.							

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



DIST to THR	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0
ALTITUDE	740'	1060'	1370'	1690'	2010'	2330'	2650'	2970'	3280'	3600'	3920'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	FW on 245 <sup>^</sup>
Glide Path Angle	3.00 <sup>^</sup>	372	478	531	637	743		

Standard. STRAIGHT-IN LANDING RWY 25C

FULL		GLS DA(H) 564' (200')	IDZ or CL out	ALS out
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A	RVR 550m	RVR 550m 1	RVR 1200m
B			
C			
D			

1 RVR 750m when a Flight Director or Autopilot or HUD to DA is not used.



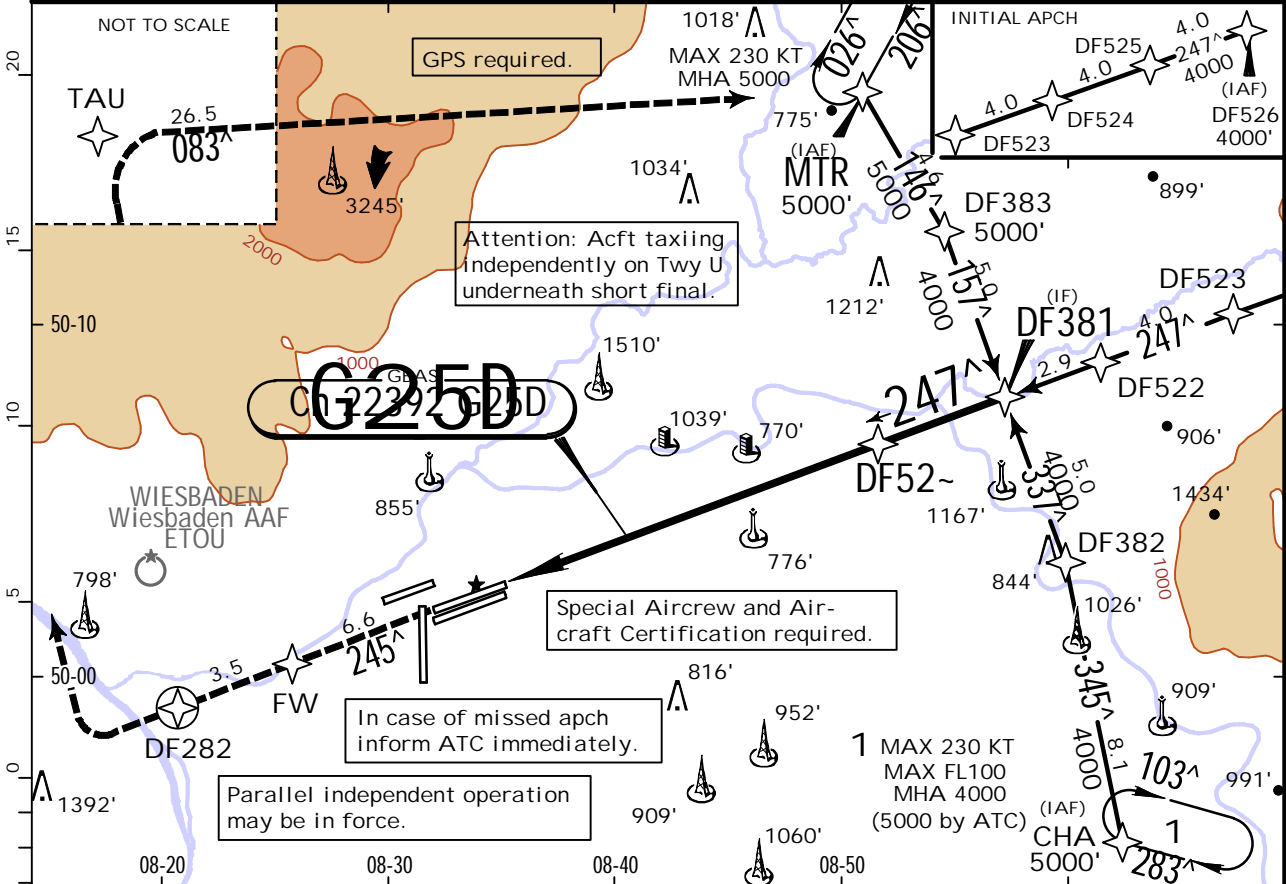
**EDDF/FRA**  
FRANKFURT/MAIN

29 JUL 22 (12-48A)

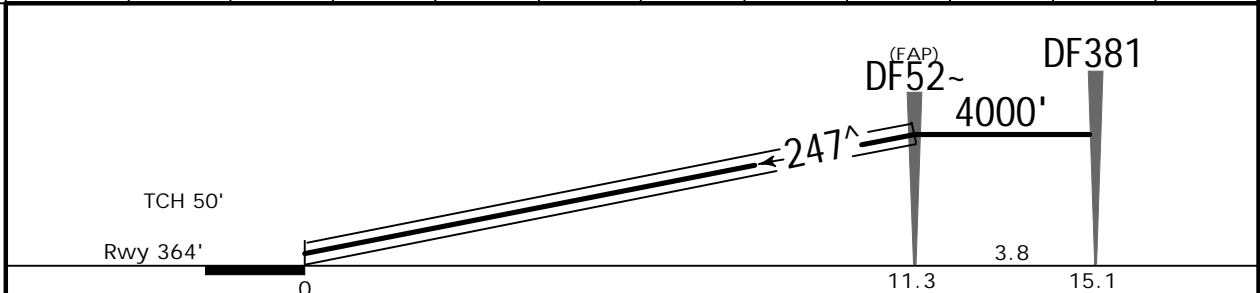
**JEPPESEN FRANKFURT/MAIN, GERMANY**  
CAT II GLS Z Rwy 25C

*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 22392 G25D	Final Apch Crs 247 <sup>^</sup>	DF52~ 4000' (3636')	CAT II GLS RA 98' DA(H) 464'(100')	Apt Elev 364' Rwy 364'	4300 MSA ARP
MISSED APCH: Climb on 245 <sup>^</sup> to FW, then to DF282 or 5000', whichever is later, then turn RIGHT direct to TAU. Turn RIGHT to MTR and maintain 5000'.					

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



DIST to THR	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0
ALTITUDE	740'	1060'	1370'	1690'	2010'	2330'	2650'	2970'	3280'	3600'	3920'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	FW on 245 <sup>^</sup>
Glide Path Angle	3.00 <sup>^</sup>	372	478	531	637	743		

.Standard. STRAIGHT-IN LANDING RWY 25C  
RA 98'  
DA(H) 464'(100')

RVR 300m

PANS OPS

# EDDF/FRA

## FRANKFURT/MAIN

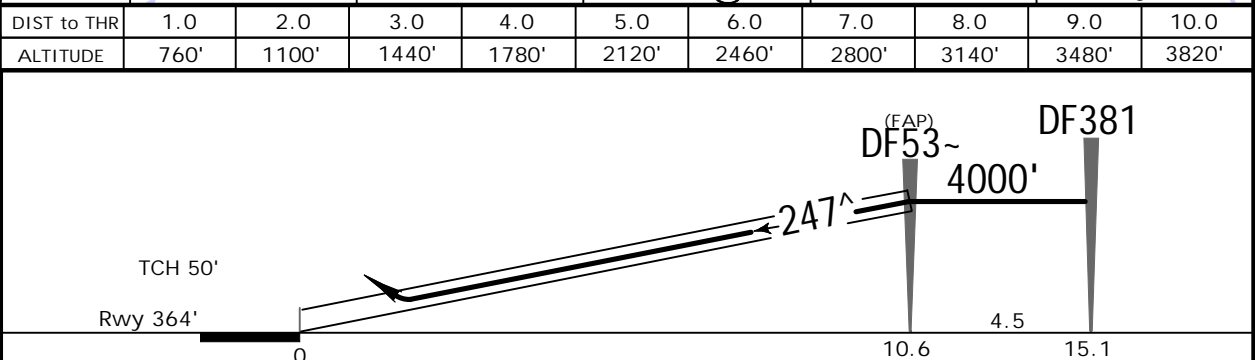
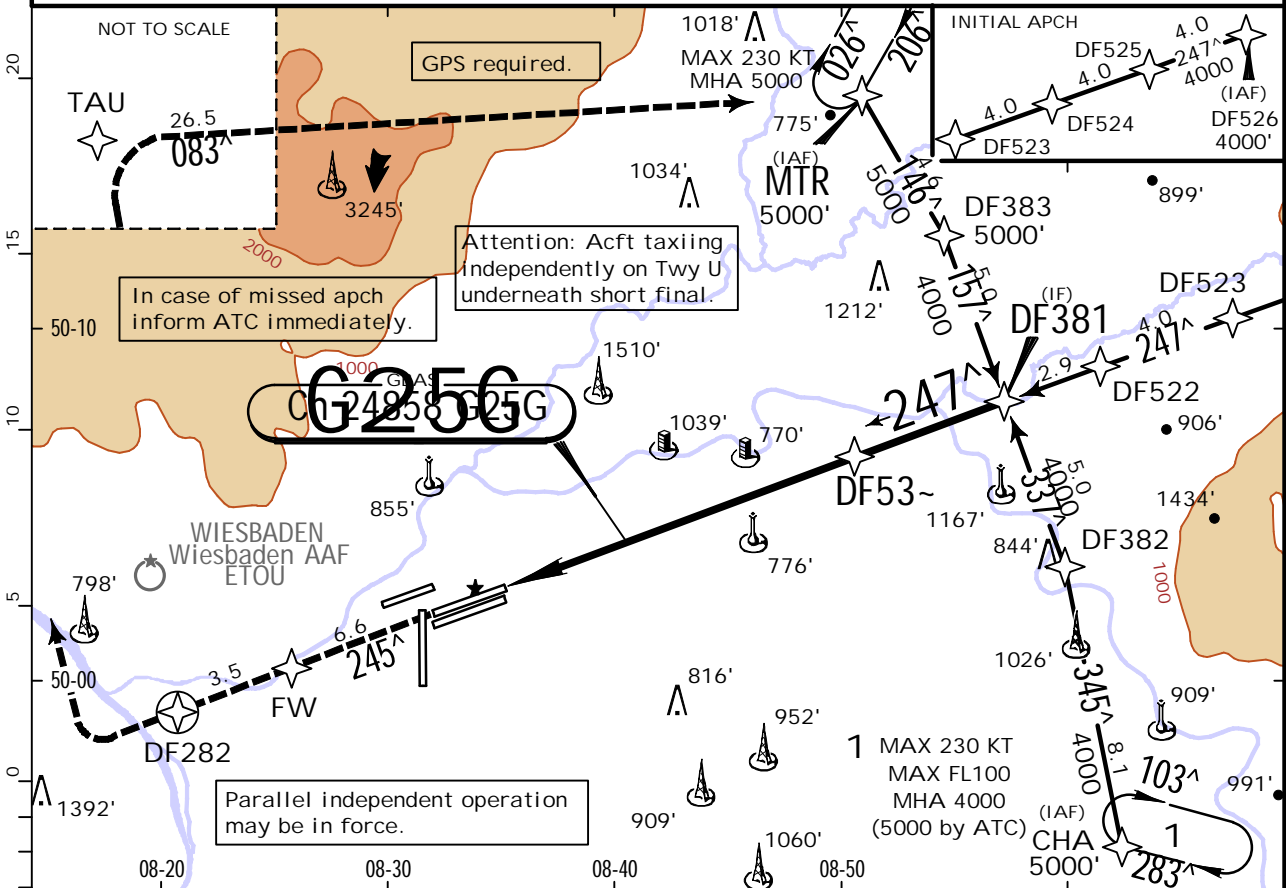
29 JUL 22 (12-49)

# 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 24858 G25G	Final Apch Crs 247 <sup>^</sup>	DF53~ 4000' (3636')	DA(H) 564' (200')	Apt Elev 364' Rwy 364'	4300 MSA ARP
MISSED APCH: Climb on 245 <sup>^</sup> to FW, then to DF282 or 5000', whichever is later, then turn RIGHT direct to TAU. Turn RIGHT to MTR and maintain 5000'.					

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



Gnd speed-Kts	70	90	100	120	140	160	ALSIF-II REIL PAPI	FW ↑ on 245 <sup>^</sup>
Glide Path Angle	3.20 <sup>^</sup>	396	510	566	679	793		

Standard.			STRAIGHT-IN LANDING RWY 25C		
FULL			GLS DA(H) 564' (200')		
IDZ or CL out		ALS out			
A	RVR 550m		RVR 550m 1		RVR 1200m
B					
C					
D					

1 RVR 750m when a Flight Director or Autopilot or HUD to DA is not used.

# EDDF/FRA

## FRANKFURT/MAIN

29 JUL 22

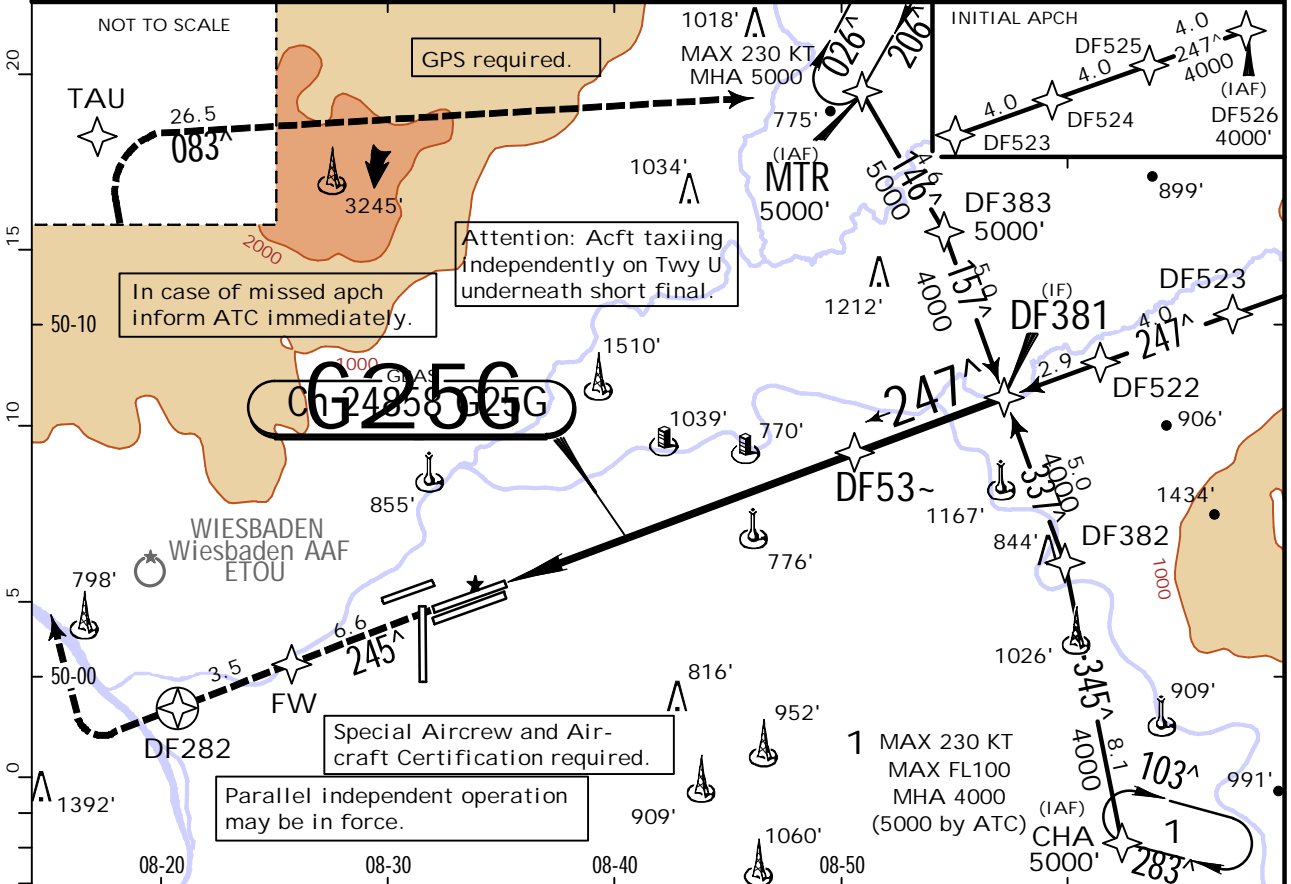
12-49A

# JEPPESSEN FRANKFURT/MAIN, GERMANY

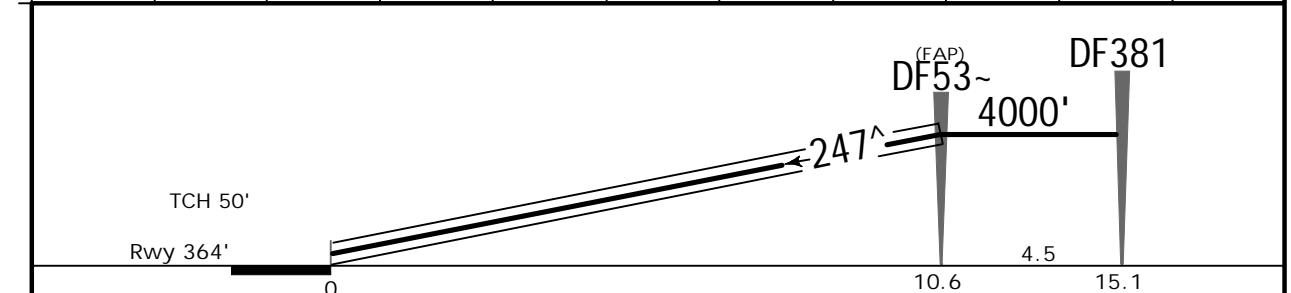
## CAT II GLS Y Rwy 25C

*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 24858 G25G	Final Apch Crs 247 <sup>^</sup>	DF53~ 4000' (3636')	CAT II GLS RA 98' DA(H) 464' (100')	Apt Elev 364' Rwy 364'	4300 MSA ARP
MISSED APCH: Climb on 245 <sup>^</sup> to FW, then to DF282 or 5000', whichever is later, then turn RIGHT direct to TAU. Turn RIGHT to MTR and maintain 5000'.					

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



DIST to THR	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
ALTITUDE	760'	1100'	1440'	1780'	2120'	2460'	2800'	3140'	3480'	3820'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	FW ↑ on 245 <sup>^</sup>
Glide Path Angle	3.20 <sup>^</sup>	396	510	566	679	793		

.Standard.      STRAIGHT-IN LANDING RWY 25C

RA 98'  
DA(H) 464' (100')

RVR 300m

# EDDF/FRA

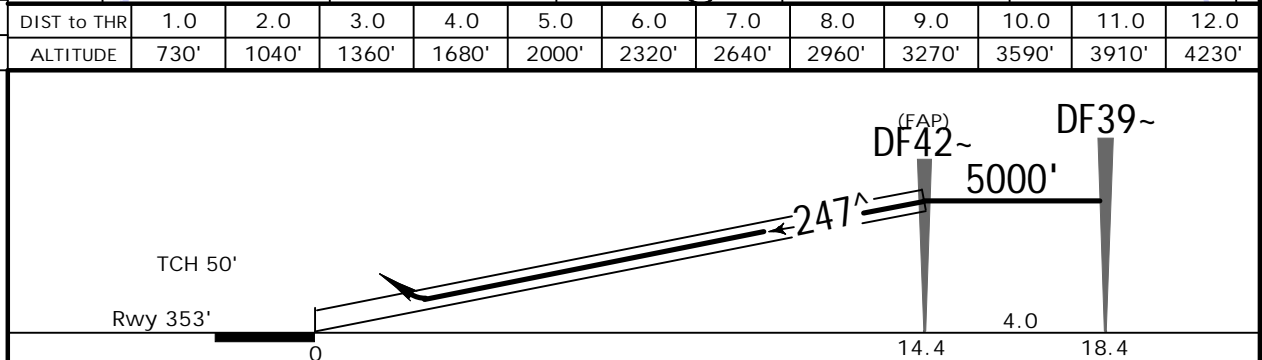
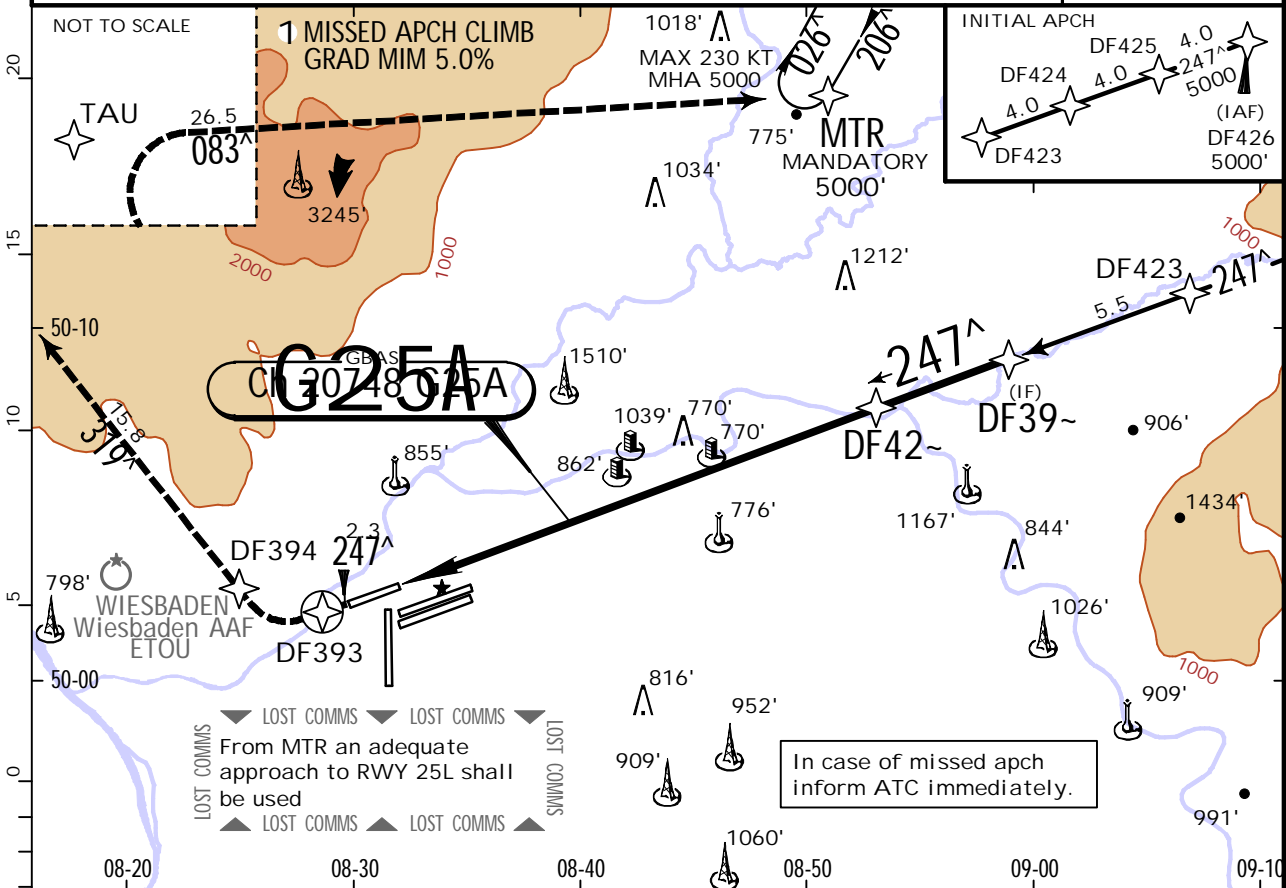
## FRANKFURT/MAIN

29 JUL 22 (12-50)

# JEPPESSEN FRANKFURT/MAIN, GERMANY

## 1 GLS 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
GBAS Ch 20748 G25A	Final Apch Crs 247 <sup>^</sup>	DF42~ 5000' (4647')	DA(H) Refer to Minimums	Apt Elev 364' Rwy 353'		
MISSED APCH: On 247 <sup>^</sup> to DF393 at or above 800'. Turn RIGHT direct to DF394, then to TAU. Turn RIGHT to MTR climbing to 5000'.						
Alt Set: hPa (IN on req) Rwy Elev: 13 hPa Trans level: By ATC Trans alt: 5000'						
1. GPS required. 2. Parallel independent operation may be in force.						MSA ARP



Standard.			STRAIGHT-IN LANDING RWY 25R		
GLS					
Missed apch climb gradient mim 5.0% until passing 2000'					
DA(H) ABC: 553' (200') D: 558' (205')					
FULL		IDZ or CL out		ALS out	
A					
B					
C	RVR 550m	RVR 550m 1		RVR 1200m	
D	1 RVR 750m when a Flight Director or Autopilot or HUD to DA is not used.				

