ETHL AD 2.1 Aerodrome Location Indicator and Name

ETHL – LAUPHEIM

ETHL AD 2.2 Aerodrome Geographical and Administrative Data

1	ARP coordinates and site at AD	48°13.2065'N 009°54.6125'E Centre of RWY
2	Direction and distance from (city)	1.3 NM 110° from Laupheim
3	Elevation/Reference temperature	1766 ft (538 m) 22.6 °C
4	Geoid undulation at AD ELEV PSN	NIL
5	MAG VAR/Annual change	2.7°E (2018)/0.12°E
6	AD Administration Address Telephone Telefax AFS E-mail	GERMAN AIR FORCE Hubschraubergeschwader 64 Flugbetriebsstaffel Kurt-Georg-Kiesinger Kaserne 88462 Laupheim GERMANY +49 7392 9797-2451/2872 FspNBw 5936-2451/2872 +49 7392 9797-2897 FspNBw 5936-2897 ETHLZPZX FlugberatungLaupheim@bundeswehr.org
7	Types of traffic permitted (IFR/VFR)	IFR / VFR
8	Remarks	NIL

LAUPHEIM

ETHL AD 2.3 Operational Hours

1	Aerodrome operator	MON-THU 0700-1600++ FRI 0700-1100++ CLSD HOL
2	Customs and immigration	Not available
3	Health and sanitation	HO
4	AIS Briefing Office	HO
5	ATS Reporting Office (ARO)	HO
6	MET Briefing Office	HO
7	ATS	HO
8	Fuelling	HO, see AD 2.4 Handling Services and Facilities
9	Handling	HO
10	Security	H24
11	De-icing	Not available
12	Remarks	PPR via AFS, Fax or E-mail.

ETHL AD 2.4 Handling Services and Facilities

1	Cargo-handling facilities	Fork-lift
2	Fuel/oil types	F-34, H-515, O-133, O-147, O-156
3	Fuelling facilities/capacity	Rapid refuelling with intercom only.
4	De-icing facilities	Not available
5	Hangar space for visiting aircraft	O/R
6	Repair facilities for visiting aircraft	H53
7	Oxygen	Not available
8	Aircraft starting units	Not available
9	Remarks	Requests for cross-servicing via AFS, Fax or E-mail

ETHL AD 2.5 Passenger Facilities

1	Hotels	O/R
2	Restaurants	In Laupheim
3	Transportation	Taxi
4	Medical facilities	Dispensary, 3 ambulances
5	Bank and Post Office	In Laupheim
6	Tourist Office	NIL
7	Remarks	Requests for accommodation via AFS, Fax or E-mail

ETHL AD 2.6 Rescue and Fire Fighting Services

1	AD category for fire fighting	Cat 7
2	Rescue equipment	2 airport crash tender, 1 fire engine, 1 rescue vehicle
3	Capability for removal of disabled aircraft	3 cranes
4	Remarks	NIL

ETHL AD 2.7 Seasonal Availability – Clearing

1	Types of clearing equipment	Available
2	Clearance priorities	Aprons-RWY
3	Remarks	All year round usable, information on snow clearance published by SNOWTAM.

ETHL AD 2.8 Aprons, Taxiways and Check Locations/Positions Data

1	Apron surface and strength	SOUTH OF RWY Concrete and asphalt, LCN 30
2	Taxiway width, surface and strength	A, B, C, E: 12 m, concrete and asphalt, LCN 30 D: 15 m, concrete and asphalt, LCN 30 E between D and C: 15m, concrete and asphalt, LCN 30
3	Altimeter checkpoint location and elevation	Not available
4	VOR checkpoints	Not available
5	INS checkpoints	P1: 48°13.15'N 009°54.45'E P2: 48°13.14'N 009°54.73'E P3: 48°13.13'N 009°55.22'E
6	Remarks	NIL

ETHL AD 2.9 Surface Movement Guidance and Control System and Markings

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	NIL
2	RWY and TWY markings and LGT	RWY designator, -centre line, TWY centre line, threshold.
3	Stop bars	NIL
4	Remarks	NIL

