

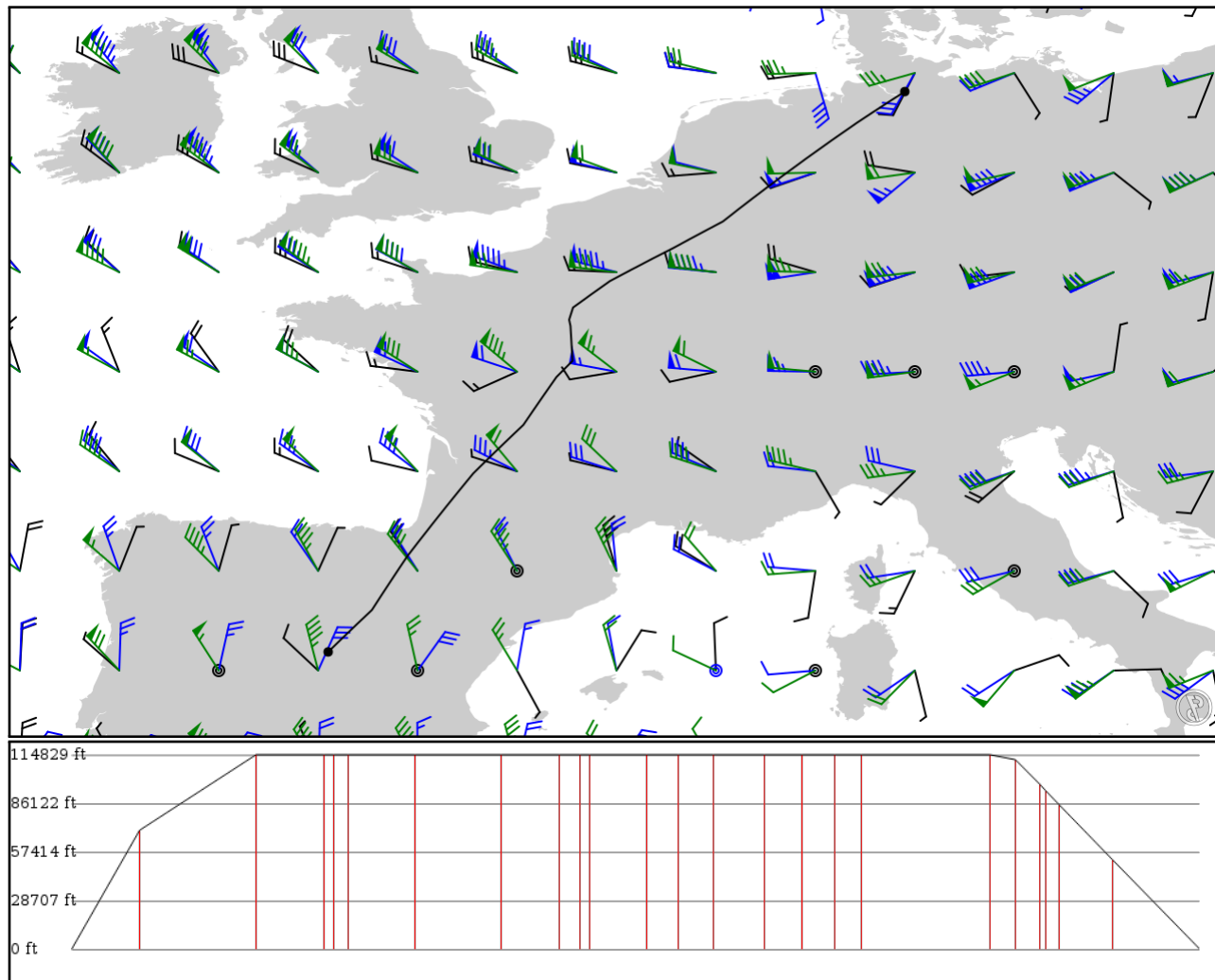
EDDH
Hamburg

LEMD
Barajas

2024/05/29 0052Z

EDDH GULMI **UZ707** RESMI **UN857** DEPOM **G54** CTX **G28** LMG **UN857** VELIN **R10** SAU **UN857** BEGUY **R299** PPN **R10**
HERMI LEMD