# EDDF/FRA

## FRANKFURT/MAIN

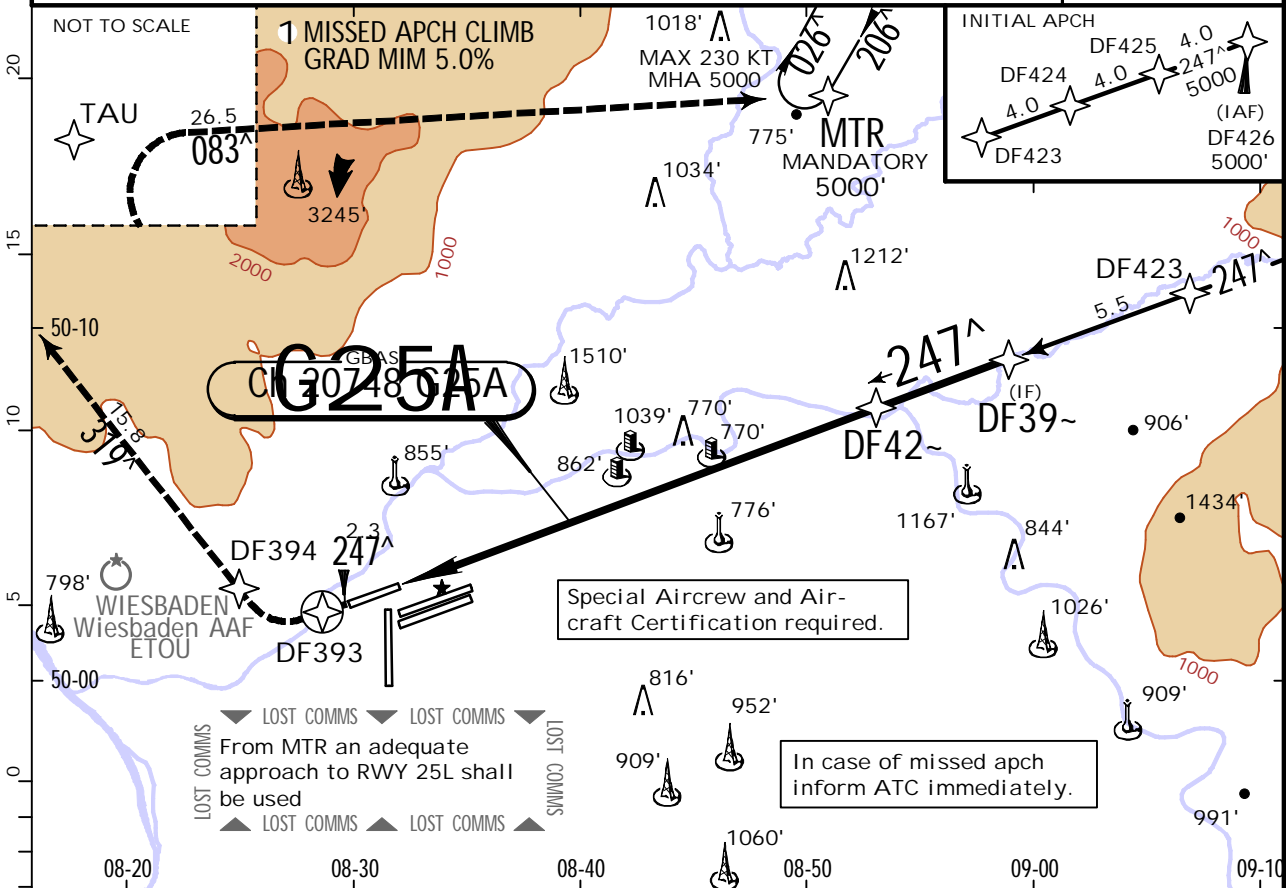
29 JUL 22

(12-50A)

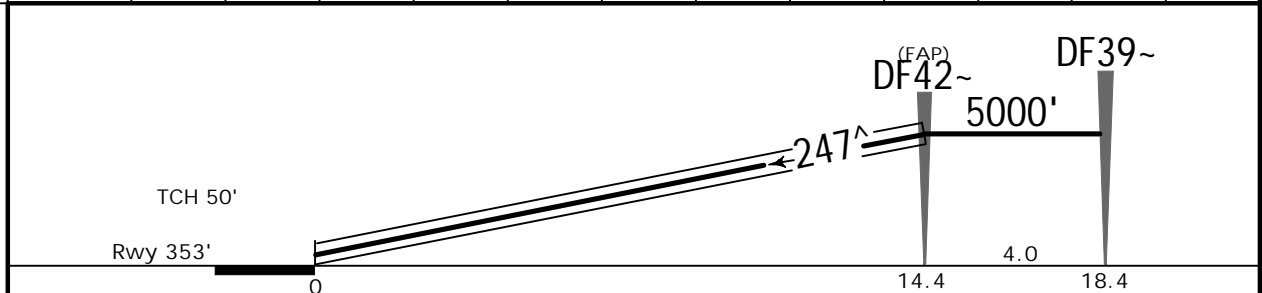
# JEPPESSEN FRANKFURT/MAIN, GERMANY

## 1 CAT II GLS 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	
GBAS Ch 20748 G25A	Final Apch Crs 247 <sup>^</sup>	DF42~ 5000' (4647')		CAT II GLS Refer to Minimums	Apt Elev 364' Rwy 353'	<p>4300</p> <p>MSA ARP</p>		
MISSED APCH: On 247 <sup>^</sup> to DF393 at or above 800'. Turn RIGHT direct to DF394, then to TAU. Turn RIGHT to MTR climbing to 5000'.								
Alt Set: hPa (IN on req)    Rwy Elev: 13 hPa    Trans level: By ATC    Trans alt: 5000'								
1. GPS required. 2. Parallel independent operation may be in force.								



DIST to THR	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0
ALTITUDE	730'	1040'	1360'	1680'	2000'	2320'	2640'	2960'	3270'	3590'	3910'	4230'



Gnd speed-Kts	70	90	100	120	140	160		MIM	800'	at	DF393	on	247 <sup>^</sup>
Glide Path Angle	3.00 <sup>^</sup>	372	478	531	637	743		849					

.Standard. STRAIGHT-IN LANDING RWY 25R  
Missed apch climb gradient mim 5.0% up to 2000'

A: RA 103' DA(H) 453' (100')	D: RA 143' DA(H) 483' (130')
B: RA 107' DA(H) 457' (104')	
C: RA 121' DA(H) 470' (117')	

RVR 300m	RVR 400m
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# EDDF/FRA

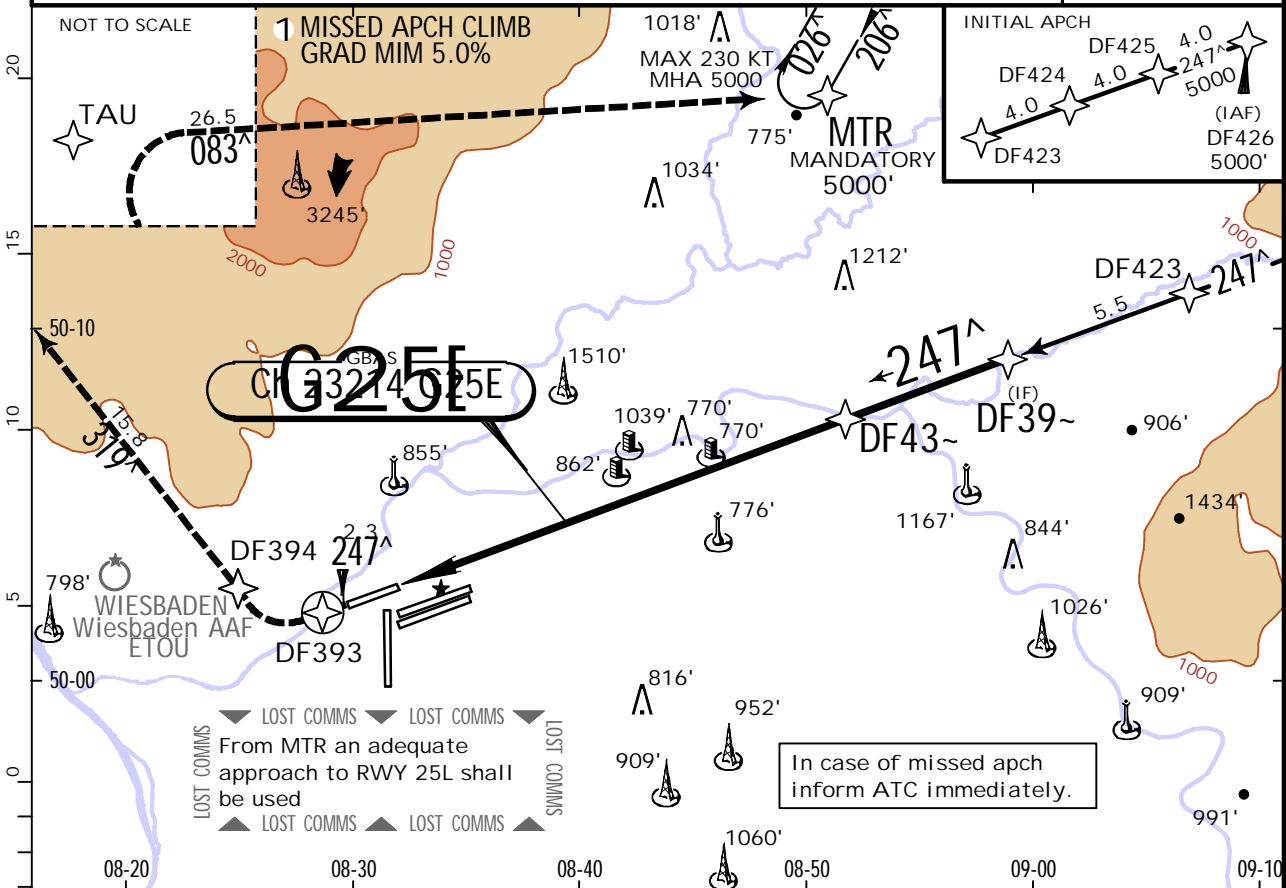
## FRANKFURT/MAIN

29 JUL 22 (12-51)

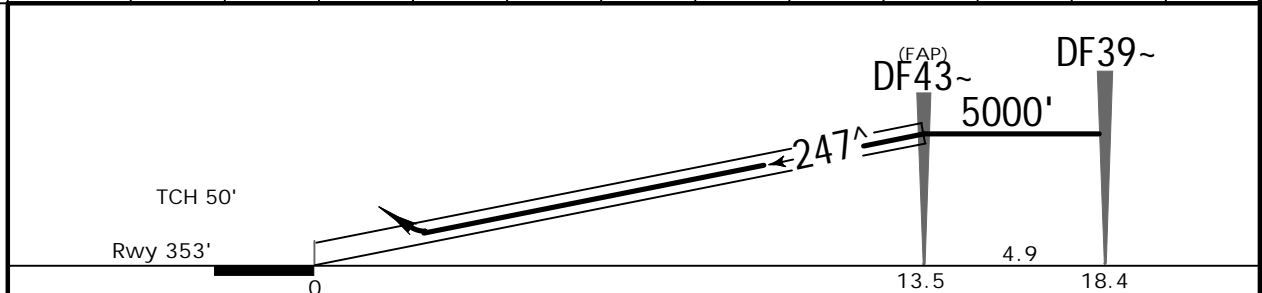
# JEPPESSEN FRANKFURT/MAIN, GERMANY

## 1 GLS Y 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	
GBAS Ch 23214 G25E	Final Apch Crs 247 <sup>^</sup>	DF43~ 5000' (4647')	DA(H) Refer to Minimums	Apt Elev 364' Rwy 353'	<p>4300</p> <p>MSA ARP</p>		
<p>MISSED APCH: On 247<sup>^</sup> to DF393 at or above 800'. Turn RIGHT direct to DF394, then to TAU. Turn RIGHT to MTR climbing to 5000'.</p>							
<p>Alt Set: hPa (IN on req)    Rwy Elev: 13 hPa    Trans level: By ATC    Trans alt: 5000'</p> <p>1. GPS required. 2. Parallel independent operation may be in force.</p>							



DIST to THR	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0
ALTITUDE	750'	1090'	1430'	1770'	2110'	2450'	2790'	3130'	3460'	3800'	4140'	4480'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	MIM 800'	at DF393 on 247 <sup>^</sup>
Glide Path Angle	3.20 <sup>^</sup>	396	510	566	679	793		906	

Standard. STRAIGHT-IN LANDING RWY 25R

GLS Missed apch climb gradient mim 5.0% until passing 2000'

DA(H) ABC: 553' (200') D: 558' (205')

	FULL	IDZ or CL out	ALS out
A			
B	RVR 550m	RVR 550m 1	RVR 1200m
C			
D			

1 RVR 750m when a Flight Director or Autopilot or HUD to DA is not used.



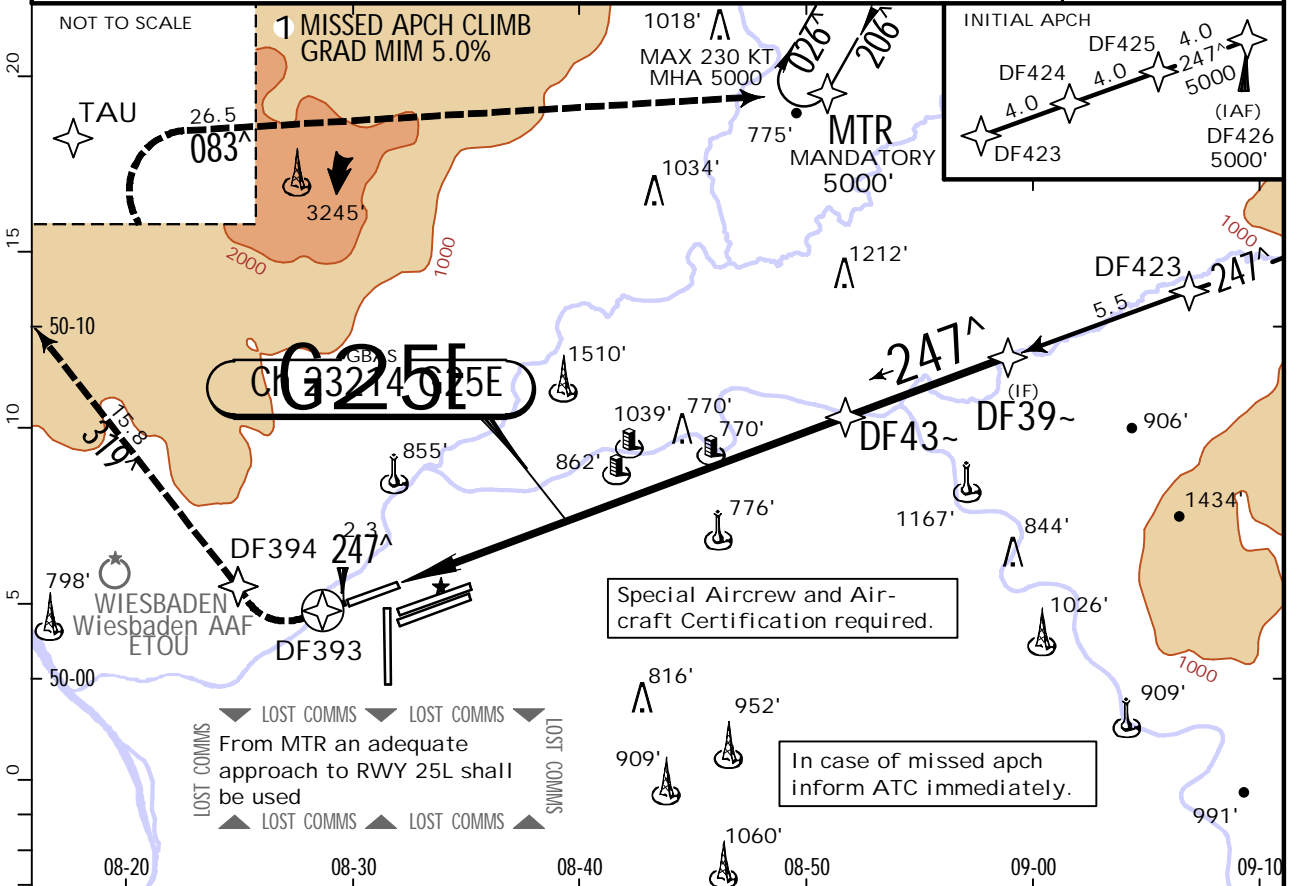
# EDDF/FRA FRANKFURT/MAIN

29 JUL 22

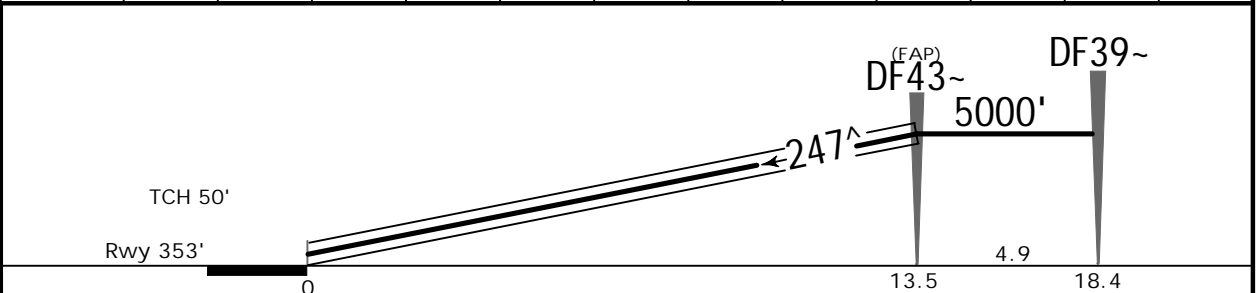
12-51A

# FRANKFURT/MAIN, GERMANY 1 CAT II GLS Y 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	
GBAS Ch 23214 G25E	Final Apch Crs 247 <sup>^</sup>	DF43~ 5000' (4647')	CAT II GLS Refer to Minimums	Apt Elev 364' Rwy 353'	<p>4300 MSA ARP</p>		
<p>MISSED APCH: On 247<sup>^</sup> to DF393 at or above 800'. Turn RIGHT direct to DF394, then to TAU. Turn RIGHT to MTR climbing to 5000'.</p>							
<p>Alt Set: hPa (IN on req) Rwy Elev: 13 hPa Trans level: By ATC Trans alt: 5000'</p> <p>1. GPS required. 2. Parallel independent operation may be in force.</p>							



DIST to THR	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0
ALTITUDE	750'	1090'	1430'	1770'	2110'	2450'	2790'	3130'	3460'	3800'	4140'	4480'



Gnd speed-Kts	70	90	100	120	140	160	ALSF-II REIL PAPI	MIM 800'	at	DF393 on	247 <sup>^</sup>
Glide Path Angle	3.20 <sup>^</sup>	396	510	566	679	793		906			

Standard.  
STRAIGHT-IN LANDING RWY 25R  
Missed apch climb gradient mim 5.0% up to 2000'

A: RA 102' DA(H) 453' (100')	D: RA 134' DA(H) 483' (130')
B: RA 106' DA(H) 457' (104')	
C: RA 121' DA(H) 470' (117')	

RVR 300m	RVR 400m
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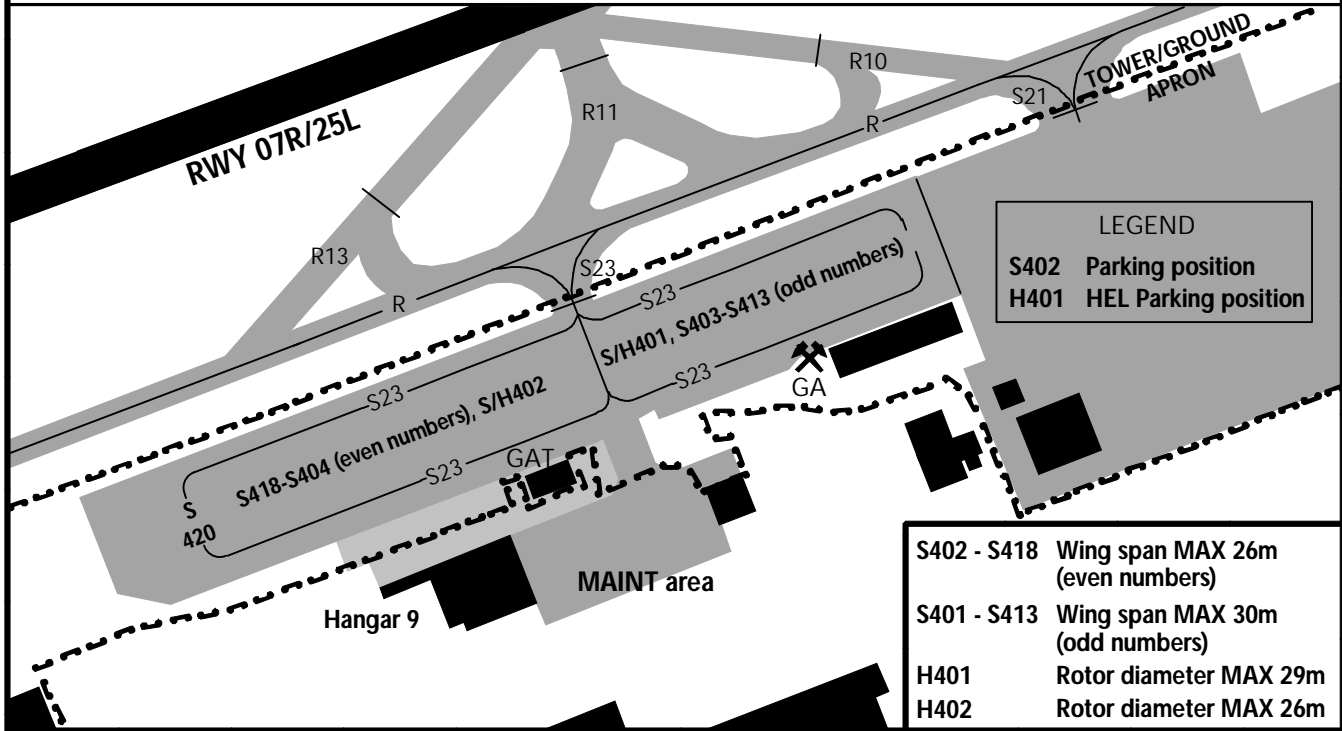






ATIS 118.730 (DEP)  
FRANKFURT DELIVERY 121.905 (Initial call & start-up)  
APRON 121.655 121.855

General Aviation Apron



**LEGEND**  
 S402 Parking position  
 H401 HEL Parking position

S402 - S418 Wing span MAX 26m (even numbers)  
 S401 - S413 Wing span MAX 30m (odd numbers)  
 H401 Rotor diameter MAX 29m  
 H402 Rotor diameter MAX 26m

For text please refer to 19-3.

**EDDF**  
**FRANKFURT MAIN**

04 FEB 22

**19-3**
**FRANKFURT MAIN**  
**GERMANY**

## Intersection TKOF

RWY	TWY	TORA (m)
07C	L20	3940
	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

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 TOWER to contact APRON.

## Departure

Pilots of departing ACFT shall first contact DELIVERY, report "ready for taxiing" and will then be instructed to contact APRON.

AD control may give permission for ACFT up to 2.5t MPW to use TWY M between TWYs L1/M6 and L14/M24 for take-offs and landings.

## 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 9 - only towing permitted.

## HEL

All helicopters parking at the GA Terminal have to expect LDG and TKOF on RWY 07R/25L.

## 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

Radio contact shall be established with FRANKFURT TOWER at least 5 MIN prior to the first reporting point.

Approaches via LIMA will cross ATZ / RMZ / TMZ Egelsbach and will be coordinated by LANGEN INFORMATION in advance. Initial contact with EGELSBACH INFO.

Departures RWY 25 via NOVEMBER, all inbounds via NOVEMBER and crossing traffic north to south and vice versa in exceptional cases only.

Pilots intending to use AD shall ensure that the Mode S transponders can be operated when the ACFT is on the ground. Pilots shall select the AUTO mode and the assigned Mode A code.

CAUTION: IFR Traffic.

Avoid departure sector RWY 18!

**WARNING:** In cases of strong winds, wind shears and increased turbulences can be expected on TKOF RWY 18.

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

## General Information

Location: INNSBRUCK AUT  
ICAO/IATA: LOWI / INN  
Lat/Long: N47° 15.6', E011° 20.6'  
Elevation: 1907 ft

Airport Use: Public  
Daylight Savings: Observed  
UTC Conversion: -1:00 = UTC  
Magnetic Variation: 4.0° E

Fuel Types: 100 Octane (LL), Jet A-1  
Repair Types: Minor Airframe, Minor Engine  
Customs: Yes  
Airport Type: IFR  
Landing Fee: Yes  
Control Tower: Yes  
Jet Start Unit: No  
LLWS Alert: No  
Beacon: No

Sunrise: 0605 Z  
Sunset: 1651 Z

## Runway Information

Runway: 08  
Length x Width: 6562 ft x 148 ft  
Surface Type: asphalt  
TDZ-Elev: 1907 ft  
Lighting: Edge, Centerline  
Displaced Threshold: 197 ft

Runway: 26  
Length x Width: 6562 ft x 148 ft  
Surface Type: asphalt  
TDZ-Elev: 1894 ft  
Lighting: Edge, ALS, Centerline, REIL

## Communication Information

ATIS: 126.030  
Innsbruck Tower: 120.100  
Innsbruck Radar: 128.975



LOWI/INN  
INNSBRUCK

+ JEPPESEN

31 JAN 20

10-1P

INNSBRUCK, AUSTRIA  
.AIRPORT.BRIEFING.