ETHL AD 2.10 Aerodrome Obstacles

See AD 2 ETHL 2 - 1 AERODROME CHART

ETHL AD 2.11 Meteorological Information Provided

1	Associated MET Office	Laupheim
2	Hours of service MET Office outside hours	MON-THU 0400-1600++ FRI 0400-1100++ AND HO, CLSD HOL Air Operations Command Geoinformation Centre Air Force TEL: +49 251 936-4792, FspNBw 3323-4792
3	Office responsible for TAF preparation Periods of validity	Laupheim See GEN 3.5 para 4.7
4	Trend forecast Interval of issuance	METAR Hourly
5	Briefing/consultation provided	General weather briefing, weather briefing verbal and by phone.
6	Flight documentation Language(s) used	 German/English
7	Charts and other information available for briefing or consultation	Chart Display, additional charts on request.
8	Supplementary equipment available for providing information	Data display
9	ATS units provided with information	TWR, RADAR, MILAIM
10	Additional information (limitation of service, etc.)	Telephone: +49 7392 9797 2910 FspNBw 5936 2910 Telefax: +49 7392 9797 2999 FspNBw 5936 2999

ETHL AD 2.12 Runway Physical Characteristics

RWY Designator	True BRG	Dimensions of RWY (m)	Strength (PCN) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
09	092.87°	1648 x 30	LCN 30 Bitumen	48°13.22873'N 009°53.94798'E	THR 1760.8 ft TDZ 1763.1 ft
27	272.88°	1648 x 30		48°13.18412'N 009°55.27675'E	THR 1765.8 ft TDZ 1766.3 ft
03	033.76°	600 x 50	Grass	48°13.26772'N 009°54.24470'E	THR 1764.6 ft
21	213.77°	600 x 50		48°13.53683'N 009°54.51397'E	THR 1758.6 ft

Slope of RWY-SWY	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
7	8	9	10	11	12
0.2% / 0.0% 823 m / 824 m	Not available	Not available	1768 x 300	NIL	NIL
0.0% / -0.2% 824 m / 823 m	Not available	Not available	1768 x 300		

ETHL AD 2.13 Declared Distances

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
09	1648	1648	1648	1648	NIL
27	1648	1648	1648	1648	NIL

ETHL AD 2.14 Approach and Runway Lighting

RWY Designator	APCH LGT type length INTST	THR LGT colour WBAR	VASIS (MEHT) PAPI	TDZ LGT length	RWY Centre Line LGT length spacing colour INTST	RWY Edge LGT length spacing colour INTST	RWY End LGT colour WBAR	SWY LGT length colour	Remarks
1	2	3	4	5	6	7	8	9	10
09	Not available	Available	VASIS 3.0°	Not available	Not available	White LIH	Red LIH	Not available	NIL
27	Modified NATO-standard White 600 m LIH AFLS	Available	VASIS 3.0°	Not available	Not available	White LIH	Red LIH	Not available	NIL

ETHL AD 2.15 Other Lighting, Secondary Power Supply

1	ABN/IBN location, characteristics and hours of operation	ABN: white / green, on TWR
2	LDI location and LGT Anemometer location and LGT	LDI: 1. Landing T not available 2. Two-Digit-Display at west and east side of tower building, lighted Anemometer: 48°13.31'N 009°54.04'E, lighted
3	TWY edge and centre line lighting	Blue, LIL
4	Secondary power supply/switch-over time	Available
5	Remarks	Obstruction marking and lighting available.

ETHL AD 2.16 Helicopter Landing Area

1	Coordinates TLOF or THR of FATO Geoid undulation	Not available
2	TLOF and/or FATO elevation	NIL
3	TLOF and FATO area dimensions, surface, strength, marking	NIL
4	True BRG of FATO	NIL
5	Declared distance available	NIL
6	APP and FATO lighting	NIL
7	Remarks	Grass lane south of RWY, see AD 2 ETHL 2 - 1, AERODROME CHART.