981.27 nm / 1817.31 km



Notes

Basic altitude profile:

- Ascent Rate: 1500ft/min
- Ascent Speed: 250kts
- Cruise Altitude: 31000ft
- Cruise Speed: 420kts
- Descent Rate: 1500ft/min
- Descent Speed: 180kts

Options:

- Use NATs: yes
- Use PACOTS: yes
- Use low airways: yes

- Use high airways: yes

Route

| Ident Type | Via | Lat Lon | Alt | Dist (nm) | Name |
|---------------|--------|------------|-----------|--------------|---------------------------|
| EDDH | - | 53.63367 | 0 ft | - | Hamburg |
| APT | - | 9.98524 | 0 m | | |
| GULMI | - | 52.89750 | 21,400 ft | 60 | - |
| FIX | - | 8.85333 | 6,523 m | | |
| KOMOT | UZ707 | 51.62861 | 35,000 ft | 100 | - |
| FIX | AWY-HI | 7.07417 | 10,668 m | | |
| AKUXO | UZ707 | 50.87139 | 35,000 ft | 58 | - |
| FIX | AWY-HI | 6.07444 | 10,668 m | | |
| ULPEN | UZ707 | 50.75556 | 35,000 ft | 8 | - |
| FIX | AWY-HI | 5.92750 | 10,668 m | | |
| LNO | UZ707 | 50.58583 | 35,000 ft | 13 | OLNO VOR-DME |
| VOR | AWY-HI | 5.71028 | 10,668 m | | |
| FAMEN | UZ707 | 49.97500 | 35,000 ft | 57 | - |
| FIX | AWY-HI | 4.56667 | 10,668 m | | |
| BSN | UZ707 | 49.18831 | 35,000 ft | 75 | BOURSONNE VOR-DME |
| VOR | AWY-HI | 3.05647 | 10,668 m | | |
| RESMI | UZ707 | 48.56861 | 35,000 ft | 50 | - |
| FIX | AWY-HI | 2.19194 | 10,668 m | | |
| DEKOD | UN857 | 48.28333 | 35,000 ft | 17 | - |
| FIX | AWY-HI | 2.10000 | 10,668 m | | |
| DISAK | UN857 | 48.13333 | 35,000 ft | 9 | - |
| FIX | AWY-HI | 2.13167 | 10,668 m | | |
| DEPOM | UN857 | 47.31778 | 35,000 ft | 49 | - |
| FIX | AWY-HI | 2.17917 | 10,668 m | | |
| CTX | G54 | 46.93661 | 35,000 ft | 27 | CHATEAUROUX NDB |
| NDB | AWY-LO | 1.80114 | 10,668 m | | |
| GUSON | G28 | 46.47417 | 35,000 ft | 30 | - |
| FIX | AWY-LO | 1.47778 | 10,668 m | | |
| LMG | G28 | 45.81592 | 35,000 ft | 43 | LIMOGES VOR-DME |
| VOR | AWY-LO | 1.02558 | 10,668 m | | |
| SOMIG | UN857 | 45.37500 | 35,000 ft | 32 | - |
| FIX | AWY-HI | 0.56250 | 10,668 m | | |
| VELIN | UN857 | 44.98000 | 35,000 ft | 29 | - |
| FIX | AWY-HI | 0.15556 | 10,668 m | | |
| SAU | R10 | 44.67681 | 35,000 ft | 22 | SAUVETERRE DE GUYENNE VOR |
| VOR | AWY-LO | -0.15292 | 10,668 m | | |
| BEGUY | UN857 | 43.05833 | 35,000 ft | 112 | - |
| FIX | AWY-HI | -1.45083 | 10,668 m | | |
| PPN | R299 | 42.73375 | 34,100 ft | 22 | PAMPLONA VOR-DME |
| VOR | AWY-LO | -1.70200 | 10,394 m | | |
| NOLSA | R10 | 42.42762 | 29,700 ft | 20 | - |
| FIX | AWY-LO | -1.90741 | 9,053 m | | |
| ALEPO | R10 | 42.34368 | 28,500 ft | 5 | - |
| FIX | AWY-LO | -1.96333 | 8,687 m | | |
| GARVU | R10 | 42.17104 | 26,000 ft | 11 | - |
| FIX | AWY-LO | -2.07781 | 7,925 m | | |
| HERMI | R10 | 41.47354 | 16,100 ft | 46 | - |
| FIX | AWY-LO | -2.53329 | 4,907 m | | |
| LEMD | - | 40.49045 | 0 ft | 75 | Barajas |
| APT | - | -3.56061 | 0 m | | |