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## 1. GENERAL

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### 1.1. ATIS

D-ATIS 126.030

### 1.2. NOISE ABATEMENT PROCEDURES

According to the Austrian ordinance 'Zivilluftfahrzeug-Laermzulaessigkeitsverordnung ZLV-2005' the following is applicable:

Approaches and departures to/from Austrian civil aerodromes are only permitted to be performed by subsonic jet ACFT if the produced noise does not exceed the noise limits specified in Chapter 3 of ICAO Annex 16, Vol I.

Daily operational hours from 0630-2000LT.

For commercial flights, executed by air carriers according to paragraph 101 "Luftfahrtgesetz" (air navigation law) with prop and turbo-prop ACFT, which do not exceed the maximum noise level of Dash 8, operational hours are valid from 0600-2300LT, but between 2200-2300LT only arrivals are granted.

For commercial flights, executed by air carriers according to paragraph 101 "Luftfahrtgesetz" (air navigation law) with jet-propelled ACFT, that maximum noise level is less than the maximum noise level of Dash 8, arrivals are granted between 2000-2300LT.

For rescue-, ambulance- and catastrophe operations with noise reduced ACFT according to ICAO Annex 16, Chapter III and IV, and with helicopters operational hours are valid analogues to item 2.

### 1.3. LOW VISIBILITY PROCEDURES (LVP)

Low visibility take-off becomes effective when RVR for TDZ is 400m or less and will be activated with the phrase "LVP IN OPERATION" via RTF or ATIS.

### 1.4. RWY OPERATIONS

#### 1.4.1. REDUCED RWY SEPARATION

##### 1.4.1.1. GENERAL

Reduced RWY separation will be applied for RWYs 08 and 26 with 600m or 1500m separation.

ACFT will be classified as follows:

- **CAT 1 ACFT:**  
Single engine propeller ACFT with MTOM of 2000kg or less.
- **CAT 2 ACFT:**  
Single engine propeller ACFT with MTOM of more than 2000kg but less than 7000kg or twin engine propeller ACFT with MTOM of less than 7000kg.
- **CAT 3 ACFT:**  
All other ACFT.

##### 1.4.1.2. LANDING ACFT

Separation shall in no case be less than following minimums:

A succeeding landing CAT 1 ACFT may cross THR when preceding ACFT is a CAT 1 or 2 ACFT which either:

- has landed and passed a point at least 600m from THR, is in motion and will vacate RWY without backtracking; or
- is airborne and has passed a point at least 600m from THR.

A succeeding landing CAT 2 ACFT may cross THR when preceding ACFT is a CAT 1 or 2 ACFT which either:

- has landed and passed a point at least 1500m from THR, is in motion and will vacate RWY without backtracking; or
- is airborne and has passed a point at least 1500m from THR.

---

## 1. GENERAL

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A succeeding landing ACFT may cross THR when preceding CAT 3 ACFT:

- has landed and passed a point at least 2400m from THR, is in motion and will vacate RWY without backtracking, or
- is airborne and has passed a point at least 2400m from THR.

### 1.4.1.3. DEPARTING ACFT

A CAT 1 ACFT may be cleared for take-off when preceding departing ACFT is a CAT 1 or 2 ACFT which is airborne and has passed a point at least 600m from position of succeeding ACFT.

A CAT 2 ACFT may be cleared for take-off when preceding departing ACFT is a CAT 1 or 2 ACFT which is airborne and has passed a point at least 1500m from position of succeeding ACFT.

An ACFT may be cleared for take-off when a preceding departing CAT 3 ACFT is airborne and has passed a point at least 2400m from position of succeeding ACFT.

### 1.4.1.4. WAKE TURBULENCE

The prescribed wake turbulence separation minimums have to be applied except:

- pilot of approaching ACFT announces that he is able to attend an appropriate distance himself; or
- pilot of departing ACFT reports after being questioned by Tower that he can avoid wake turbulence of preceding departed ACFT ("able to avoid..."), e.g. possibility of a visual turn.

## 1.5. OTHER INFORMATION

### 1.5.1. GENERAL

Extensive glider activity.

### 1.5.2. SPECIAL NOTES

Due to mountainous terrain in the vicinity of APT and the requirement for visual maneuvering, it is considered essential that pilots are well familiar with descent, approach and missed approach procedures, balked landing procedures as well as the circling manoeuvres, and the departure procedures.

Familiarization with the procedures intended for use with adequate briefing material is mandatory. The responsibility for the preparation of such information rests with the operator for commercial flights, respectively pilot-in-command (for non-commercial flights). A sample briefing may be obtained from the APT administration but needs to be updated for the needs of the intended operation.

Operation in VMC on site or in a flight simulation training device FSTD (full flight simulator-FFS; Flight and navigation procedures trainer II-FNPT II) is required before first use of the approach procedures in weather conditions of less than 3000' (AAL) ceiling and 5km visibility and for the approval of any special approach and/or departure procedure.

**Note:** Operation in an FSTD shall include the program in VMC as well as in IMC unless a collision detection system is used.

The operation in VMC on site (or in the FSTD) shall include at least:

- one LOC/DME EAST followed by missed approach;
- one LOC/DME EAST approach followed by balked landing RWY 26 (may be replaced by one departure from RWY 26 utilizing the same track as for the intended balked landing);
- one LOC/DME EAST followed by a circling RWY 08;
- one departure RWY 26 (may be replaced by one balked landing RWY 26 utilizing the same track).

Details of the required information and training for the approval of special procedures will be specified.

However, training for the use of any one of the special procedures need to be performed in a FFS or FNPT II (exemptions for on site training may be granted if the situation requires such a decision).

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## 1. GENERAL

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The design of any departure contingency procedure and balked landing procedure is the responsibility of the operator/pilot-in-command. When designing the balked landing, the initial part of the departure procedure and the contingency procedure for RWY 26 the following guiding principles should be considered:

### Balked Landing and Departure Contingency:

The operator/pilots-in-command should define the use of a turn procedure not later than D3.3 West OEV DME, or the use of an alternative contingency procedure along the Inn valley (this needs more detailed preparation and knowledge of the procedures and area).

### Proposed Early Turn Procedure:

Climb visually with maximum gradient on RWY track. At D1.2 West OEV turn RIGHT and climb on 272° along the Northern side of the valley. Not later than at D3.3 West OEV turn LEFT and join LOC OEJ and continue climb along LOC OEJ to RTT NDB.

Unless a detailed obstacle survey allows/requires another turning altitude, the required climb gradient is 6.1% to achieve an altitude of 3200' at D3.3 West of OEV, which may be considered as sufficient altitude for a safe LEFT turn with a maximum radius of 1800m. Due to ACFT mass and associated climb performance of less than 6.1% one engine inoperative climb it may be required to design an alternative contingency procedure along the Western part of the Inn valley.

### AOC type "B" and any adequate extension is recommended for preparation!

During FOEHN conditions (surface wind 100°-180°, average windspeed 15-25 KT, gusts 30-50 KT) with horizontal/vertical windshear and associated with possible moderate to severe turbulence and following partly severe downdraughts at various altitudes have to be expected especially over the city below 5000'.

To minimize operation in turbulence, pilots may during an approach procedure request a visual approach to RWY 08 from a position West of APT or stop descent at 7000' and proceed visually to a position over or South of APT but not below 5000'.

Thereafter continue descent and join RIGHT hand baseleg for RWY 08. A downdraught over the river INN on final approach to RWY 08 is most likely, too.

Caution is advised when actual outside air temperature differs from ISA by more than MINUS 10°C, due to substantial difference between true altitude and indicated altitude. Pilots will normally be informed by ATC.

Cloud base reports are available for two positions on final approach to RWY 26 at D1.8 OEV and at D0.5 OEV (indicating low clouds close to MAPs) and one position 2NM West of the APT.

In the area around INNSBRUCK it may happen that different values of visibility exist in various directions mainly caused by haze or mist layers over the city. If such situations are observed and the ground visibility is 8km or less, an additional reference in plain language to the INNSBRUCK MET REPORT is made, or ATC will refer to.

This plain language appendix refers especially to existing haze layers and as far as possible to the estimated visibility above these haze layers.

### 1.5.3. ADDITIONAL SERVICE

Surveillance based on multilateration is used by INNSBRUCK Tower/APP in order to provide additional service for the provision of air traffic services in the INN Valley.

This non-standard ICAO system is using on board transponder mode A/C/S replies by calculating time/distance of signals in order to locate position and altitude of ACFT.

All standard ICAO radar procedures, phraseology and services apply.

Radar service will be initiated by identification procedure for ACFT equipped with serviceable transponder mode A/C/S: Departures when entering RWY.

**LOWI/INN**  
INNSBRUCK

+ JEPPESEN

22 APR 22

10-1P3

**INNSBRUCK, AUSTRIA**  
**.AIRPORT.BRIEFING.**

## 2. ARRIVAL

### 2.1. OTHER INFORMATION

#### 2.1.1. ATC PROCEDURES

No approach clearance will be issued by ATC below CEIL 1300' AAL and 1500m ground visibility.

In case of fog, haze, cloud and/or mist layers or blowing snow in vicinity of the APT a clearance for approach will be granted on pilot's request provided:

- the RVR is at least 1000m and
- the visibility above these layers is at least 5.0km and there are no further clouds below 3100' AAL.

#### 2.1.2. GUIDELINES FOR RNP Z RWY 08 (AR) AND RNP Z RWY 26 (AR)

##### 2.1.2.1. EQUIPMENT REQUIREMENTS

Approved Dual FMS installation according AC20-138() including RNP capability of 0.3NM or better (equal or smaller than 0.3NM).

Dual GNSS and at least one Inertial Reference Unit or equivalent (DME/DME, VOR/DME or LOC update not authorized).

FMS must be capable to perform ARINC 424 "RF" Path Terminator.

Required RNP AR approach functions/airworthiness according EASA CS-ACNS Issue 3.

To assure availability of GNSS signal, operators/pilots shall perform a RAIM check.

A tool (AUGUR by EUROCONTROL) is available on:

<https://augur.eurocontrol.int>.

##### 2.1.2.2. APPLICATION

This procedure requires special authorization by Austro Control. This authorization does not relieve the operator/pilot to obtain an approval/acceptance from the competent National Aviation Authority of the State of the operator/pilot.

Only operators/pilots of multi-engine ACFT shall apply for such permission.

The application shall contain:

- ACFT type;
- FMS type and certification;
- Instrument approach and landing chart;
- Flight crew training documentation for normal and non-normal operation including documentation changes (FCOM, AFM, etc.);
- Data file with ARINC 424 coding of the procedure;
- Safety analysis in regard to accuracy, integrity, continuity and availability for normal and non-normal operations;
- A copy of the letter of approval to conduct RNP AR operations granted by their National Aviation Authority.

#### 2.1.3. SPECIAL LOC ROMEO RWY 26 GUIDELINES

##### 2.1.3.1. GENERAL

To assure availability of GNSS signal operators/pilots shall perform a RAIM check.

A tool (AUGUR by EUROCONTROL) is available on:

<https://augur.eurocontrol.int>.

If no effective external visual reference at the MAPt or when discontinuing an approach between D-19 OEV and the MAP, climb with MAX gradient on MT 254<sup>^</sup> to WI700 (LOC course OEV 254<sup>^</sup> provides guidance until short before WI700), thereafter the missed approach is based on RNP 0.3 and therefore LNAV shall be engaged accordingly.

LOWI/INN  
INNSBRUCK

+ JEPPESEN

22 APR 22

10-1P4

INNSBRUCK, AUSTRIA  
.AIRPORT.BRIEFING.

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## 2. ARRIVAL

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### 2.1.3.2. EQUIPMENT REQUIREMENTS

Approved Dual FMS installation according AC20-138() including RNP capability of 0.3NM or better (equal or smaller than 0.3NM).

Dual GNSS and at least one Inertial Reference Unit or equivalent (DME/DME or VOR/DME update not authorized during missed approach).

FMS must be capable to perform ARINC 424 "RF" Path Terminator.

Required RNP AR approach functions/airworthiness according EASA CS-ACNS Issue 3.

### 2.1.3.3. APPLICATION

This procedure requires special authorization by Austro Control. This authorization does not relieve the operator/pilot to obtain an approval/acceptance from the competent National Aviation Authority of the State of the operator/pilot.

Only operators/pilots of multi-engine ACFT shall apply for such permission.

The application shall contain:

- ACFT type;
- Relevant details of the AFM showing compliance with the requirements;
- Standard Operating Procedures and flight crew training documentation for normal and non-normal operation including documentation changes (FCOM, AFM, etc.);
- Safety analysis in regard to accuracy, integrity, continuity and availability for normal and non-normal operations;
- A copy of the letter of approval to conduct RNP AR operations granted by their National Aviation Authority;
- A shortened approval process will be applied for operators holding an approval for RNP Z RWY 26 (AR).

### 2.1.4. APPLICATION GENERAL

The relevant data shall be submitted in a listed form together with copies of the relevant pages of the Aeroplane Flight Manual and - if relevant other certified data.

Applications shall be conveyed at least six weeks prior to the intended operations.

**Note:** Details for approval shall be obtained by [special.procedures@austrocontrol.at](mailto:special.procedures@austrocontrol.at)

Operators shall address their application to:

Austro Control GmbH  
Flugsicherungsstelle Innsbruck  
ATM/TERM Innsbruck  
Postfach 1  
6026 Innsbruck  
AUSTRIA  
FAX: +43 5 1703 6656  
+43 5 1703 6666  
E-mail: [special.procedures@austrocontrol.at](mailto:special.procedures@austrocontrol.at)

LOWI/INN  
INNSBRUCK

+ JEPPESEN

22 APR 22

10-1P5

INNSBRUCK, AUSTRIA  
.AIRPORT.BRIEFING.

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## 3. DEPARTURE

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### 3.1. SPECIAL PERFORMANCE DEPARTURES

Only operators/pilots of multi-engine ACFT shall apply for such permission.

The application shall contain:

- ACFT type;
- Relevant details of the AFM showing compliance with the requirements;
- Standard Operating Procedures and flight crew training documentation for normal and non-normal operation including documentation changes (FCOM, AFM, etc.);
- Safety Analysis in regard to accuracy, integrity, continuity and availability for normal and non-normal operations;
- A copy of the letter of approval to conduct RNP AR operations granted by their National Aviation Authority.

The relevant data shall be submitted in a listed form together with copies of the relevant pages of the Aeroplane Flight Manual and - if relevant - other certified data.

Application shall be conveyed at least six weeks prior to the intended operations. Operators shall address their application to:

Austro Control GmbH  
Flugsicherungsstelle Innsbruck  
ATM/TERM Innsbruck  
Postfach 1  
6026 Innsbruck  
AUSTRIA  
FAX: +43 5 1703 6656  
+43 5 1703 6666  
E-mail: [special.procedures@austrocontrol.at](mailto:special.procedures@austrocontrol.at)

### 3.2. OTHER INFORMATION

#### 3.2.1. ATC PROCEDURES

Except for special performance departure no clearance will be issued by ATC below CEIL 1300' AAL and/or 1500m ground visibility.

In case of low layers of (low stratus) fog, haze, mist or blowing snow a clearance for departure on RWY 08 will be granted to pilots for multi-engine ACFT only provided:

- the RVR is at least 600m and
- the visibility above these layers is at least 5.0km and
- there are no further clouds below 3100' AAL and
- one engine-out climb gradient MIM 4.8%.



LOWI/INN  
INNSBRUCK



1 OCT 21

(10-1R) .Eff.7.Oct.

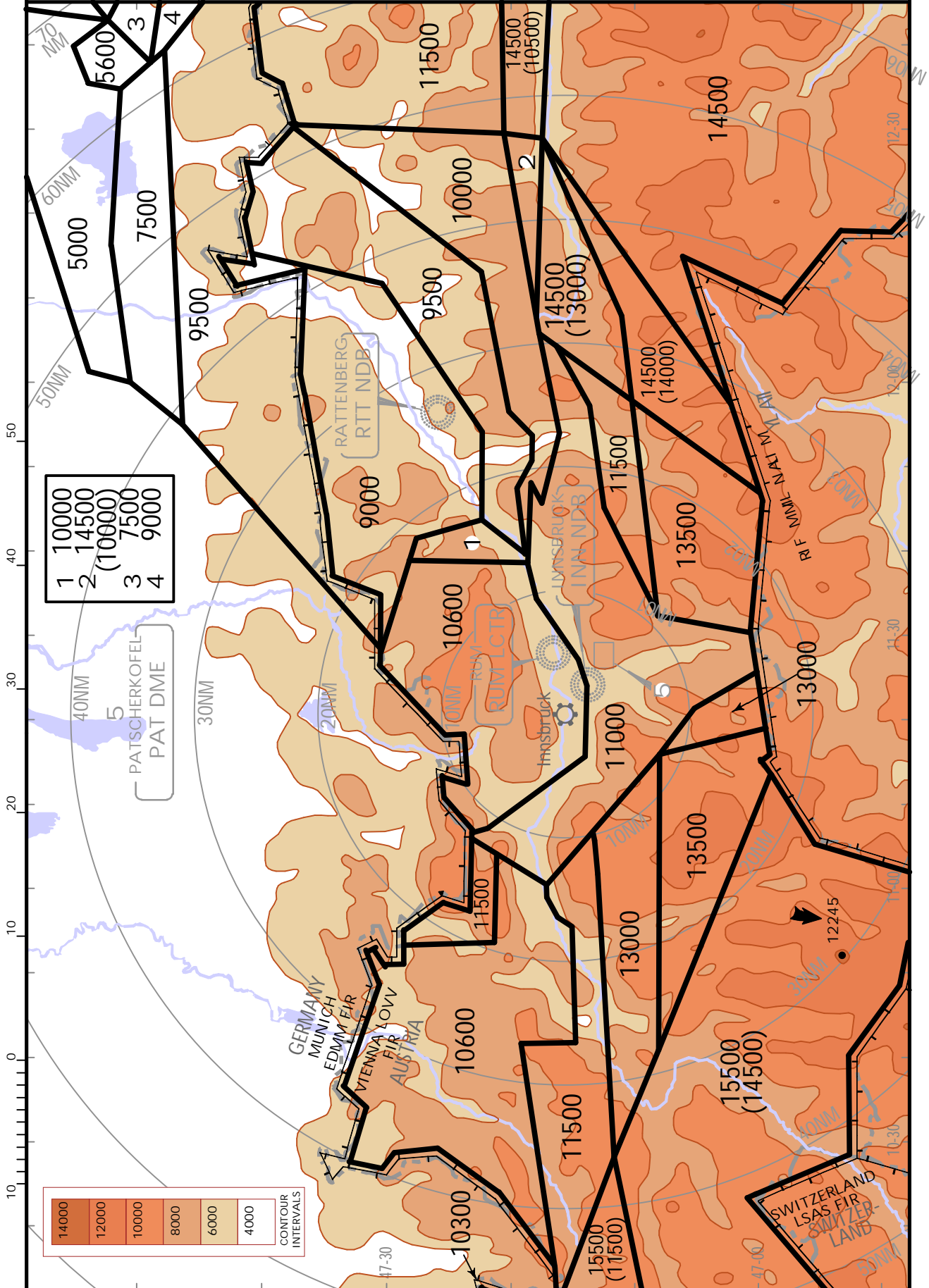
INNSBRUCK, AUSTRIA  
.RADAR.MINIMUM.ALTITUDES.

\*INNSBRUCK  
Radar (APP)  
128.975

Apt Elev  
1907

Alt Set: hPa Trans level: By ATC Trans alt: 10000

1. Minimum altitudes applicable for RADAR controlled aircraft within controlled airspace. Values in brackets refer to minimum altitudes in uncontrolled airspace providing adequate obstacle clearance.
2. This chart may only be used for cross-checking of assigned altitudes while under RADAR control.
3. Cold temperature altitude correction to the minimum altitude will be applied by ATC.



**LOWI/INN**  
INNSBRUCK

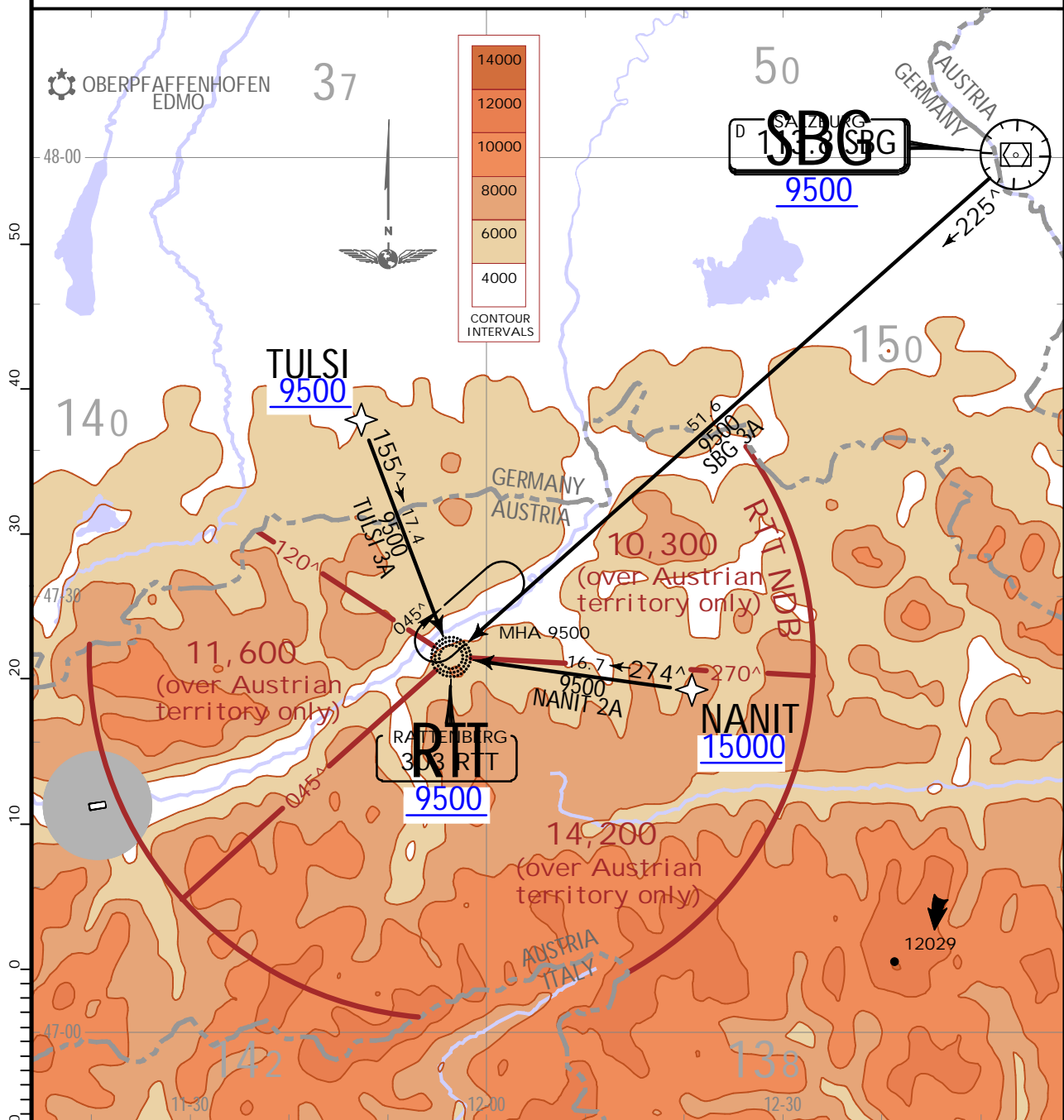
**JEPPESEN**  
6 AUG 21 (10-2) .Eff.12.Aug.

**INNSBRUCK, AUSTRIA**  
.RNAV.STAR.

D-ATIS 126.030	Apt Elev 1907	Alt Set: hPa Trans level: By ATC 1. RNAV 5 approval required. 2. GNSS required. 3. Non-RNAV aircraft: EXPECT RADAR vectors to final approach.
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**NANIT 2A [NANI2A]  
SALZBURG 3A (SBG 3A) [SBG3A]  
TULSI 3A [TULS3A]  
RNAV ARRIVALS  
(ALL RWYS)**

STARs crossing through  
airspace class E  
up to FL125



STAR	ROUTING
NANIT 2A	NANIT - RTT.
SBG 3A	SBG - RTT.
TULSI 3A	TULSI - RTT.