ETHL AD 2.17 ATS Airspace

1	Designation and lateral limits	LAUPHEIM CTR, see AIP Germany ENR 2.1
2	Vertical limits	GND-3500 ft MSL
3	Airspace classification	D
4	ATS unit call sign Language(s)	LIMA TOWER German, English
5	Transition altitude	5000 ft MSL
6	Remarks	NIL

ETHL AD 2.18 ATS Communication Facilities

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
		243.000 MHz	HO	Emergency frequencies for all services
		121.500 MHz	HO	
RADAR	LIMA RADAR	371.800 MHz	HO	SSR Mode Codes
		123.300 MHz	HO	3/A 4250 - 4257
		120.450 MHz	HO	
		281.350 MHz	HO	
		138.450 MHz	HX	
		143.350 MHz	HX	
TWR	LIMA TOWER	376.100 MHz	HO	
		257.800 MHz	HO	
		122.100 MHz	HO	
		138.750 MHz	HX	
		46.900 MHz	HX	A/G

ETHL AD 2.19 Radio Navigation and Landing Aids

Type of aid MAG VAR, Type of supported OPS (for VOR/ILS/ MLS give declination)	ID	Frequency	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
NDB (3°E/2018)	LUP	407.000 kHz	H24	48°13.0944'N 009°54.6828'E		157°(T), 0.12 NM from ARP. Designated operational range: 20 NM.

ETHL AD 2.20 Örtliche Besonderheiten

1. Segelflugbetrieb SAT, SUN und HOL von SR-SS bis zu 5000 ft MSL im Umkreis von 5 NM um den ARP.
2. Modellflugzeugbetrieb in der Kontrollzone bis zu 500 ft AGL im Umkreis von 0.5 NM um folgende Positionen:

   48°14.10′N 009°56.94′E
   48°10.20′N 009°55.94′E
   48°11.45′N 009°50.04′E
   48°13.65′N 010°02.14′E
3. Übungsflüge von Luftfahrzeugen im Durchgangsverkehr sind von 1100-1300++ verboten.
4. Graben westlich und parallel zu den Pisten 03/21.
5. Graspiste 03/21 O/R; nur für Leichtflugzeuge.
6. Einrollen und Verlassen der Pisten 03/21 für Starrflügler nur über die verlängerte Anfluglinie Piste 03.

ETHL AD 2.20 Local Traffic Regulations

1. Glider flying SAT, SUN and HOL SR-SS up to 5000 ft MSL, radius 5 NM of ARP.
2. Model flying within CTR up to 500 ft AGL radius 0.5 NM of following positions:

   48°14.10′N 009°56.94′E
   48°10.20′N 009°55.94′E
   48°11.45′N 009°50.04′E
   48°13.65′N 010°02.14′E
3. Practice approaches of transient aircraft are prohibited from 1100-1300++.
4. Trench west of and parallel to RWY 03/21.
5. Grass RWY 03/21 O/R; for light aircraft only.
6. Enter and leave RWY 03/21 for fixed-wing aircraft via extended centre line RWY 03 only.

ETHL AD 2.21 Verfahren zur Lärmvermeidung

NIL

ETHL AD 2.21 Noise Abatement Procedures

NIL

ETHL AD 2.22 Flugverfahren

1. IFR-Verfahren

   Die Instrumentenanflug- und Instrumentenabflugverfahren wurden gemäß den auf der jeweiligen Verfahrensseite angegebenen Kriterien erstellt.

2. LVTO-Verfahren

   LVTO-Verfahren am Militärflugplatz Laupheim sind gemäß Leiter Flugbetrieb/Kommandeur Fliegende Gruppe HSG 64 bis zum Minimalwert 0 nur für VLF HSG 64 erlaubt. Im Rahmen der LVTO-Verfahren kann die Pistensichtweite auch durch den VLF eines startbereiten Luftfahrzeuges auf der Piste festgestellt werden. Sie wird per Funk an die zuständige Platzkontrollstelle übermittelt und gilt dann für den bevorstehenden Start.

   Für platzfremde Lfz gilt grundsätzlich Startminimum = Landeminimum, davon abweichend kann militärischen Lfz ein Start bei einer RVR von 400 m oder mehr genehmigt werden. Hierbei gilt grundsätzlich der gemessene Wert zum Zeitpunkt des Startvorhabens.

   Für Lfz der örtlichen Sportfluggruppe ist ein IFR-Start ab einer gemessenen RVR von 800 m zulässig. Zusätzlich muss die gemessene Hauptwolkenuntergrenze des zum geplanten Start anwendbaren Landeminimums gegeben sein.

ETHL AD 2.22 Flight Procedures

1. IFR procedures

   The instrument approach and departure procedures are established in accordance with the criteria stated on the individual procedure chart.

2. LVTO procedures

   According to the chief aviation officer/commander of Flying Group HSG 64, LVTO procedures at Laupheim Air Base are only admissible down to the minimum value of 0 for pilots in command of HSG 64. Within the framework of LVTO procedures, the runway visual range may be determined on the runway by the pilot in command of an aircraft ready for take-off. It is radioed to the competent aerodrome control tower and will then be applicable to the impending take-off.

   For aircraft in transit, the take-off minimum is on principle equal to the landing minimum. Irrespective of this rule, military aircraft may be cleared for take-off if the RVR reaches or exceeds a value of 400 m. In these cases, the applicable value is on principle that which is measured at the time of intended take-off.

   Aircraft of the local sports flying group may perform IFR take-offs if the measured RVR reaches or exceeds 800 m. In addition, the measured ceiling must correspond to the landing minimum applicable to the intended take-off.

ETHL AD 2.23 Zusätzliche Informationen

NIL

ETHL AD 2.23 Additional Information

NIL

ETHL AD 2.24 Charts related to an Aerodrome

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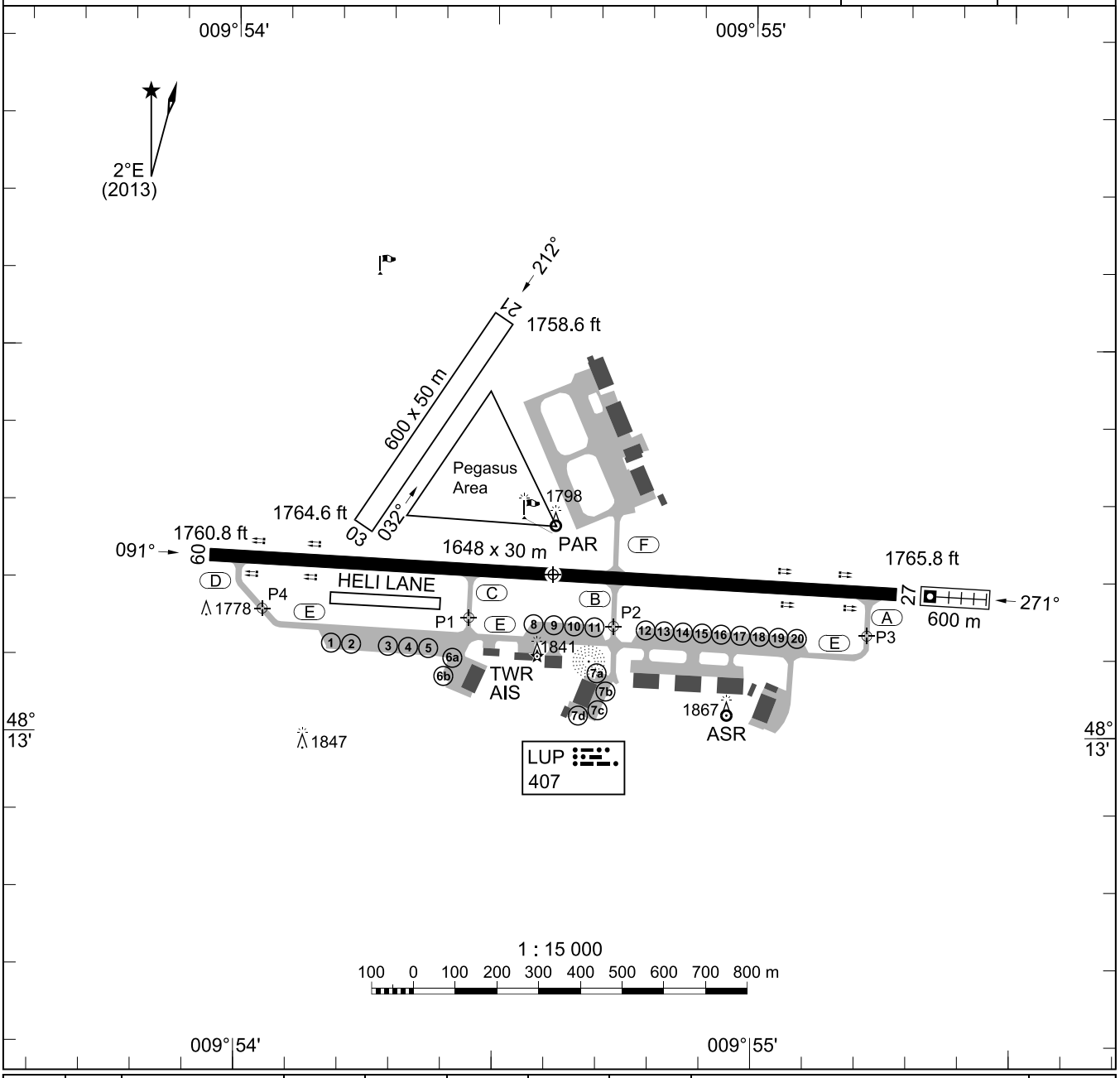
AERODROME CHART LAUPHEIM