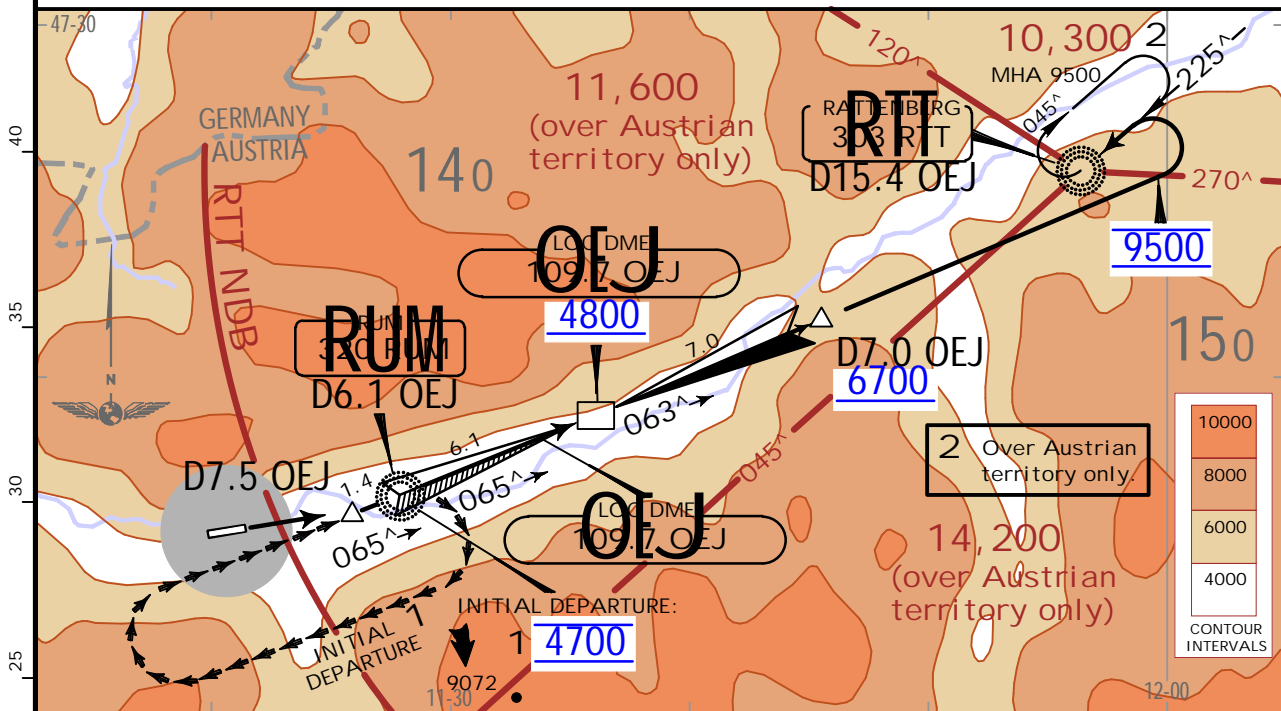
**LOWI/INN**  
INNSBRUCK

**JEPPESEN**  
1 OCT 21 (10-3) .Eff.7.Oct.

**INNSBRUCK, AUSTRIA**  
.SID.

*INNSBRUCK Radar (APP) 128.975	Apt Elev 1907	Trans alt: 10000 1. Contact INNSBRUCK Radar when advised by Tower. 2. High mountains surrounding the aerodrome.
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**RWY 08 INITIAL DEPARTURE**  
FOLLOWED BY SIDS SHOWN ON CHARTS 10-3B & 10-3C



SIDs crossing through airspace class E up to FL125

Due to high terrain in the vicinity of airport as well as along the departure flight path it is absolutely necessary to observe the required minimum climb gradient of 290 per NM (4.8%) until passing 6700.

Gnd speed-KT	75	100	150	200	250	300
290 per NM	363	483	725	967	1208	1450

Meteorological minimums:  
Ceiling: 1300 Ground visibility: 1500m  
Flight visibility during visual operations:  
For aircraft CAT A & B 3km, for aircraft CAT C & D 5km.

1 If unable to cross OEJ at 4800 and D7.0 OEJ EAST of OEJ at 6700, a higher ceiling and visibility is necessary. In this case climb visually via RUM at 4700  
205 per NM (3.3%).

**SPECIAL PERFORMANCE DEPARTURE**

Gnd speed-KT	75	100	150	200	250	300
205 per NM	256	342	513	683	854	1025

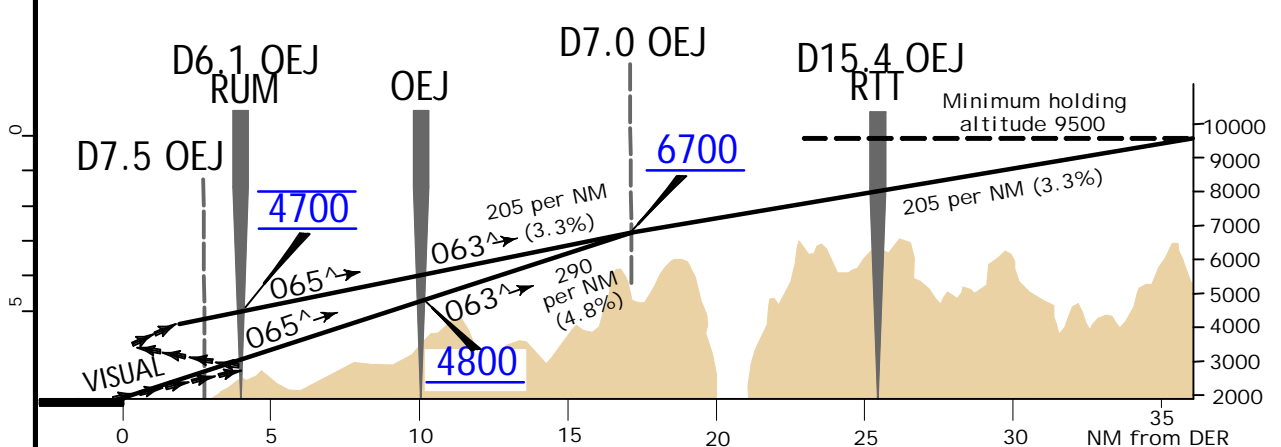
RVR: 150m  
Take-off alternate required.

**Initial climb clearance By ATC**

**INITIAL CLIMB**

Climb on runway track with maximum rate of climb until intercepting OEJ course (D7.5 OEJ) inbound to RUM, continue on 065^ OEJ course. At OEJ change to 063^ and continue to 9500 using OEJ back course, then turn LEFT to RTT. After RTT join SID or cleared ATS route.  
Due to erroneous LOC indications when off centerline from 2.0 DME before until 2.0 DME after LOC-DME station, use RUM as additional guidance.

**REQUIRED MINIMUM CLIMB PROFILE**



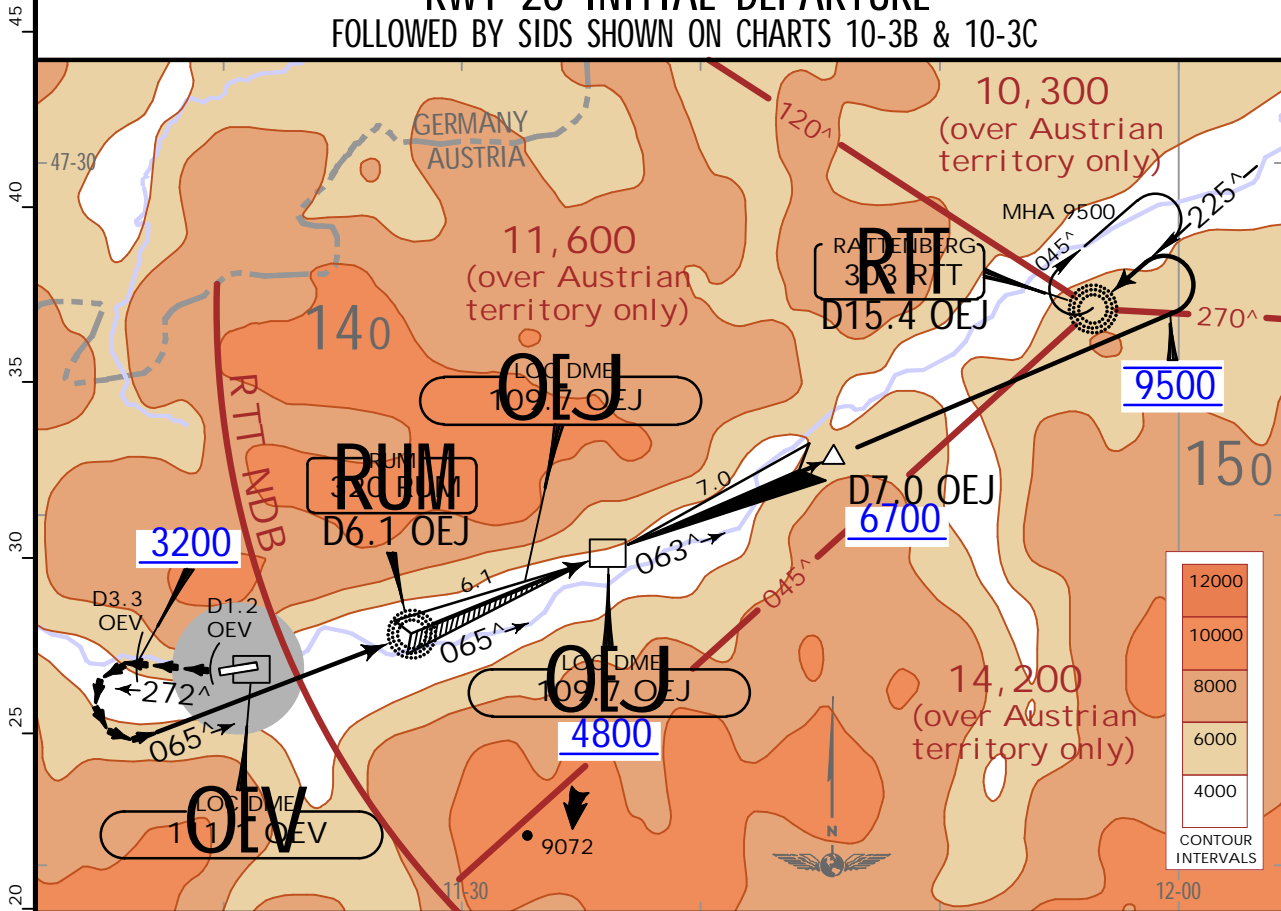
**LOWI/INN**  
INNSBRUCK

**JEPPESEN**  
1 OCT 21 (10-3A) .Eff.7.Oct.

**INNSBRUCK, AUSTRIA**  
.SID.

*INNSBRUCK Radar (APP) 128.975	Apt Elev 1907	Trans alt: 10000 1. Contact INNSBRUCK Radar when advised by Tower. 2. High mountains surrounding the aerodrome.
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**RWY 26 INITIAL DEPARTURE**  
FOLLOWED BY SIDS SHOWN ON CHARTS 10-3B & 10-3C



SIDs crossing through  
airspace class E  
up to FL125

Due to high terrain in the vicinity of airport as well as along the departure flight path it is absolutely necessary to observe the required minimum climb gradient of 205 per NM (3.3%).

Meteorological minimums:  
Ceiling: 1300 Ground visibility: 1500m  
Flight visibility during visual operations:  
For aircraft CAT A & B 3km, for aircraft CAT C & D 5km.

Gnd speed-KT	75	100	150	200	250	300
205 per NM	256	342	513	683	854	1025

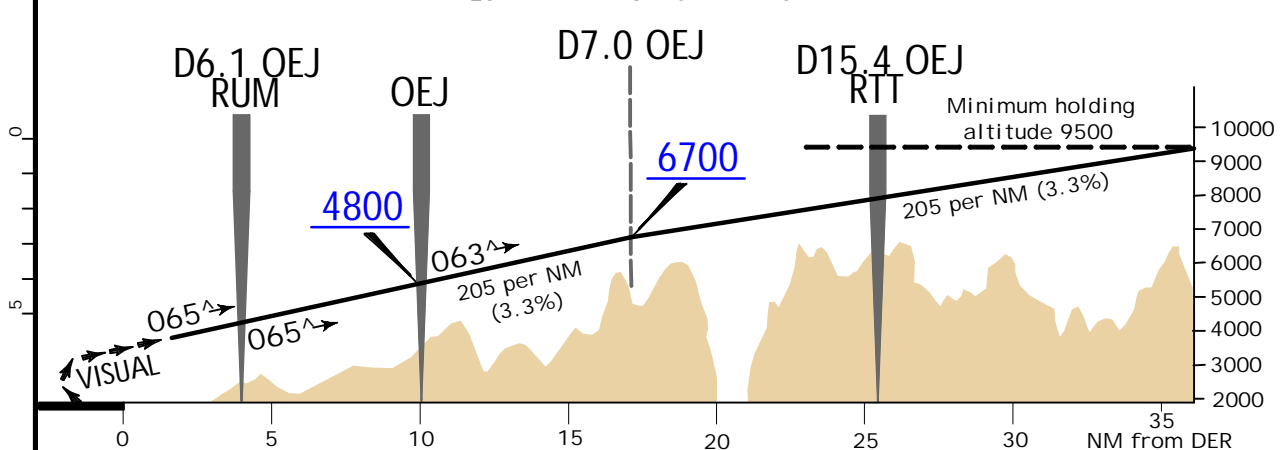
Therefore the procedure requires sufficient ceiling and flight visibility until aircraft is established on OEJ.

**Initial climb clearance By ATC**

**INITIAL CLIMB**

Climb visually on RWY track to D1.2 OEJ, turn RIGHT, 272° track to D3.3 OEJ, turn visually LEFT (e. g. 160 KT/25° bank), join OEJ on course 065° via RUM. At OEJ change to 063° and continue to 9500 using OEJ back course, then turn LEFT to RTT. After RTT join SID or cleared ATS route.  
Due to erroneous LOC indications when off centerline from 2.0 DME before until 2.0 DME after LOC-DME station, use RUM as additional guidance.

**REQUIRED MINIMUM CLIMB PROFILE**





LOWI/INN  
INNSBRUCK

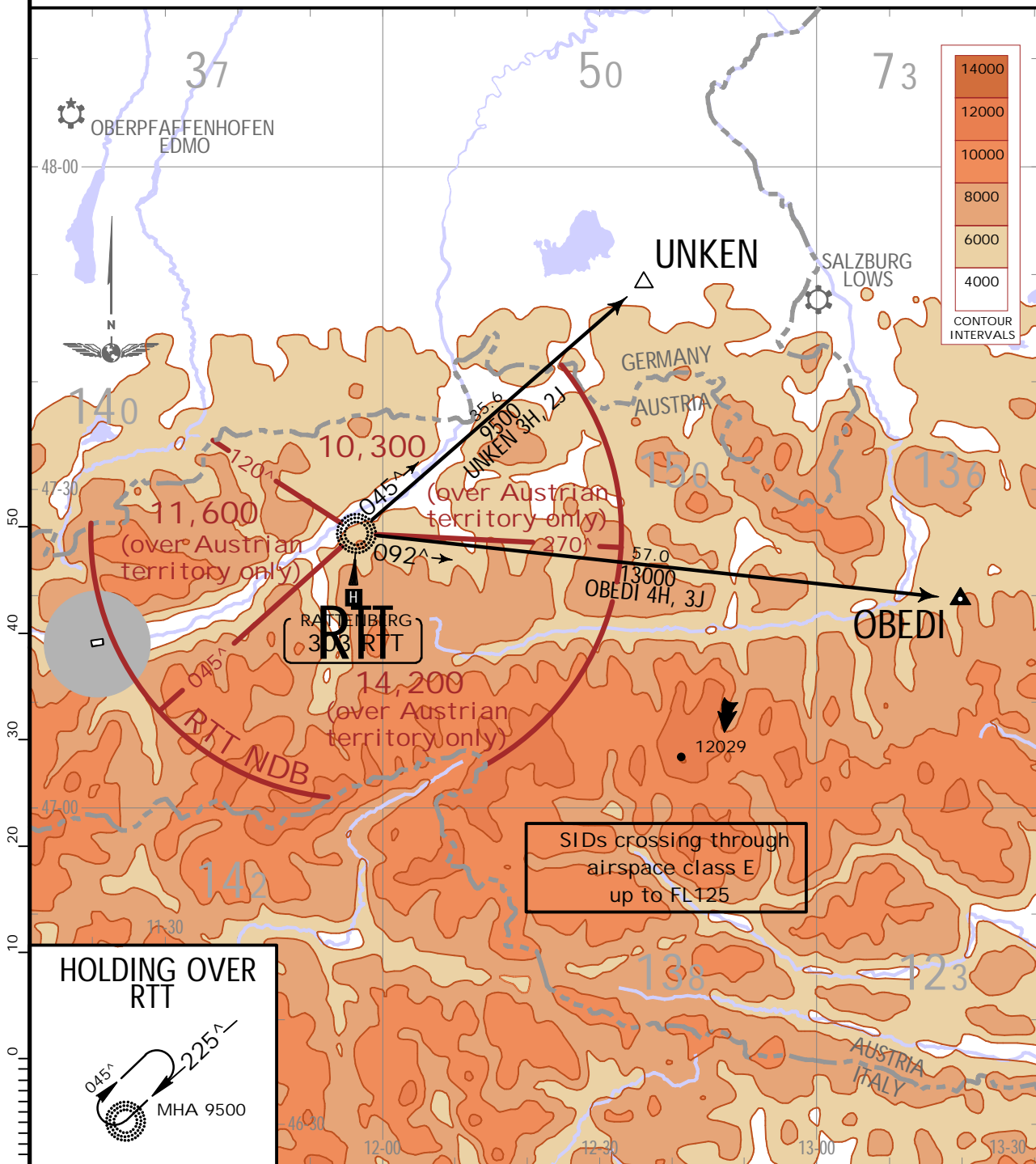
JEPPESEN  
1 OCT 21 (10-3B) .Eff.7.Oct.

INNSBRUCK, AUSTRIA  
.SID.

*INNSBRUCK Radar (APP) 128.975	Apt Elev 1907	Trans alt: 10000 Contact INNSBRUCK RADAR when advised by Tower.
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OBEDI 4H  
UNKEN 3H  
RWY 26 DEPARTURES  
OBEDI 3J [OBED3J]  
UNKEN 2J [UNKE2J]  
RWY 08 DEPARTURES

FOR INITIAL CLIMB-OUT REFER TO CHARTS 10-3 OR 10-3A



Initial climb clearance By ATC	
SID	ROUTING
OBEDI 4H, 3J	At RTT 092° bearing to OBEDI.
UNKEN 3H, 2J	At RTT 045° bearing to UNKEN.

LOWI/INN  
INNSBRUCK

JEPPESEN

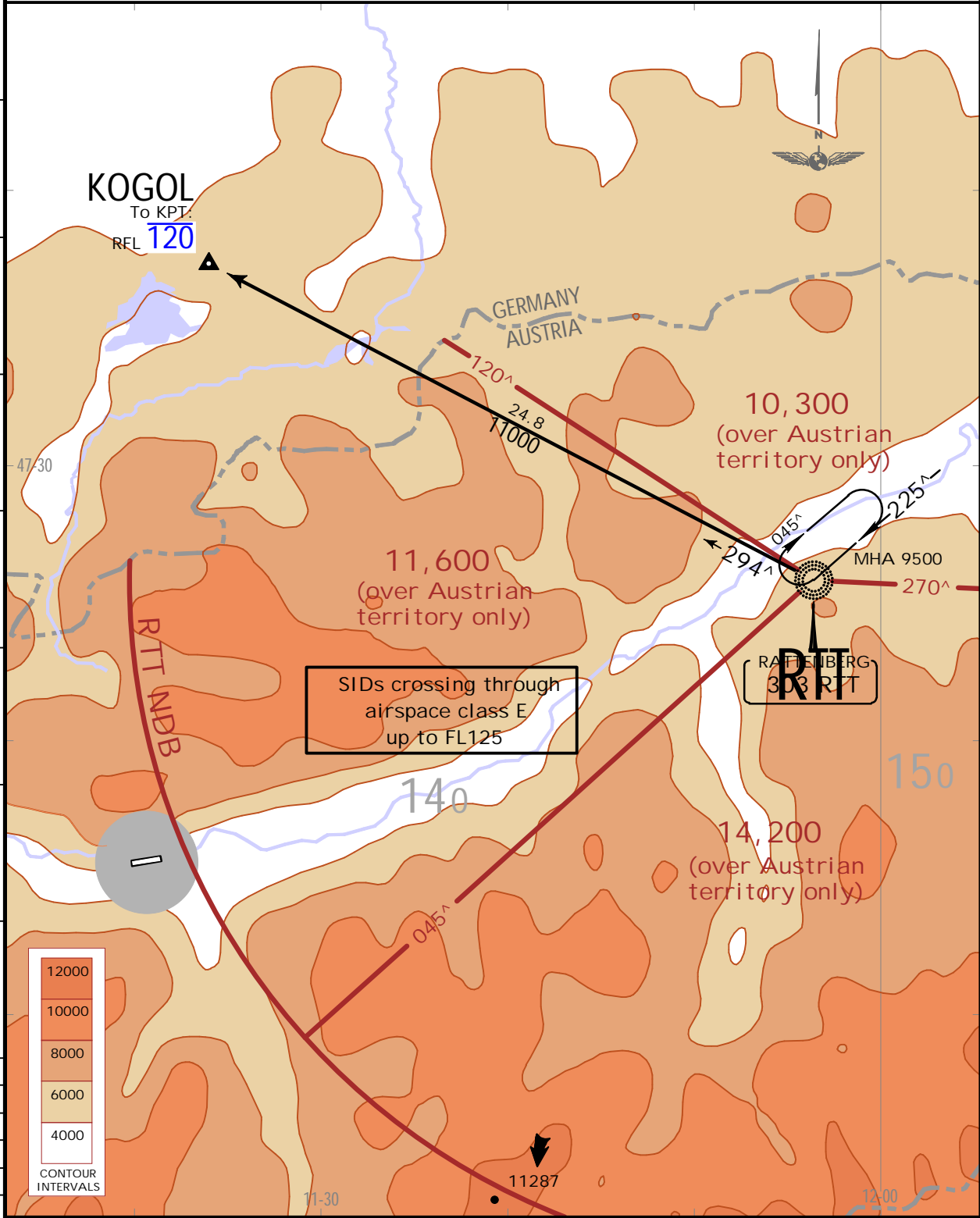
INNSBRUCK, AUSTRIA  
.SID.

1 OCT 21 (10-3C) .Eff.7.Oct.

*INNSBRUCK Radar (APP) 128.975	Apt Elev 1907	Trans alt: 10000 Contact INNSBRUCK RADAR when advised by Tower.
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KOGOL 4H  
RWY 26 DEPARTURE  
KOGOL 3J [KOG03J]  
RWY 08 DEPARTURE  
FOR INITIAL CLIMB-OUT REFER  
TO CHARTS 10-3 OR 10-3A

45  
40  
35  
30  
25  
20  
15  
10  
5  
0  
-5



Initial climb clearance By ATC  
ROUTING

At RTT 294° bearing to KOGOL.