ARP: 48°13.2065'N 009°54.6125'E

AD ELEV: 1766 ft



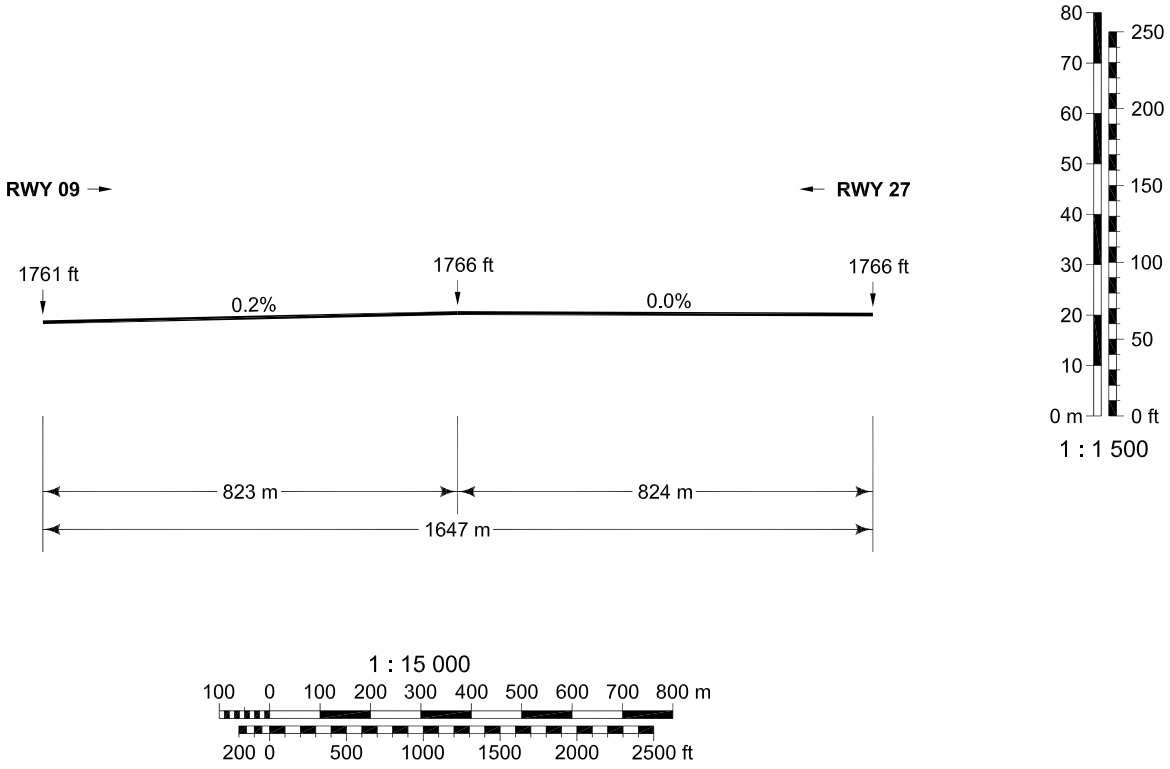
RWY	MAG BRG	LCN	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	VASIS	THR COORDINATES		TDZE (ft)
09	091°	30	1648	1648	1648	1648	3.0°	48°13.22873'N	009°53.94798'E	1763.1
27	271°	30	1648	1648	1648	1648	3.0°	48°13.18412'N	009°55.27675'E	1766.3
03	032°	Grass						48°13.26772'N	009°54.24470'E	
21	212°	Grass						48°13.53683'N	009°54.51397'E	

INS POSITIONS:

P1	48°13.15'N	009°54.45'E
P2	48°13.14'N	009°54.73'E
P3	48°13.13'N	009°55.22'E
P4	48°13.16'N	009°54.05'E

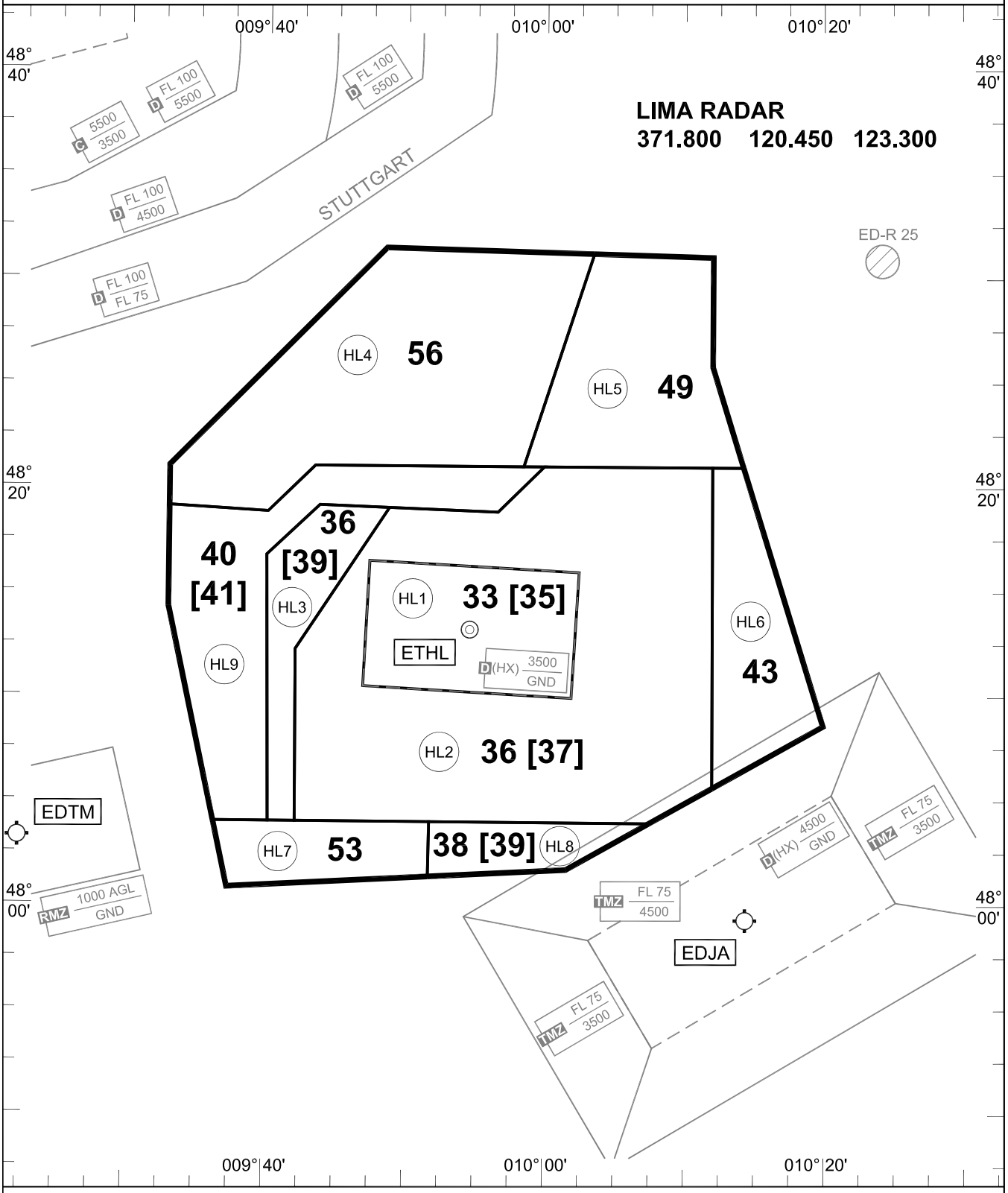
CHANGE: NEW PRINT

LONGITUDINAL PROFILES OF RUNWAYS AND STOPWAYS — LAUPHEIM



CHANGE: NEW CHART

MINIMUM VECTORING ALTITUDES (MVA) — LAUPHEIM



The MVA is the lowest altitude which may be used for radar vectors for IFR flights, taking into account the minimum safe height (1000 ft above the highest obstacle within a radius of 8 km) and airspace structure (lower limit of the controlled airspace plus a buffer of 500 ft).
Below the MVA, IFR flights will normally be cleared on published IFR procedures only.

Altitudes in 100 ft-units (50 = 5000 ft).

Values in brackets consider additional height margins in order to meet required obstacles clearance at cold temperatures.
These raised MVA values are generally valid for the time period between AIRAC date NOV and AIRAC date MAR.

CHANGE: NEW CHART NAME

LIST OF COORDINATES FOR MVA — LAUPHEIM

HL1	48°09.95'N	010°01.90'E
	48°10.48'N	009°46.98'E
	48°16.48'N	009°47.42'E
	48°15.97'N	010°02.43'E
	48°09.95'N	010°01.90'E
HL2	48°21.02'N	009°59.90'E
	48°21.00'N	010°11.98'E
	48°05.66'N	010°12.00'E
	48°03.96'N	010°07.49'E
	48°04.00'N	009°51.78'E
	48°04.00'N	009°42.18'E