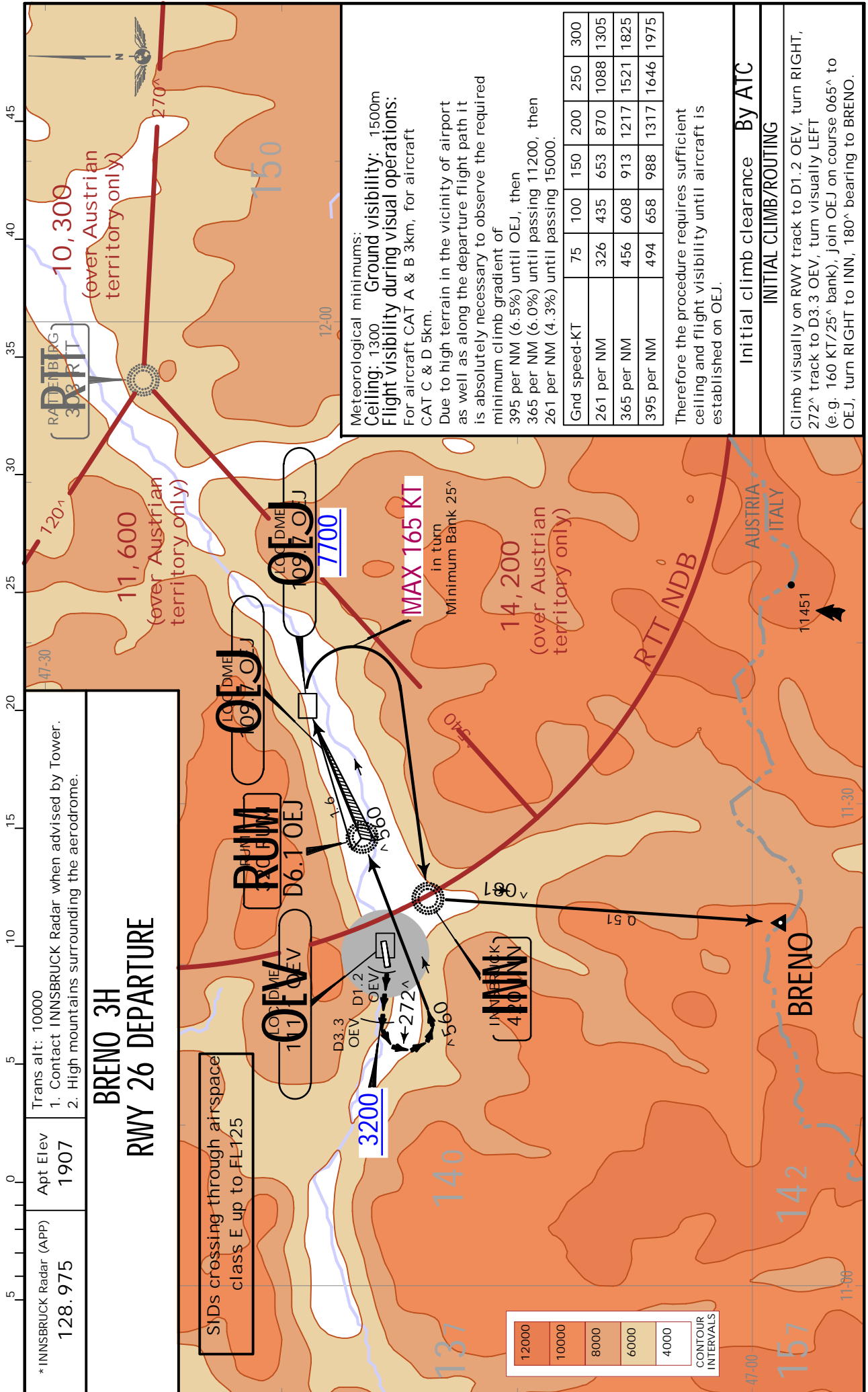
**LOWI/INN**  
INNSBRUCK

**JEPPesen**

**INNSBRUCK, AUSTRIA**

1 OCT 21 (10-3D) .Eff.7.Oct.

.SID.



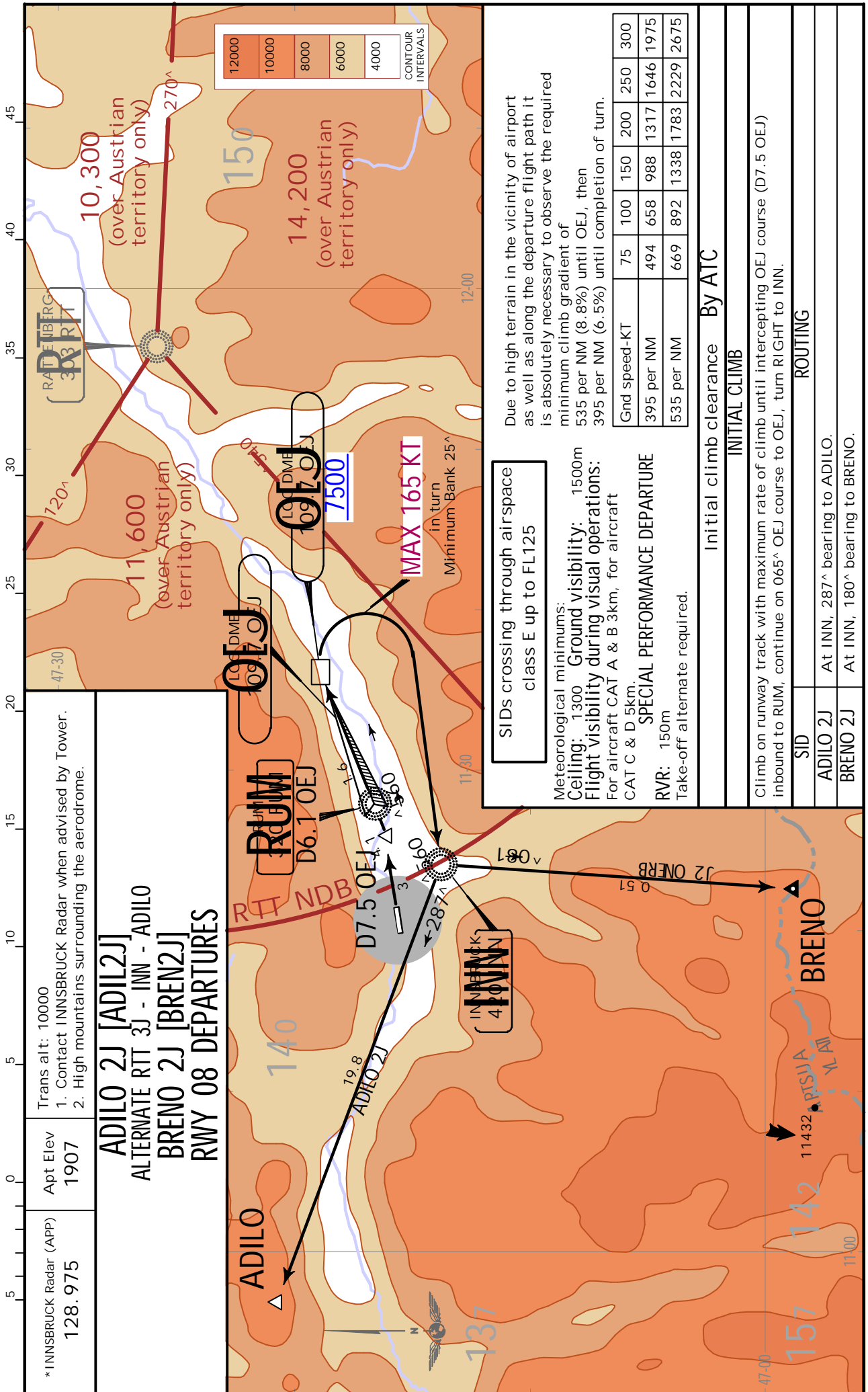
**LOWI/INN**  
INNSBRUCK

**JEPPESEN**

**INNSBRUCK, AUSTRIA**

1 OCT 21 (10-3E) .Eff.7.Oct.

.SID.



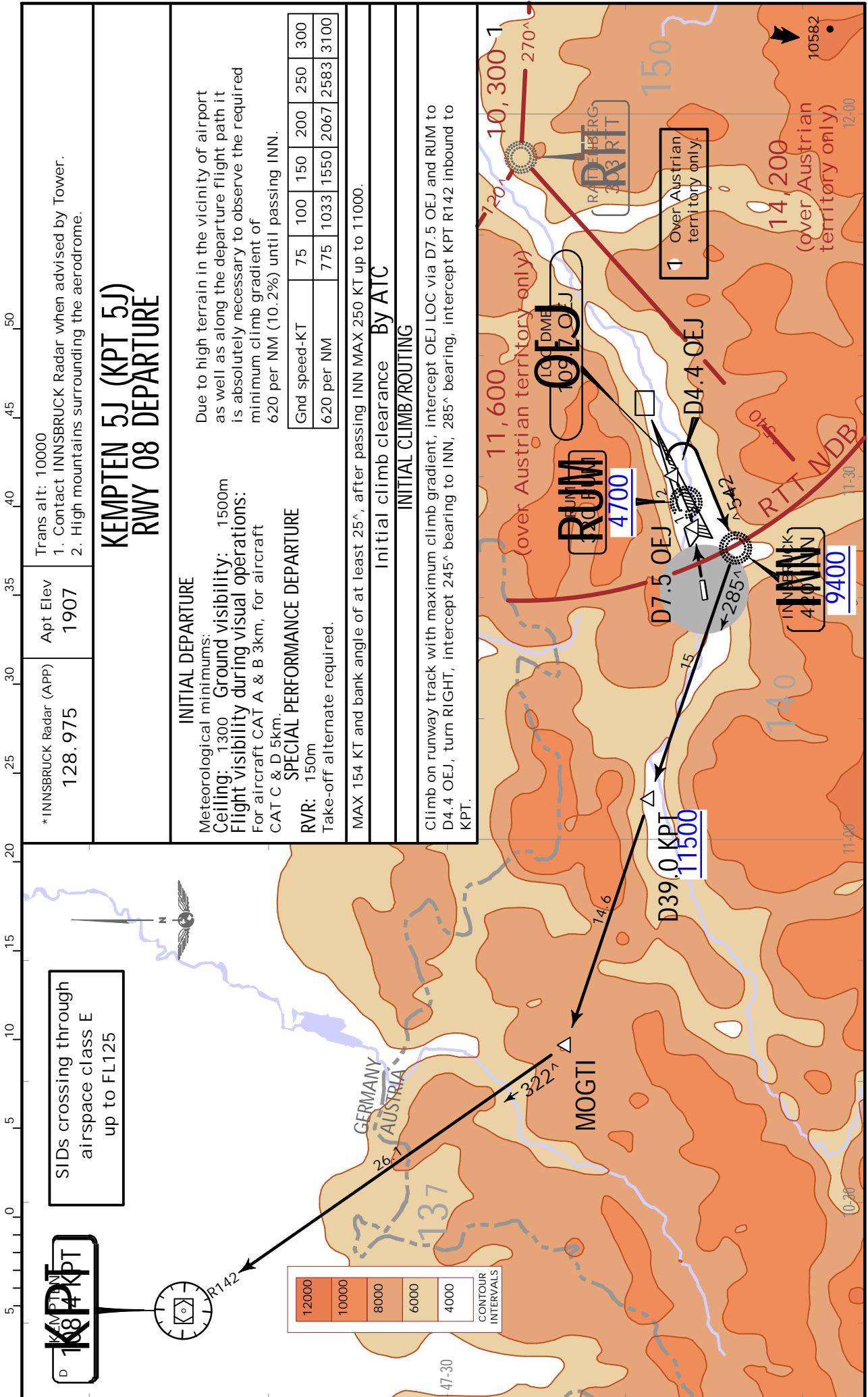


**LOWI/INN**  
INNSBRUCK

**JEPPESEN**

**INNSBRUCK, AUSTRIA**  
.SID.

1 OCT 21 (10-3F) .Eff.7.Oct.



**LOWI/INN**  
INNSBRUCK



1 OCT 21 (10-3G) .Eff.7.Oct.

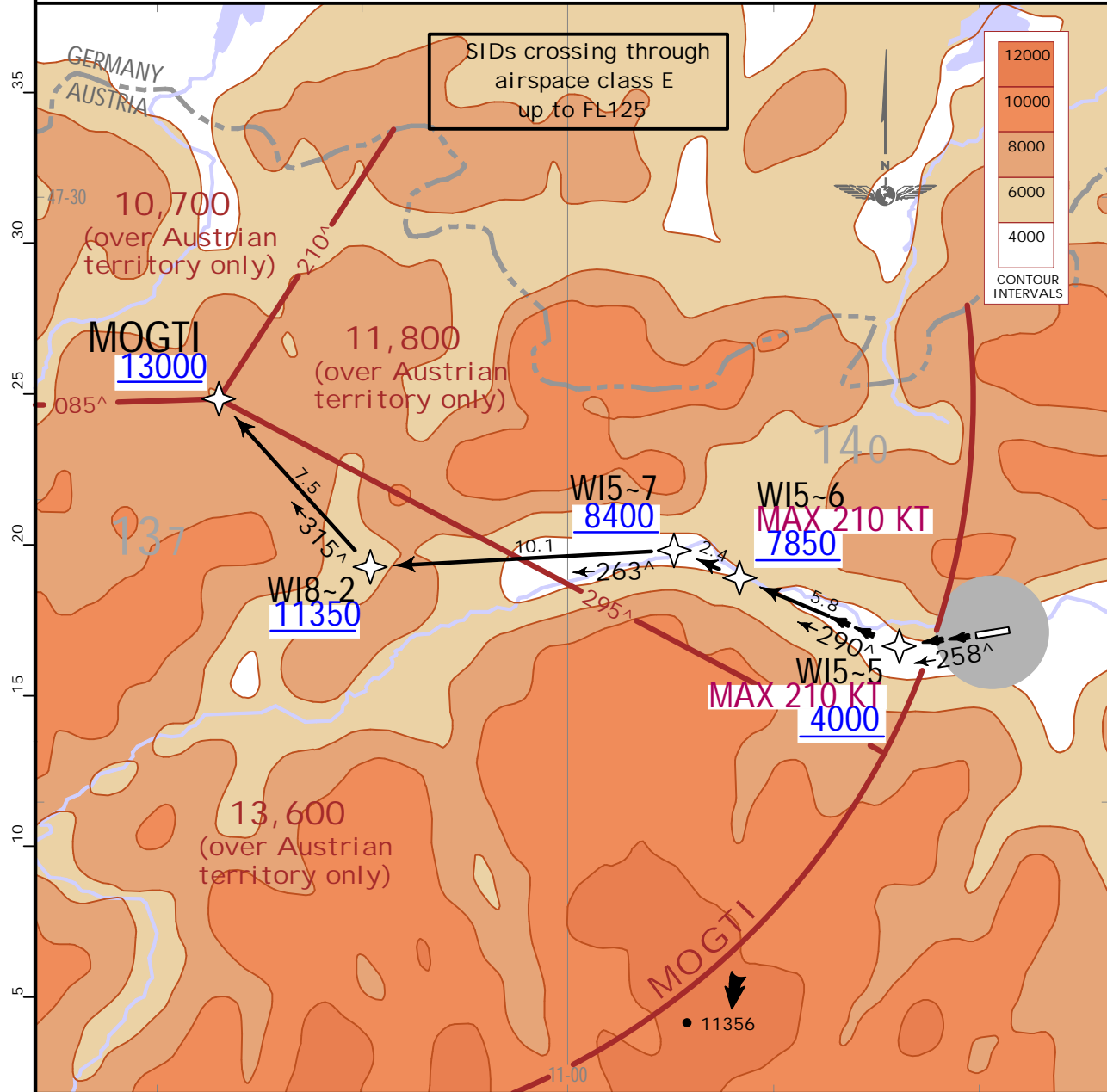
**INNSBRUCK, AUSTRIA**  
.RNAV.SID.

\*INNSBRUCK Radar (APP)  
128.975

Apt Elev  
1907

- Trans alt: 10000
1. GNSS required. 2. RNAV 1 approval required.
  3. Contact INNSBRUCK Radar when advised by Tower.
  4. Pilots shall be well familiar with RNAV SID and the terrain along the western part of the Inn valley.
  5. Lower weather minima and reduced length of the visual part are available on request for operators/pilots of multi-engine ACFT with improved RNAV capability.
  6. High mountains surrounding the aerodrome.

**MOGTI 3H [MOGT3H]**  
**RWY 26 RNAV DEPARTURE**  
JETS AND TURBOPROPS



This SID requires minimum climb gradients of  
670 per NM (11.0%) up to 8400, then  
295 per NM (4.8%).

Meteorological minimums:  
Ceiling: 2100 Ground visibility: 5000m or better along the visual part west of aerodrome.

Gnd speed-KT	75	100	150	200	250	300
295' per NM	369	492	738	983	1229	1475
670' per NM	838	1117	1675	2233	2792	3350

Initial climb clearance **By ATC**

**INITIAL CLIMB/ROUTING**

Climb on 258° track, MAINTAIN visual until passing 4000 and established on 290° track at WI5-5 - WI5-6 - WI5-7 - WI8-2 - MOGTI.



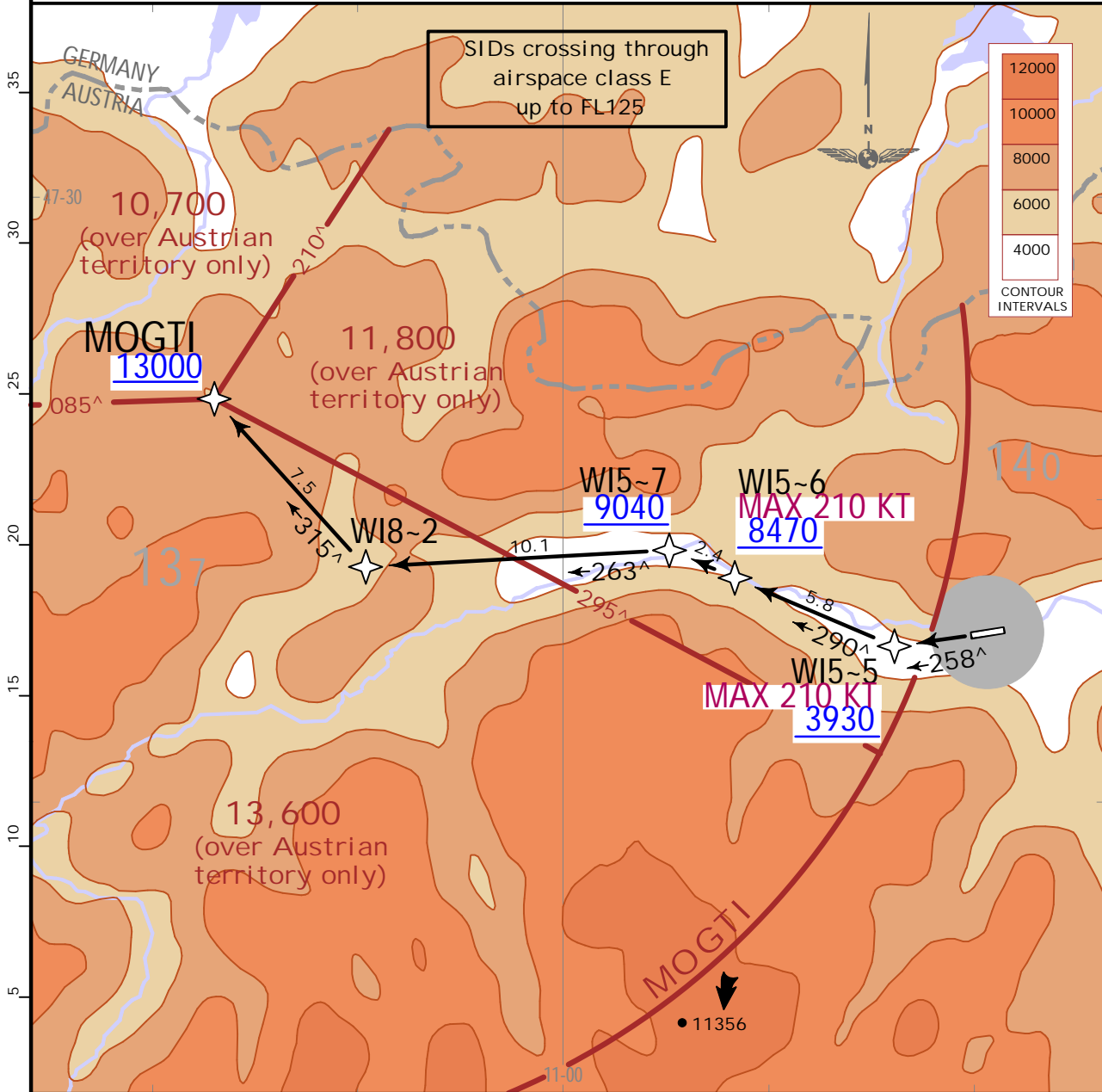
**LOWI/INN**  
INNSBRUCK

**JEPPESEN**  
1 OCT 21 (10-3G1) .Eff.7.Oct.

**INNSBRUCK, AUSTRIA**  
.RNAV.SID.

*INNSBRUCK Radar (APP) 128.975	Apt Elev 1907	Trans alt: 10000 1. GNSS required. 2. RNAV 1 approval required. 3. Contact INNSBRUCK Radar when advised by Tower. 4. Pilots shall be well familiar with RNAV SID and the terrain along the western part of the Inn valley. 5. High mountains surrounding the aerodrome.
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**MOGTI 1R [MOGT1R]**  
**RWY 26 RNAV DEPARTURE**  
JETS AND TURBOPROPS



Meteorological minimums:  
 Ceiling: 1300 Ground visibility: 1500m  
 Flight visibility during visual operations:  
 For aircraft CAT A & B 3km,  
 for aircraft CAT C & D 5km.

Gnd speed-KT	75	100	150	200	250	300
250 per NM	313	417	625	833	1042	1250
780 per NM	975	1300	1950	2600	3250	3900

Due to high terrain in the vicinity of airport as well as along the departure flight path it is absolutely necessary to observe the required minimum climb gradient of 780 per NM (12.8%) until passing 8470, then 250 per NM (4.1%) until passing 11 520.

Initial climb clearance **By ATC**

**INITIAL CLIMB/ROUTING**

Climb on 258° track to WI5-5 - WI5-6 - WI5-7 - WI8-2 - MOGTI.

**LOWI/INN**  
INNSBRUCK



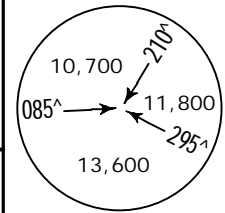
**INNSBRUCK, AUSTRIA**  
.RNAV.SID.

1 OCT 21 (10-3H) .Eff.7.Oct.

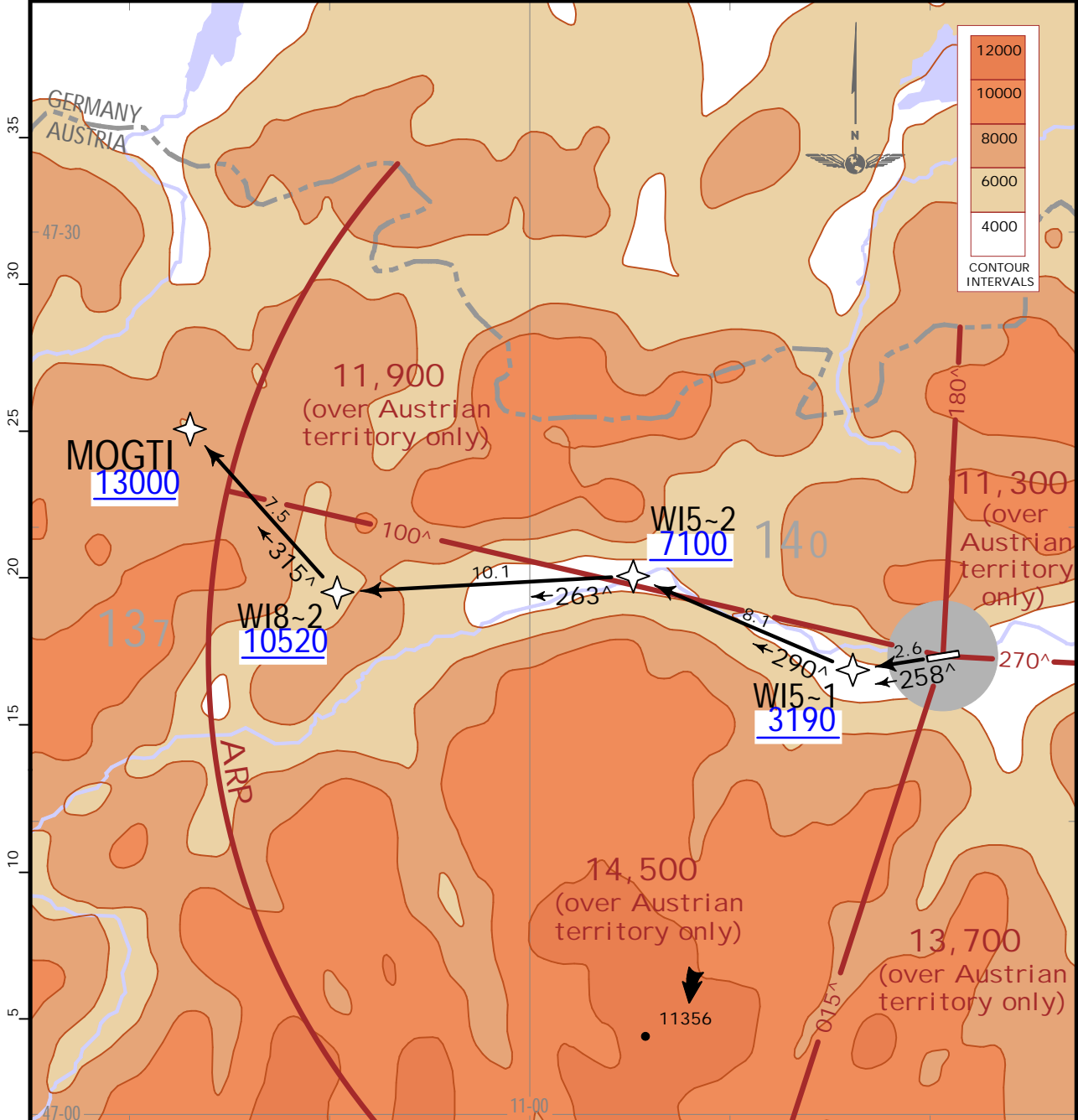
\* INNSBRUCK Radar (APP)  
128.975

Apt Elev  
1907

- Trans alt: 10000
1. Dual GNSS and at least one IRU or equivalent.
  2. DME/DME, LOC and VOR/DME updating not authorized.
  3. Contact INNSBRUCK Radar when advised by Tower.
  4. High mountains surrounding the aerodrome.