	48°12.23'N	009°42.12'E
	48°19.02'N	009°48.80'E
	48°18.84'N	009°56.59'E
	48°21.02'N	009°59.90'E
HL3	48°19.14'N	009°43.81'E
	48°19.02'N	009°48.80'E
	48°12.23'N	009°42.12'E
	48°04.00'N	009°42.18'E
	48°04.00'N	009°40.25'E
	48°16.74'N	009°40.02'E
	48°19.14'N	009°43.81'E
HL4	48°31.47'N	009°48.48'E
	48°31.22'N	010°03.41'E
	48°21.02'N	009°58.42'E
	48°21.02'N	009°43.46'E
	48°18.82'N	009°40.09'E
	48°19.08'N	009°33.00'E
	48°21.00'N	009°33.00'E
	48°31.47'N	009°48.48'E
HL5	48°31.22'N	010°03.41'E
	48°31.07'N	010°12.00'E
	48°25.82'N	010°11.98'E
	48°21.00'N	010°14.22'E
	48°21.02'N	009°58.42'E
	48°31.22'N	010°03.41'E
HL6	48°21.00'N	010°11.98'E
	48°21.00'N	010°14.22'E
	48°08.63'N	010°19.93'E
	48°05.66'N	010°12.00'E
	48°21.00'N	010°11.98'E
HL7	48°01.38'N	009°51.73'E
	48°00.83'N	009°37.37'E
	48°04.00'N	009°36.34'E
	48°04.00'N	009°51.78'E
	48°01.38'N	009°51.73'E
HL8	48°04.00'N	009°51.78'E
	48°03.96'N	010°07.49'E
	48°01.73'N	010°01.58'E
	48°01.38'N	009°51.73'E
	48°04.00'N	009°51.78'E
HL9	48°19.08'N	009°33.00'E
	48°18.82'N	009°40.09'E
	48°21.02'N	009°43.46'E
	48°21.02'N	009°59.90'E
	48°18.84'N	009°56.59'E
	48°19.14'N	009°43.81'E
	48°16.74'N	009°40.02'E
	48°04.00'N	009°40.25'E
	48°04.00'N	009°36.34'E
	48°14.25'N	009°33.00'E
	48°19.08'N	009°33.00'E

CHANGE: NEW CHART NAME