**MOGTI 1X [MOGT1X]**  
**RWY 26 SPECIAL PERFORMANCE**  
**RNAV (RNP) DEPARTURE**  
SPECIAL AUTHORIZATION REQUIRED (REFER TO 10-1P PAGES)



This SID requires minimum climb gradients of  
8.0% (490 per NM) until passing 7100, then  
5.6% (345 per NM).

Gnd speed-KT	75	100	150	200	250	300
5.6% V/V (fpm)	425	567	851	1134	1418	1701
8.0% V/V (fpm)	608	810	1215	1620	2025	2430

SIDs crossing through airspace class E up to FL125

Initial climb clearance By ATC

INITIAL CLIMB/ROUTING

Climb on 258° track to WI5-1 - WI5-2 - WI8-2 - MOGTI.

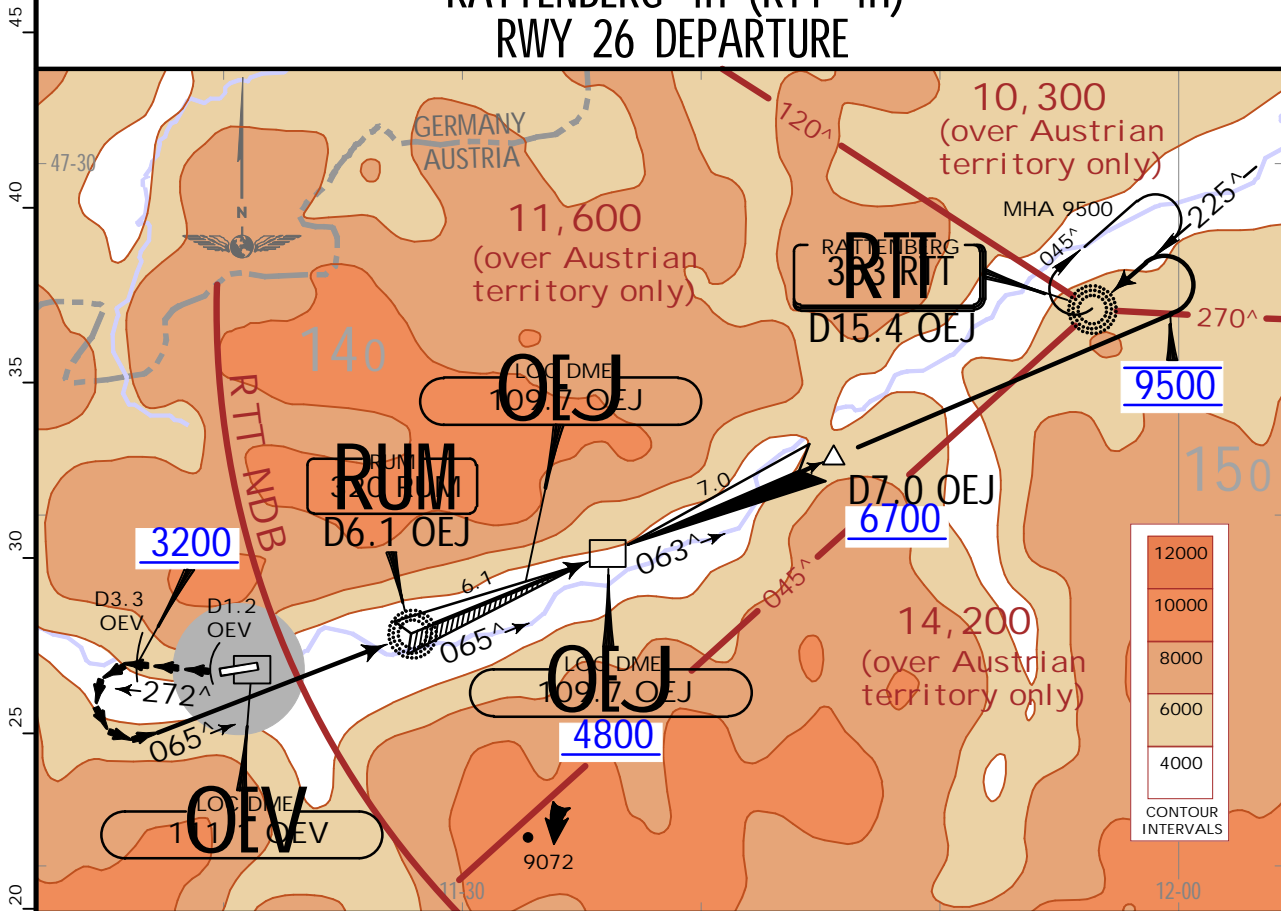
**LOWI/INN**  
INNSBRUCK

**JEPPESEN**  
1 OCT 21 (10-3J) .Eff.7.Oct.

**INNSBRUCK, AUSTRIA**  
.SID.

*INNSBRUCK Radar (APP) 128.975	Apt Elev 1907	Trans alt: 10000 1. Contact INNSBRUCK Radar when advised by Tower. 2. High mountains surrounding the aerodrome.
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**RATTENBERG 4H (RTT 4H)**  
**RWY 26 DEPARTURE**



SIDs crossing through  
airspace class E  
up to FL125

Due to high terrain in the vicinity of airport as well as along the departure flight path it is absolutely necessary to observe the required minimum climb gradient of 205 per NM (3.3%).

Meteorological minimums:  
Ceiling: 1300 Ground visibility: 1500m  
Flight visibility during visual operations:  
For aircraft CAT A & B 3km, for aircraft CAT C & D 5km.

Gnd speed-KT	75	100	150	200	250	300
205 per NM	256	342	513	683	854	1025

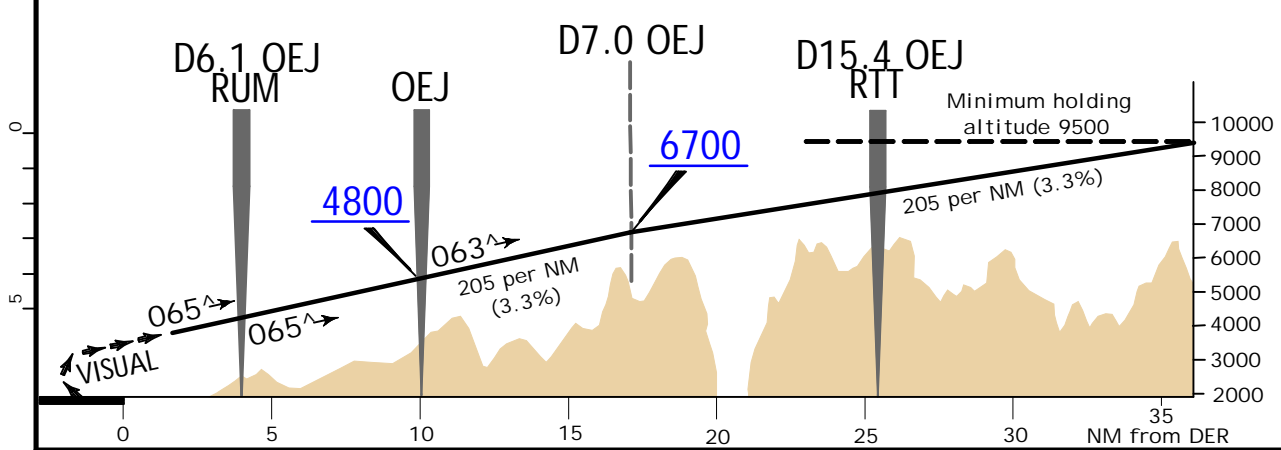
Therefore the procedure requires sufficient ceiling and flight visibility until aircraft is established on OEJ.

**Initial climb clearance By ATC**

**INITIAL CLIMB/ROUTING**

Climb visually on RWY track to D1.2 OEJ, turn RIGHT, 272° track to D3.3 OEJ, turn visually LEFT (e.g. 160 KT/25° bank), join OEJ on course 065° to OEJ. At OEJ change to 063° and continue to 9500 using OEJ back course, then turn LEFT to RTT.  
Due to erroneous LOC indications when off centerline from 2.0 DME before until 2.0 DME after LOC-DME station, use RUM as additional guidance.

**REQUIRED MINIMUM CLIMB PROFILE**



**LOWI/INN**  
INNSBRUCK

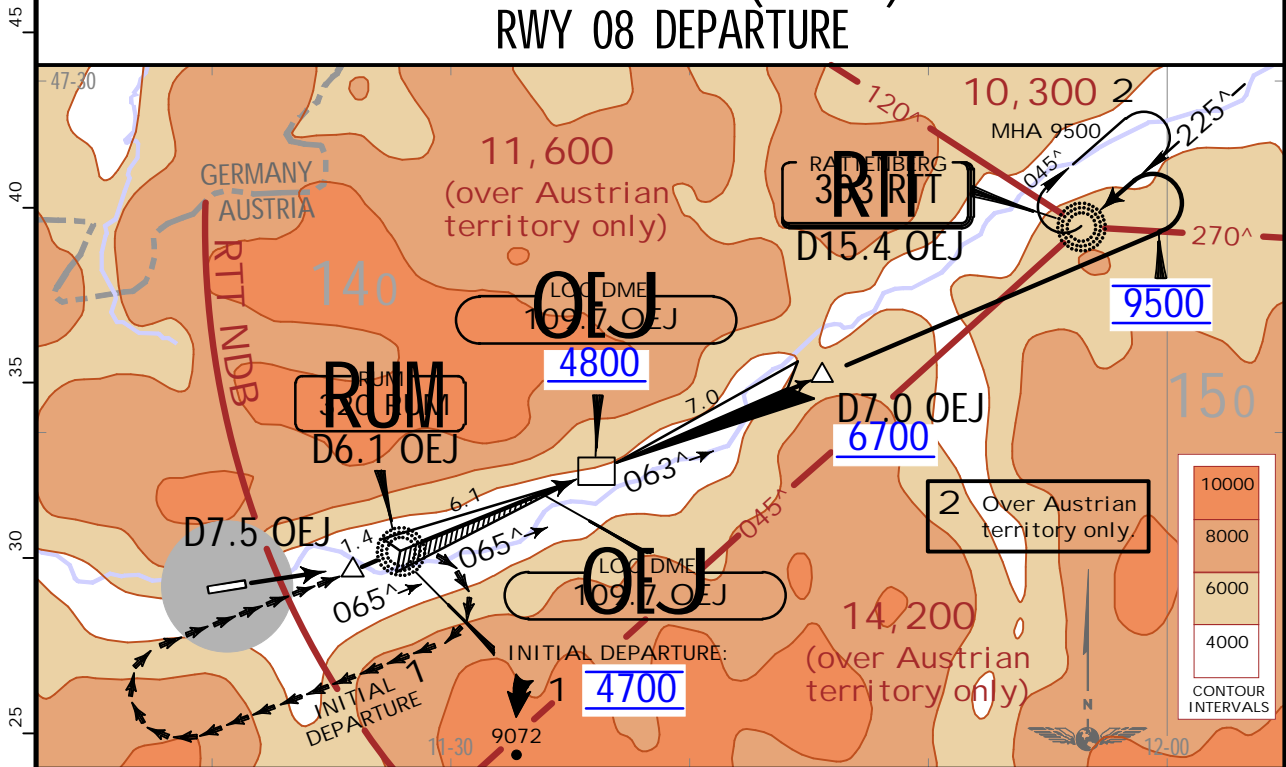
**JEPPESEN**

**INNSBRUCK, AUSTRIA**  
.SID.

1 OCT 21 (10-3K) .Eff.7.Oct.

*INNSBRUCK Radar (APP) 128.975	Apt Elev 1907	Trans alt: 10000 1. Contact INNSBRUCK Radar when advised by Tower. 2. High mountains surrounding the aerodrome.
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**RATTENBERG 3J (RTT 3J)**  
**RWY 08 DEPARTURE**



SIDs crossing through airspace class E up to FL125

Meteorological minimums:  
Ceiling: 1300 Ground visibility: 1500m  
Flight visibility during visual operations:  
For aircraft CAT A & B 3km, for aircraft CAT C & D 5km.

**SPECIAL PERFORMANCE DEPARTURE**  
RVR: 150m  
Take-off alternate required.

Due to high terrain in the vicinity of airport as well as along the departure flight path it is absolutely necessary to observe the required minimum climb gradient of 290 per NM (4.8%) until passing 6700.

Gnd speed-KT	75	100	150	200	250	300
290 per NM	363	483	725	967	1208	1450

1 If unable to cross OEJ at 4800 and D7.0 OEJ EAST of OEJ at 6700, a higher ceiling and visibility is necessary. In this case climb visually via RUM at 4700 205 per NM (3.3%).

Gnd speed-KT	75	100	150	200	250	300
205 per NM	256	342	513	683	854	1025

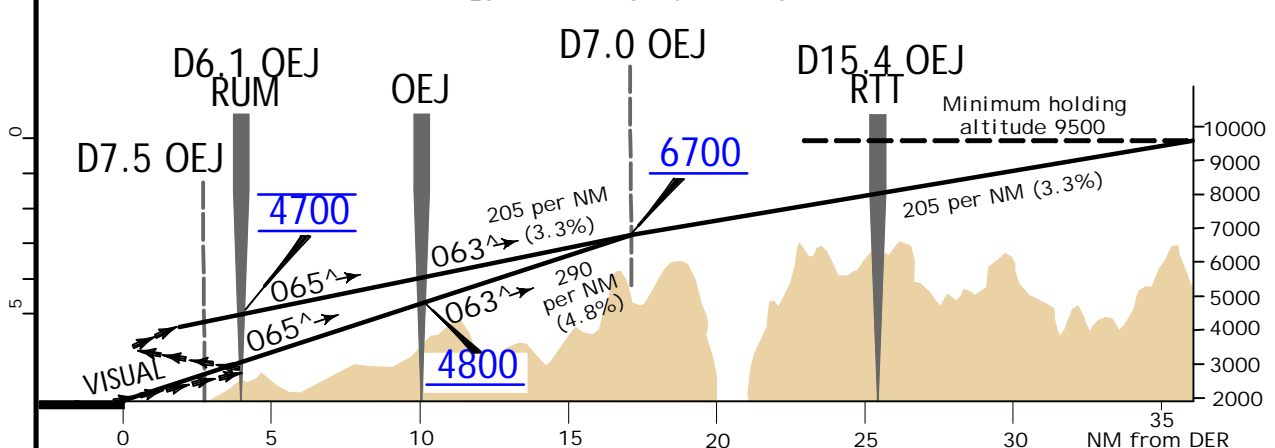
**Initial climb clearance By ATC**

**INITIAL CLIMB**

Climb on runway track with maximum rate of climb until intercepting OEJ course (D7.5 OEJ) inbound to RUM, continue on 065^ OEJ course. At OEJ change to 063^ and continue to 9500 using OEJ back course, then turn LEFT to RTT.

Due to erroneous LOC indications when off centerline from 2.0 DME before until 2.0 DME after LOC-DME station, use RUM as additional guidance.

**REQUIRED MINIMUM CLIMB PROFILE**



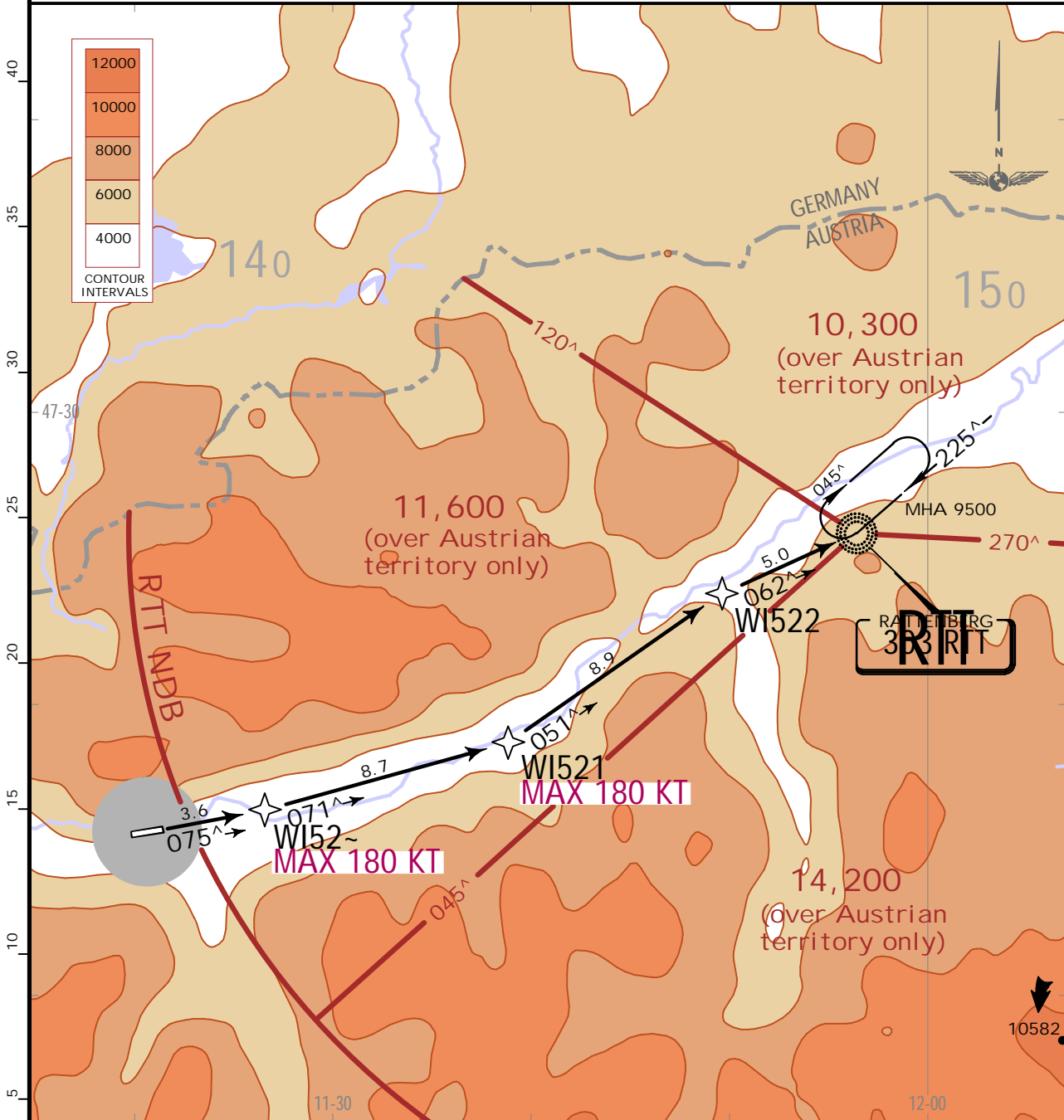
**LOWI/INN**  
INNSBRUCK

**JEPPESEN**  
1 OCT 21 (10-3L) .Eff.7.Oct.

**INNSBRUCK, AUSTRIA**  
.RNAV.SID.

*INNSBRUCK Radar (APP) 128.975	Apt Elev 1907	Trans alt: 10000 1. GNSS required. 2. RNAV 1 approval required. 3. Contact INNSBRUCK Radar when advised by Tower. 4. High mountains surrounding the aerodrome.
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**RATTENBERG 2Q (RTT 2Q)**  
**RWY 08 RNAV DEPARTURE**



SIDs crossing through  
airspace class E  
up to FL125

Meteorological minimums:  
Ceiling: 1300 Ground visibility: 1500m  
Flight visibility during visual operations:  
For aircraft CAT A & B 3km, for aircraft  
CAT C & D 5km.  
**SPECIAL PERFORMANCE DEPARTURE**  
RVR: 150m  
Take-off alternate required.

Due to high terrain in the vicinity of airport  
as well as along the departure flight path it is  
absolutely necessary to observe the required  
minimum climb gradient  
of  
425 per NM (7.0%) until passing WI521.

Gnd speed-KT	75	100	150	200	250	300
425 per NM	531	708	1063	1417	1771	2125

Initial climb clearance **By ATC**  
**INITIAL CLIMB/ROUTING**

WI52~ - WI521 - WI522 - RTT.



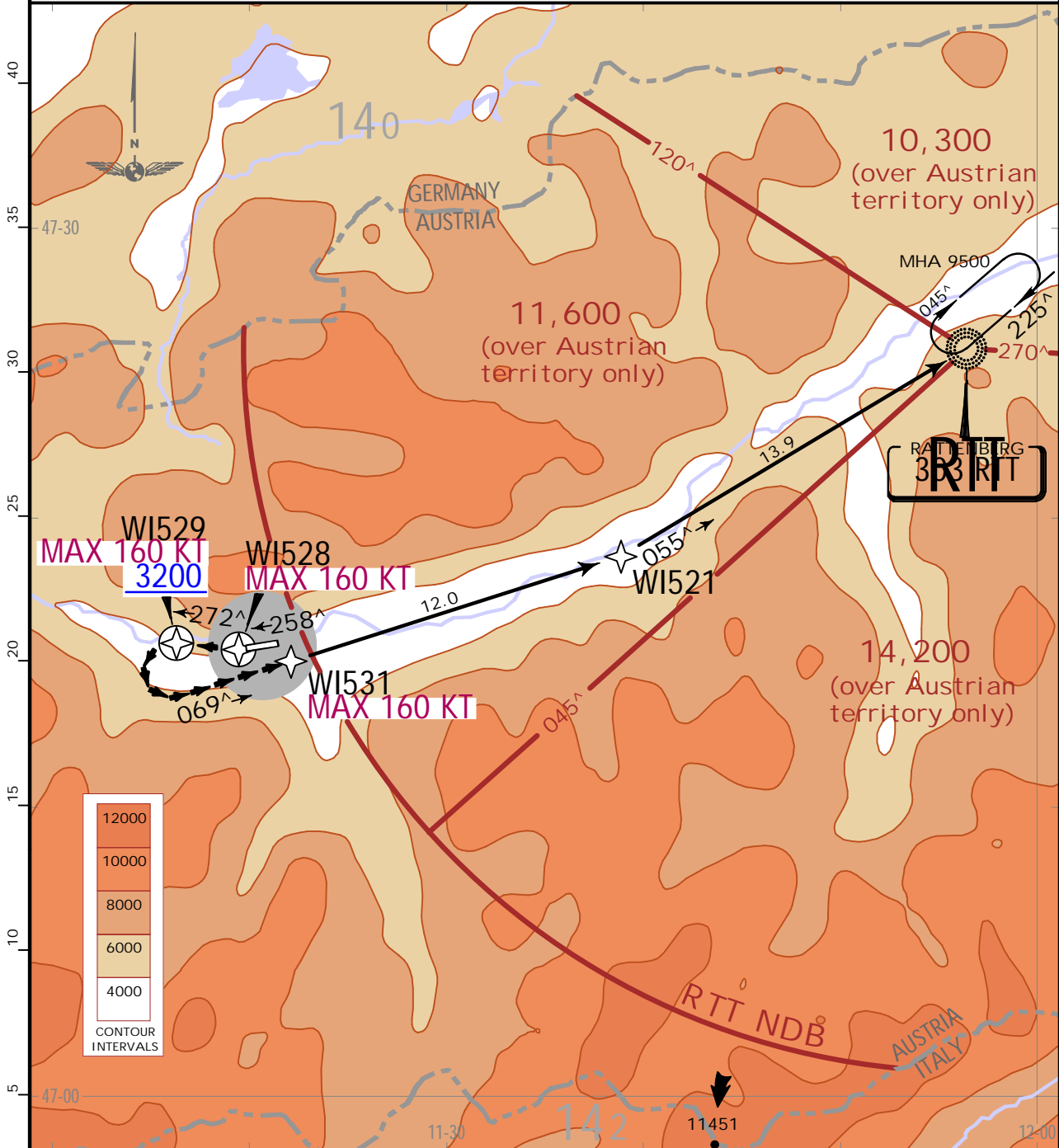
**LOWI/INN**  
INNSBRUCK

**JEPPESEN**  
1 OCT 21 (10-3M) .Eff.7.Oct.

**INNSBRUCK, AUSTRIA**  
.RNAV.SID.

* INNSBRUCK Radar (APP) <b>128.975</b>	Apt Elev <b>1907</b>	Trans alt: 10000 1. GNSS required. 2. RNAV 1 approval required. 3. Contact INNSBRUCK Radar when advised by Tower. 4. High mountains surrounding the aerodrome.
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**RATTENBERG 1R (RTT 1R)**  
**RWY 26 RNAV DEPARTURE**



SIDs crossing through  
airspace class E  
up to FL125

Meteorological minimums:  
Ceiling: 1300 Ground visibility: 1500m  
Flight visibility during visual operations:  
For aircraft CAT A & B 3km, for aircraft  
CAT C & D 5km.

Due to high terrain in the vicinity of airport as well  
as along the departure flight path it is absolutely  
necessary to observe the required minimum climb  
gradient  
of  
535 per NM (8.8%) until passing WI531.

Gnd speed-KT	75	100	150	200	250	300
535 per NM	669	892	1338	1783	2229	2675

**Initial climb clearance By ATC**  
**INITIAL CLIMB/ROUTING**

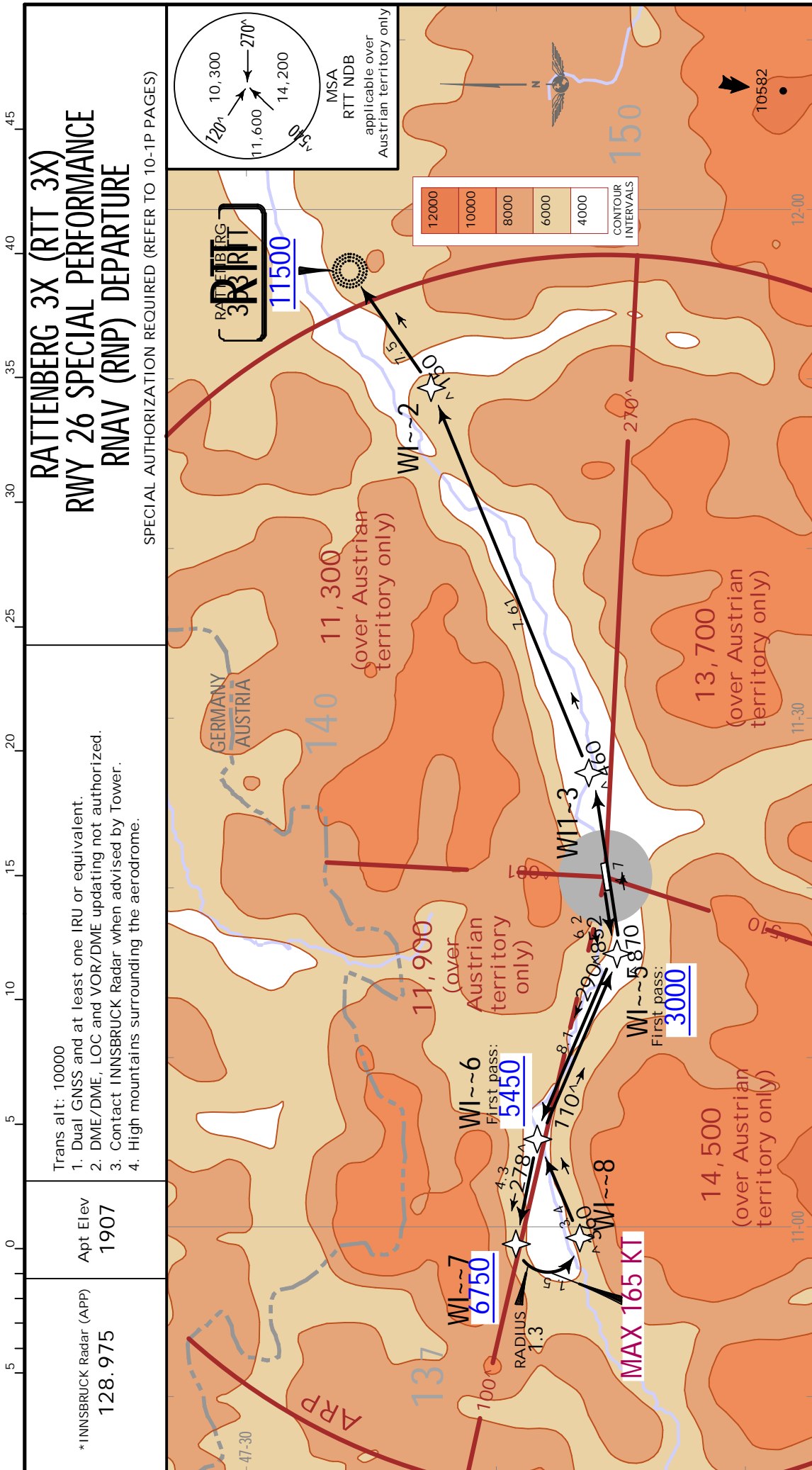
Climb visually on 258° track to WI528 - WI529, MAINTAIN visual until 069° track to WI531 - WI521 - RTT.



**LOWI/INN**  
INNSBRUCK

**JEPPesen**  
1 OCT 21 (10-3N) .Eff.7.Oct.

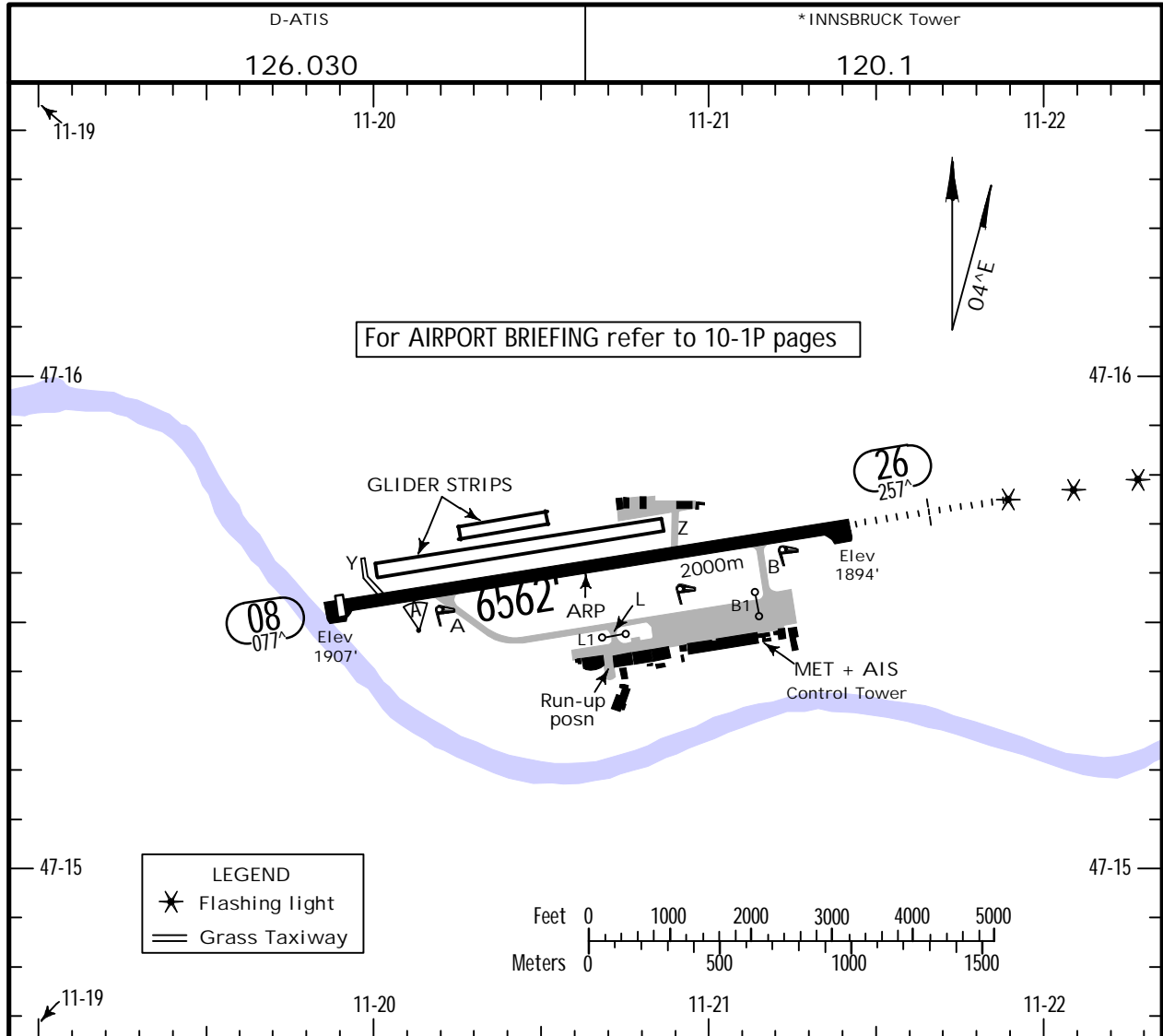
**INNSBRUCK, AUSTRIA**  
.RNAV.SID.



**LOWI/INN**  
 Apt Elev 1907'  
 N47 15.6 E011 20.6

**JEPPESEN**  
 1 OCT 21 (10-9).Eff.7.Oct.

**INNSBRUCK, AUSTRIA**  
 INNSBRUCK



**LEGEND**

- \* Flashing light
- == Grass Taxiway

**ADDITIONAL RUNWAY INFORMATION**

RWY	HIRL (60m) CL (15m) 1 TDZ 2 PAPI (3.5°) RVR	USABLE LENGTHS		TAKE-OFF	WIDTH
		Threshold	Glide Slope		
08	HIRL (60m) CL (15m) 1 TDZ 2 PAPI (3.5°) RVR	6365' 1940m	5453' 1662m	5	148' 45m
26	HIRL (60m) CL (15m) HIALS 3 TDZ 2 SFL REIL 4 RVR				

- 1 No CL lights on first 197'/60m from begin of RWY until displ thresh. To use full RWY length observe TORA 6562'/2000m sign.
  - 2 Simple Touchdown Zone Lights
  - 3 only partly visible between 1969'/600m and 1870'/570m before thresh rwy 26.
  - 4 PAPI-L (3.5°)
  - 5 TAKE-OFF RUN AVAILABLE
- |   |   |
|---|---|
| <p><u>Rwy 08:</u> from rwy head 6562' (2000m)</p> <p style="padding-left: 20px;">twy Y int (grass) 5925' (1806m)</p> <p style="padding-left: 20px;">twy A int 5203' (1586m)</p> <p style="padding-left: 20px;">twy Z int 2201' (671m)</p> | <p><u>Rwy 26:</u> from rwy head 6365' (1940m)</p> <p style="padding-left: 20px;">twy B int 5256' (1602m)</p> <p style="padding-left: 20px;">twy Z int 4206' (1282m)</p> |
|---|---|

<b>Standard.</b>	TAKE-OFF All Rwys
------------------	----------------------

A	1300' - 1500m 1
B	
C	
D	

1 Special performance departure: RVR 150m, take-off alternate required.





**LOWI/INN**  
INNSBRUCK

**JEPPESEN**  
MIM MISSED APCH CLIMB GRAD  
ACCORDING SPECIAL AUTHORIZATION

**INNSBRUCK AUSTRIA**  
Special LOC DME EAST

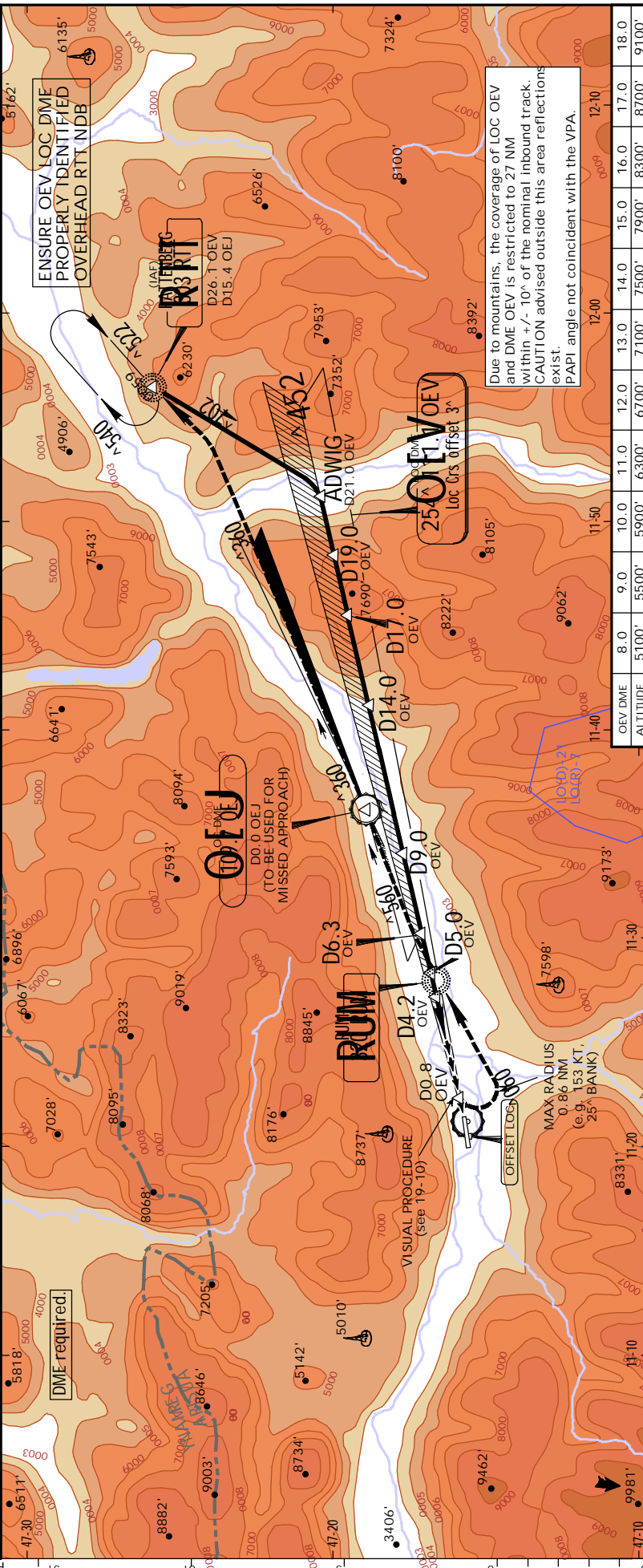
17 DEC 21  
Eff. 30 Dec. (11-2)

\*INNSBRUCK Radar (APP)

\*INNSBRUCK Tower

D-ATIS	126.030	128.975	120.1
LOC OEV	111.1	Minimum Alt D19.0 OEV 9500' (7606')	MDA(H) Refer to Minimums
Final Apch Crs	254 <sup>Λ</sup>	Apt Elev	1907'
		Rwy	1894'

Alt Set: hPa Rwy Elev: 67 hPa Trans alt: By ATC



Gnd Speed-Kts	70	90	100	120	140	160
GS or LOC Descent Angle	3.77 <sup>Λ</sup>	467	601	667	801	934
MAP as approved.						1068

**HIALS**  
REIL  
PAPI

Refer to  
Missed Apch  
above

**Standard.** VISUAL STRAIGHT-IN  
LANDING RWY 26

**ALS OUT**

with prescribed flight tracks

A	B	C	D

SEE 19-10

ACCORDING SPECIAL AUTHORIZATION

Altitude Table:

OEVDME	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0
ALTITUDE	5100'	5500'	5900'	6300'	6700'	7100'	7500'	7900'	8300'	8700'	9100'

**D19.0 ADWIG**  
OEVD21.0 OEV  
Intercept LOC

**D17.0 OEV**

**D14.0 OEV**

**D9.0 OEV**

**D6.3 OEV**

**D5.0 OEV**

**D4.2 OEV**

**D0.8 OEV**

**D26.1 OEV**

**D15.4 OEV**

**RTT NDB**  
D26.1 OEV  
9500'

**Profile:** Flight path and terrain contours are depicted to scale.

3.77<sup>Λ</sup> GS indication available between D19.0 OEV and MDA.







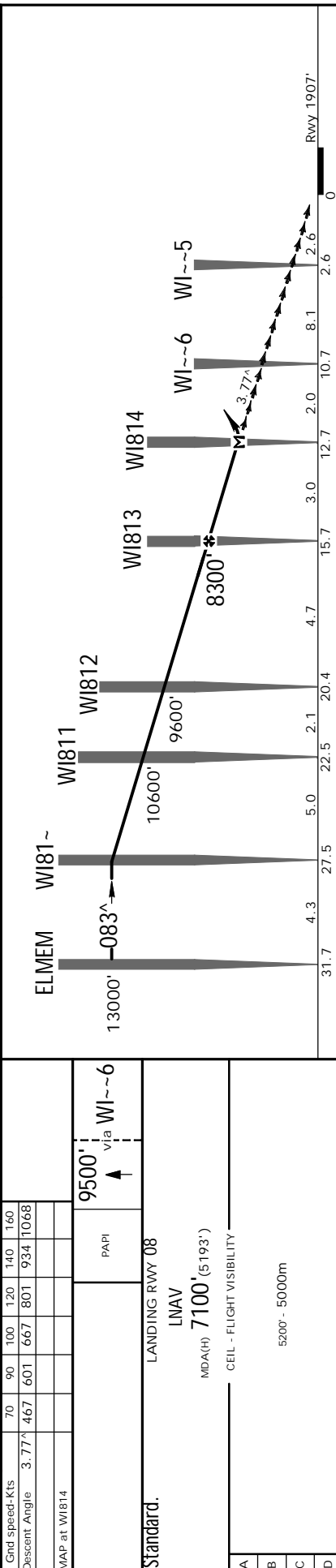
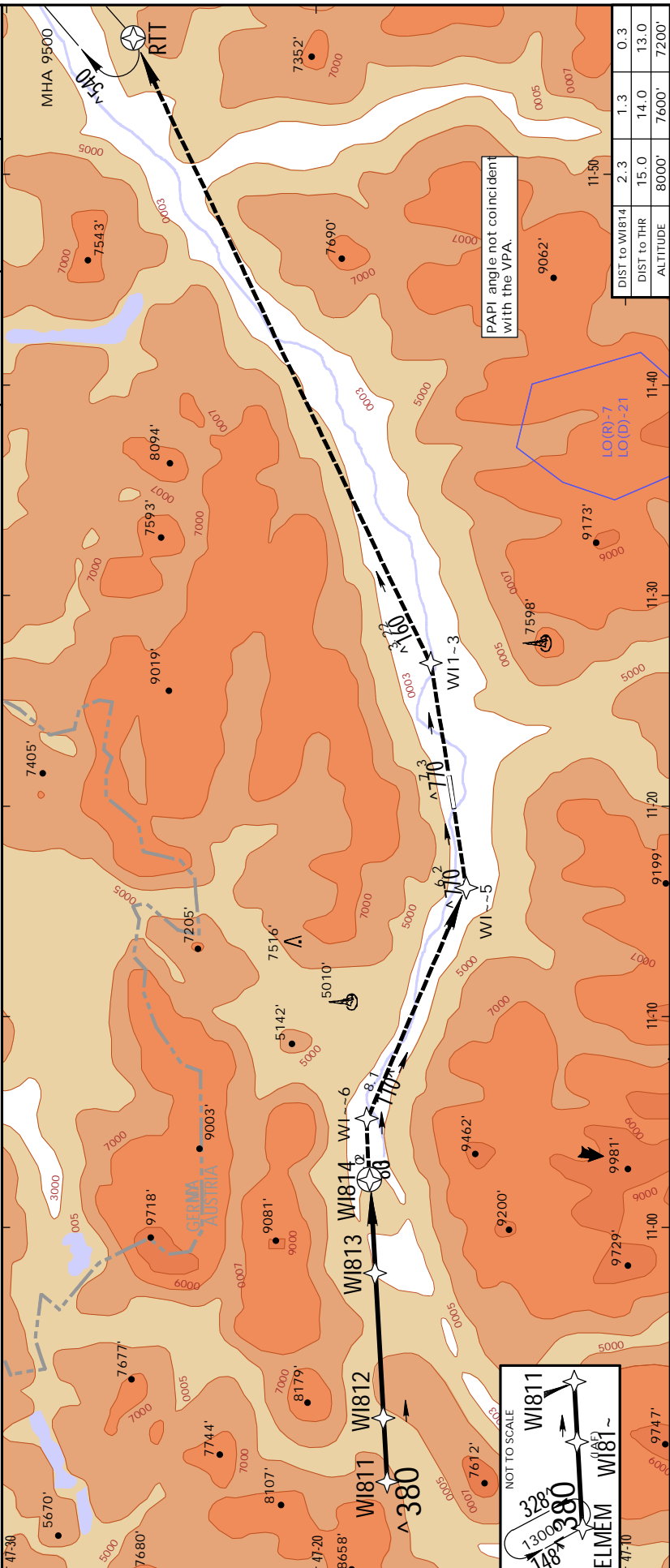


D-DATIS 126.030	*INNSBRUCK Radar (APP) 128.975	*INNSBRUCK Tower 120.1
RNAV	Final Apch Crs <b>083°</b>	MDA(H) <b>7100'</b> (5193')
	WI813 <b>8300'</b> (6393')	Apt Elev 1907' Rwy 1907'

**MISSED APCH: Climb to 9500' via RNAV missed approach track to RTT and hold.**  
RNP Apch Alt Set: hPa Rwy Elev: 68 hPa Trans level: By ATC

1. Procedure for cloudbreaking only provided effective external visual reference to the terrain exists and can be maintained from at or before reaching the MAP. Continue visually along the prescribed track (identical to missed approach track) and the required vertical descent profile. The rwy may not be or remain in sight at all times but other visual cues surrounding the track and the vicinity of the aerodrome may be used as sufficient external visual reference.

2. Pilots shall be well familiar with RNAV procedures in general but especially with this procedure and terrain along the western part of the Inn Valley.



Standard.	LANDING RWY 08 LNAV MDA(H) <b>7100'</b> (5193')
A	CEIL - FLIGHT VISIBILITY
B	5200' - 5000m
C	
D	



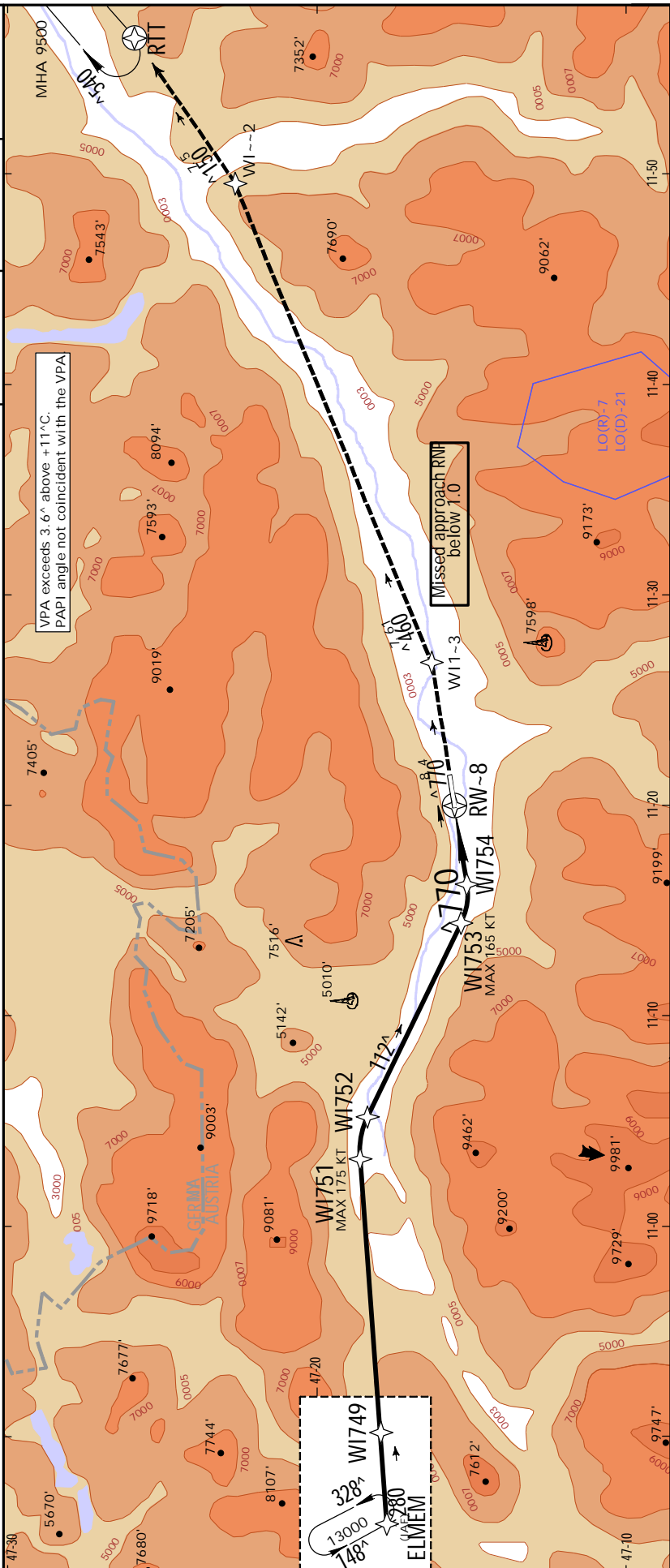
**LOWI/INN**  
INNSBRUCK

**JEPPESEN**  
9 SEP 22 (12-20)

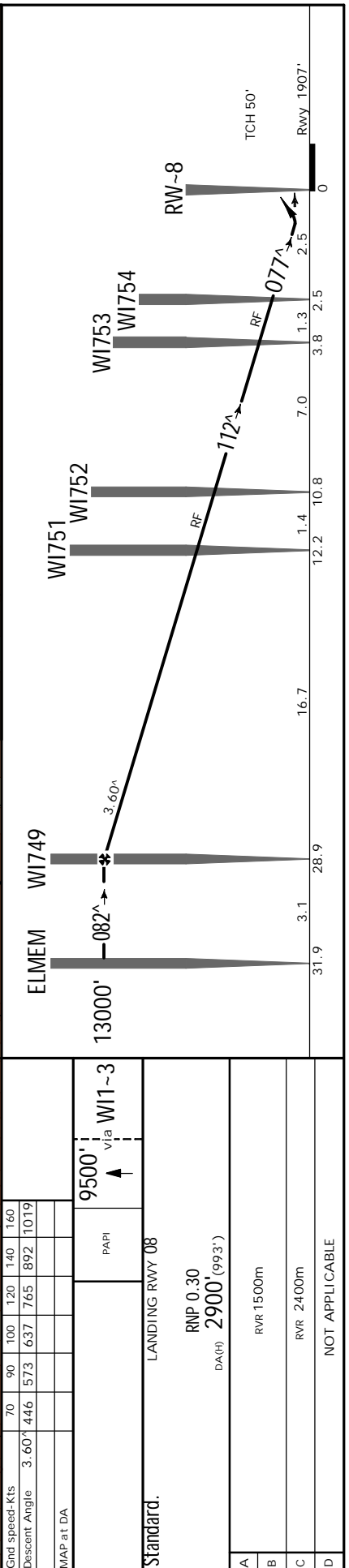
**INNSBRUCK, AUSTRIA**  
RNP Z Rwy 08 (AR)

CAT A,  
B & C

D-ATIS 126.030	*INNSBRUCK Radar (APP) 128.975	*INNSBRUCK Tower 120.1
RNAV	Final Apch Crs <b>077°</b>	RNP 0.3 DA(H) <b>2900'</b> (993')
MISSED APCH: Climb to 9500' via RNAV missed approach track to RTT and hold. Missed apch procedure based on RNP 0.30.		Apt Elev 1907' Rwy 1907'
RNP AR Apch	AIT Set: hPa	Trans alt: By ATC
1. SPECIAL AIRCREW & AIRCRAFT AUTHORIZATION REQUIRED (refer to AIRPORT BRIEFING 10-1P pages). 2. Dual GNSS and at least one Inertial Reference Unit or equivalent required (DME/DME, LOC and VOR/DME updating not authorized). 3. For uncompensated Baro-VNAV systems, procedure NA below airport temperature -7°C.		



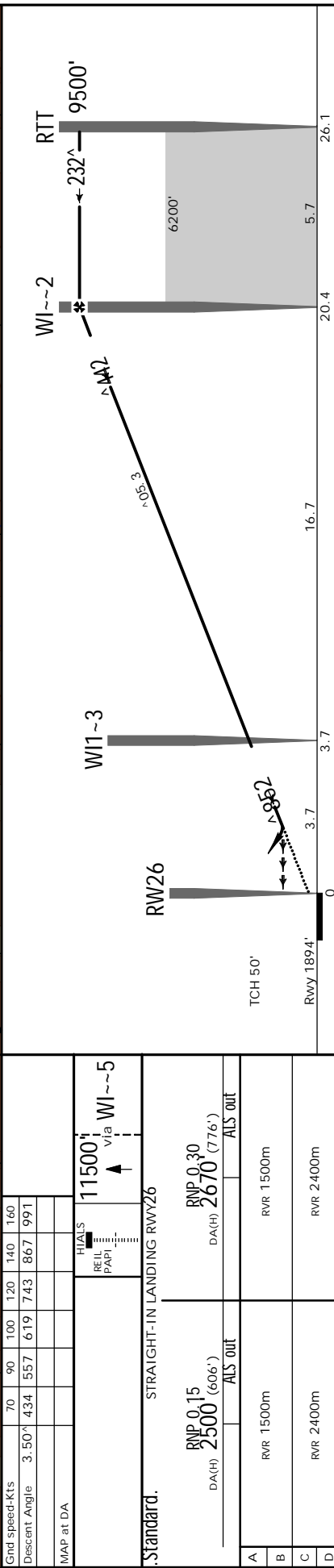
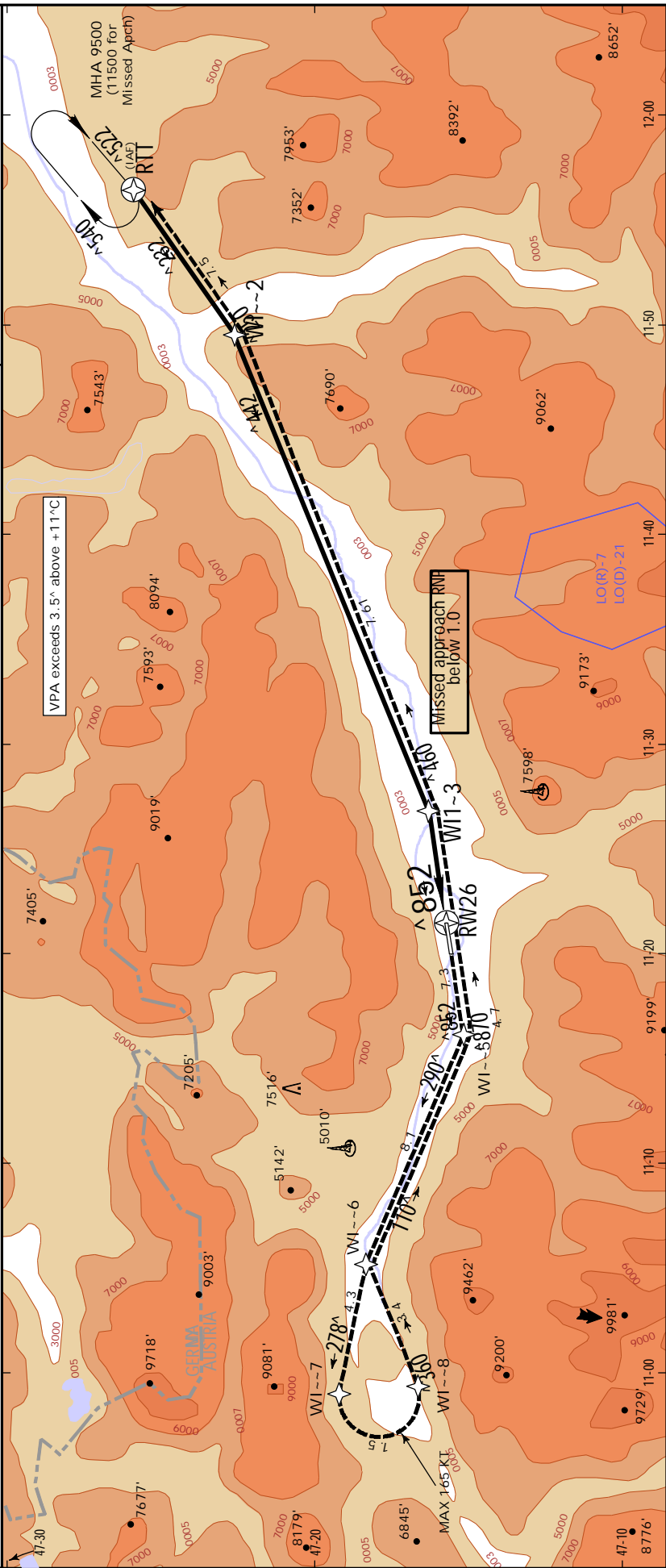
RNP AR Apch	AIT Set: hPa	Rwy Elev: 68 hPa
Trans alt: By ATC		
1. SPECIAL AIRCREW & AIRCRAFT AUTHORIZATION REQUIRED (refer to AIRPORT BRIEFING 10-1P pages). 2. Dual GNSS and at least one Inertial Reference Unit or equivalent required (DME/DME, LOC and VOR/DME updating not authorized). 3. For uncompensated Baro-VNAV systems, procedure NA below airport temperature -7°C.		



Wind speed-Kts	70	90	100	120	140	160
Descent Angle	3.60°	446	573	637	765	892 1019
MAP BT DA	PAPI					
Standard. LANDING RWY 08 RNP 0.30 DA(H) <b>2900'</b> (993') RVR 1500m RVR 2400m NOT APPLICABLE						

D-ATIS 126.030	*INNSBRUCK Radar (APP) 128.975	*INNSBRUCK Tower 120.1
RNAV	Final Apch Crs 258°	RNP 0.15 DA(H) 2500' (606')
MISSED APCH: Climb to 11500' via RNAV missed approach track to RTT and hold.		
Missed apch procedure based on RNP 0.30.		
RNP AR Apch	Alt Set: hPa	Rwy Elev: 67 hPa
1. SPECIAL AIRCREW & AIRCRAFT AUTHORIZATION REQUIRED (refer to AIRPORT BRIEFING 10-1P pages). 2. Dual GNSS and at least one Inertial Reference Unit or equivalent required (DME/DME, LOC and VOR/DME updating not authorized). 3. For uncompensated Baro-VNAV systems, procedure NA below airport temperature -7°C.		
Trans alt: By ATC		

Applicable over Austrian territory only



STRAIGHT-IN LANDING RWY26	
RNP 0.15 DA(H) 2500' (606')	RNP 0.30 DA(H) 2670' (776')
RVR 1500m	RVR 1500m
RVR 2400m	RVR 2400m
A	ALS OUT
B	ALS OUT
C	ALS OUT
D	ALS OUT



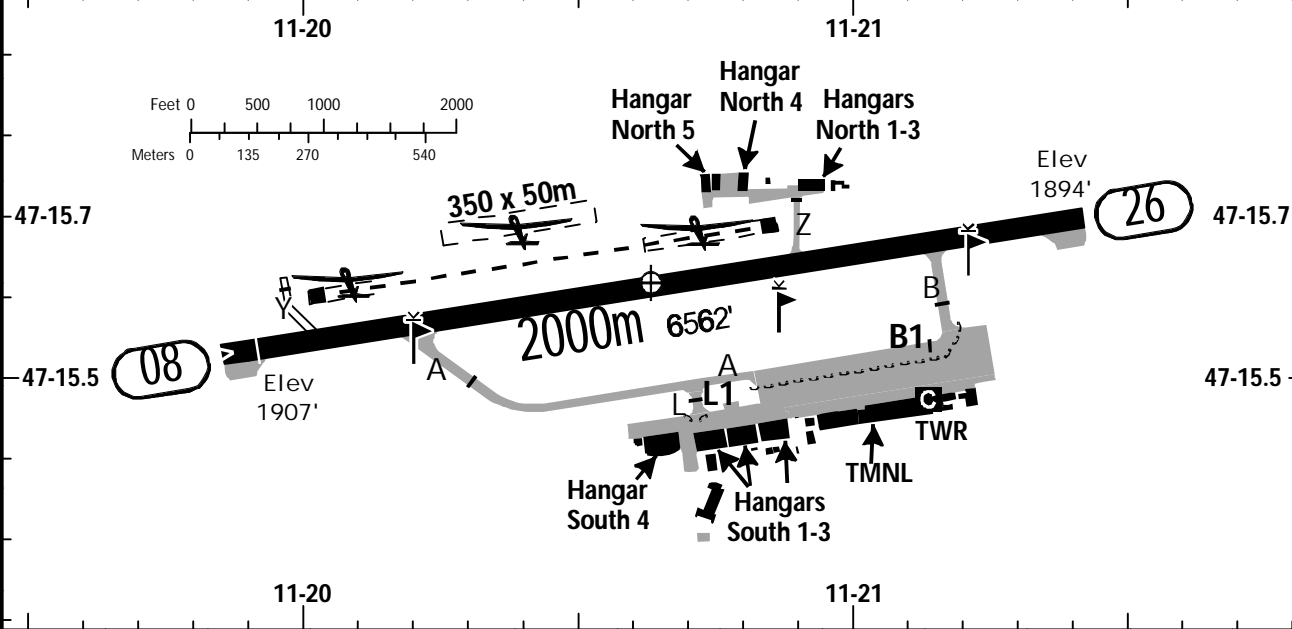


**LOWI  
INNSBRUCK**


**INNSBRUCK  
AUSTRIA**

15 OCT 21 **(19-2)**

<b>BRIEFING STRIP™</b>	<b>LOCATION</b> Elev 1907' /581m N47 15.6 E011 20.6	<b>ATIS</b> ATIS 126.030	<b>TOWER</b> INNSBRUCK TOWER 120.100 (ge, en)
	<b>ADMITTED AIRCRAFT</b> 		
			



ALS 26 - PAPI 08 (3.5°), 26 (3.5°) - THRL - RL - RCLL - TWYL (A, B) - APRON - WDI - OBSTL.

RWY No	Dimension (m) - Surface	TORA (m)	LDA (m)	Strength	Lights
08 (077°)	2000 x 45 Asphalt	2000	1940	PCN 75/F/A/W/T	
26 (257°)		1940			

**Intersection TKOF**

RWY	TWY	TORA (m)
08	Y	1806
	A	1586
	Z	671
26	B	1602
	Z	1282

CAUTION: Extreme caution should be exercised when flying in valleys due to numerous high tension lines and cableways.

Intense glider activity within TRAs LOWI L & LOWI C; other ACFT in opposite direction.

Also glider-, para- and hanglideractivity in the vicinity of entry points into CTR.

**NOTE: Emergency phone in case of COM Failure +43 (0) 5 1703-6612.**

**General**

For all flights within CTR/TMA LOWI a functioning transponder (Mode C) is strongly recommended.

Outside op hr of Innsbruck ATC contact Wien FIC for clearance.

Simultaneous flight operations on paved RWY 08/26 and winch launchings are not executed.

TWY Z to be used by ACFT up to 2t.

**Foehn Conditions**

During "Foehn" (surface wind 100°-180°, wind speed 15-25 KT, gusts 30 up to 50 KT) expect severe turbulence with horizontal wind shears and severe downdraughts at all altitudes. To avoid strong turbulence, it is recommended to execute APCH/DEP at high altitude and along the N side of the Inn valley.

Approaches from the E and the S should overfly the AD not below 5000'. On final for RWY 08 severe downdraughts have to be expected over the Inn river.

**Approach**

Altitudes along the routes are instructed by ATC.

Arrival routes terminate in a holding. For further approach wait for clearance, if not already cleared for approach or landing.

For entry via FOXTROT proceed via MIKE 3 into the holding pattern S of the AD and wait for further clearance unless an APCH, LDG or other clearance has been already received previously.

NORDO PPR by TEL TWR. The time of entry into the CTR shall be stated with the request. Do not exceed the indicated CTR entry time by more than 10 MIN, otherwise the clearance expires.

During "Foehn" conditions it is dissuaded to execute a NORDO approach.

**Radio Communication Failure**

Failure prior to CTR entry clearance: Do not enter! Divert



**LOWI**  
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02 APR 21

19-3

**INNSBRUCK**  
**AUSTRIA**

to an uncontrolled AD.

Failure after CTR entry clearance: Squawk A 7600 and continue as cleared.

If the clearance was issued only until holding MIKE 2, SIERRA, WHISKEY 2 or NOVEMBER 2 the pilot shall in case of holding:

- At MIKE 2 and SIERRA descend without delay to 3000' in compliance with the minimum flight altitude and proceed along the highway to a position S of Tower and await light signals.
- At WHISKEY 2 and NOVEMBER 2 descend without delay to 3000' in compliance with the minimum flight altitude and proceed along the mountainside in the northern part of the Inn valley (proceeding in direction AD on the left side of the Inn valley) to a position N of the AD and await light signals.

In case of radio communication failure after having received an entry clearance via HOTEL ACFT shall set the transponder to A7600 and without delay but in compliance with the minimum flight altitude descend to 3000' and proceed along the mountain slope in the northern part of the Inn Valley (proceeding in direction AD on the left side of the Inn Valley) to a position N of the AD and await light signals.

In case of radio communication failure after having received an entry clearance via FOXTROT ACFT shall set the transponder to A7600 and after MIKE 3 without delay but in compliance with the minimum flight altitude descend to 3000' and proceed along the high-way to a position S of TWR and await light signals.

CAUTION: Possible glider traffic N of the AD.

## Departure

During Foehn circumnavigate city of Innsbruck in the N because of severe downdraughts S of city.

DEP RWY 26

Unless otherwise instructed, after passing the Inn river turn right inbound to GOLF to join the cleared VFR route.

- DEP to SIERRA or BRENNER follow GOLF, INDIA, SIERRA and BRENNER;
- DEP to MIKE 1 follow GOLF, INDIA, MIKE 3, MIKE 2 and MIKE 1. The city Schwaz should be circumnavigated in the N between MIKE 2 and MIKE 1;
- DEP to FOXTROT follow GOLF, INDIA, MIKE 3 and FOXTROT;
- DEP to WHISKEY 1 follow GOLF, WHISKEY 2 and WHISKEY 1;
- DEP to NOVEMBER 2 or NOVEMBER 1 follow GOLF, NOVEMBER 2 and NOVEMBER 1;
- DEP to HOTEL follow GOLF on the N side of the valley to HOTEL.

DEP RWY 08

Unless otherwise instructed, after reaching a safe flight altitude turn right to join the cleared VFR route.

- DEP to SIERRA or BRENNER follow SIERRA and BRENNER;
- DEP to MIKE 1 follow MIKE 3, MIKE 2 and MIKE 1; The city Schwaz should be circumnavigated in the N

between MIKE 2 and MIKE 1;

- DEP to FOXTROT follow MIKE 3 and FOXTROT;
- DEP to WHISKEY 1 follow INDIA, WHISKEY 2 and WHISKEY 1;
- DEP to NOVEMBER 2 or NOVEMBER 1 follow INDIA, NOVEMBER 2 and NOVEMBER 1;
- DEP to HOTEL follow INDIA and HOTEL.

## Transit

Flights crossing or proceeding along the Inn valley in the area of CTR or TMA LOWI are subject to a clearance from INNSBRUCK RADAR or TOWER.

In the interest of safety also all other transit flights crossing the Inn valley outside the CTR or below the TMA LOWI should contact INNSBRUCK RADAR or TOWER.

Transit flights will normally be cleared directly to a published reporting point and thereafter along the published routes. Depending on traffic situation RADAR (TMA) or TOWER (CTR) may, however, advise deviations aloof from published VFR routes or give an approval to such requests from pilots, respectively (e.g. direct routes NOVEMBER 1 - BRENNER and vice versa, MIKE 1 - NOVEMBER 1 and vice versa etc.).

Transit flights within TMA LOWI without transponder have to expect delays.

NORDO transits not permitted.

## Noise Abatement

Flights shall proceed strictly along published routes as far as ATC instructions do not require other routes.

To minimise noise, VFR flights with single piston engine ACFT (up to 5.7t MTOW) shall preferably land on RWY 08 and take off from RWY 26.

Between 1230-1400LT (Mon-Sat) or 1230-1500LT (Sun & Hol) and on 01 NOV no local/aero-tow/parajumping/instruction/training FLTs.

Departures avoid built-up areas of city and the hospital; if possible proceed S of city along the highway.

## TRA LOWI L and TRA LOWI C

Initiation of glider operation in Innsbruck is subject to approval from the aerodrome operator. Prior entering TRA LOWI C approval from TWR has to be received.

Glider towing is permitted only with radio communication and using the paved RWY.

TRA LOWI L is available only for DEP and LDG at the glider site Innsbruck. The local procedures and regulations have to be strictly observed.

As long as the activation of TRA LOWI C is transmitted via ATIS no separate approval by Innsbruck TWR for entering, leaving or crossing of TRA LOWI C is necessary.

## Hang- and Paragliding

Hang- and paragliding within CTR LOWI is not permitted.

## Parachute Jumping

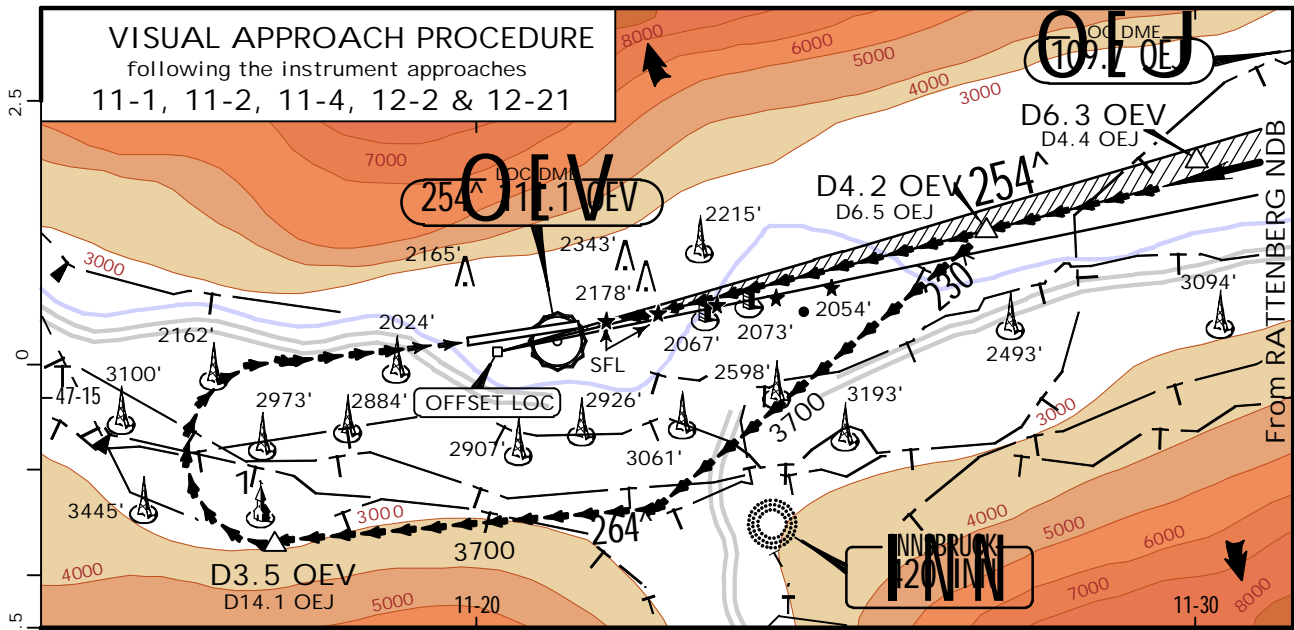
Initiation of parachute jumping operation on the premises of Innsbruck airport is subject to approval from the aerodrome operator.

**LOWI/INN**  
Apt Elev 1907'

**JEPPESEN**  
6 AUG 21 (19-10) .Eff.12.Aug.

**INNSBRUCK, AUSTRIA**  
INNSBRUCK

**SPECIAL CIRCLING PROCEDURES**



**VISUAL APPROACH PROCEDURE**  
following the instrument approaches  
11-1, 11-2, 11-4, 12-2 & 12-21

**VISUAL APCH AFTER 11-1:**

Having established effective external VISUAL reference between D6.3 OEV/D4.4 OEV and MAP the flight shall be continued with visual reference either straight-in to RWY 26 (distance depending on MAP versus missed apch climb performance) or on to a Right-hand circuit to RWY 08.  
The prescribed minimum flight visibility shall be observed during the visual part of the procedure.

**VISUAL APCH AFTER 11-2:**

Having established effective external VISUAL reference (between D6.3 OEV/D4.4 OEV and MAP) the flight shall be continued with visual reference either straight-in to RWY 26 or on to a Right-hand circuit to RWY 08.

↑ Visual Cue: Church Axams for start of Right base.

**.Standard.**

**CIRCLE-TO-LAND**  
WITH PRESCRIBED FLIGHT TRACKS  
After apch 11-1

Missed apch climb gradient mim	5.0%	4.0%	3.0%	2.5%
MDA(H)	3700' (1793')	3700' (1793')	4400' (2493')	4900' (2993')
FLIGHT VISIBILITY				

- A
- B
- C
- D

5000m

**.Standard.**

**CIRCLE-TO-LAND**  
WITH PRESCRIBED FLIGHT TRACKS  
After apch 12-2

Missed apch climb gradient mim	7.1%	5.0%	2.5%	After apch 11-2 & 12-21
MDA(H)	3700' (1793')	3900' (1993')	4300' (2393')	MDA(H) 3700' (1793')
FLIGHT VISIBILITY				

- A
- B
- C
- D

3000m

5000m

NOT APPLICABLE

5000m

**.Standard.**

**CIRCLE-TO-LAND**  
WITH PRESCRIBED FLIGHT TRACKS  
After apch 11-4

Missed apch climb gradient mim	5.0%	4.0%	3.0%	2.5%
MDA(H)	3700' (1793')	3700' (1793')	4400' (2493')	4900' (2993')
FLIGHT VISIBILITY				

- A
- B
- C
- D

3000m

5000m

NOT APPLICABLE

For ground visibility & ceiling requirement see 10-1P pages.  
For SPECIAL NOTES see 10-1P pages.

PANS OPS