EDDH

Region: GERMANY - CIVIL
Timezone: EUROPE/BERLIN
Runways: 2

Elevation: 53 ft / 16 m
Location: 53.633700 9.985260
Magnetic Var: 3.698 E

METAR

EDDH 290020Z AUTO 14008KT CAVOK 13/10 Q1013 NOSIG

TAF

TAF EDDH 282300Z 2900/3006 14008KT 9999 BKN040 TEMPO 2904/2911 4000 RA BKN012 PROB30 TEMPO 2907/2909 BKN008 BECMG

Frequencies

| | |
|-------------------------------------|----------------------------------|
| REC - 123.12 MHz - EDDH ATIS | GND - 121.80 MHz - HAMBURG GND |
| GND - 121.70 MHz - HAMBURG APRON | GND - 121.97 MHz - HAMBURG APRON |
| TWR - 121.27 MHz - HAMBURG TWR | TWR - 126.85 MHz - HAMBURG TWR |
| APP - 118.20 MHz - HAMBURG DIRECTOR | APP - 124.62 MHz - HAMBURG APP |
| APP - 134.25 MHz - BREMEN RADAR | APP - 136.67 MHz - BREMEN RADAR |

Runways

| Ident | Width | Length | Bearing (true) (mag) | Surface | Threshold Offset | Overrun Length |
|-------|--------|-----------|-------------------------|---------|---------------------|-------------------|
| 05 | 151 ft | 10,647 ft | 50.18 | ASPHALT | 978 ft | 194 ft |
| | 46 m | 3,245 m | 46.49 | | 298 m | 59 m |
| 23 | 151 ft | 10,647 ft | 230.22 | ASPHALT | 509 ft | 239 ft |
| | 46 m | 3,245 m | 226.52 | | 155 m | 73 m |
| 15 | 151 ft | 12,013 ft | 152.89 | ASPHALT | 0 ft | 194 ft |
| | 46 m | 3,662 m | 149.19 | | 0 m | 59 m |
| 33 | 151 ft | 12,013 ft | 332.91 | ASPHALT | 1,463 ft | 164 ft |
| | 46 m | 3,662 m | 329.21 | | 446 m | 50 m |

Approach Nav aids

| Runway | Type | Ident | Frequency | Range | Bearing (true) (mag) | Slope | Elevation |
|--------|---------|-------|------------|-------|-------------------------|-------|-----------|
| 05 | LOC-ILS | IHHE | 110.50 MHz | 18 nm | 50.21 | - | 53 ft |
| | | | | 33 km | 46.51 | | 53 m |
| 15 | LOC-ILS | IHHS | 109.55 MHz | 18 nm | 152.91 | - | 53 ft |
| | | | | 33 km | 149.21 | | 53 m |
| 23 | LOC-ILS | IHHW | 111.50 MHz | 18 nm | 230.21 | - | 53 ft |
| | | | | 33 km | 226.51 | | 53 m |
| 33 | LOC-LOC | IHHN | 109.90 MHz | 18 nm | 332.91 | - | 53 ft |
| | | | | 33 km | 329.21 | | 53 m |
| 05 | GS | IHHE | 110.50 MHz | 10 nm | 50.21 | 3.00 | 53 ft |
| | | | | 19 km | 46.51 | | 53 m |
| 15 | GS | IHHS | 109.55 MHz | 10 nm | 152.91 | 3.00 | 53 ft |
| | | | | 19 km | 149.21 | | 53 m |
| 23 | GS | IHHW | 111.50 MHz | 10 nm | 230.21 | 3.00 | 53 ft |
| | | | | 19 km | 226.51 | | 53 m |
| 33 | GS | IHHN | 109.90 MHz | 10 nm | 332.91 | 3.00 | 53 ft |
| | | | | 19 km | 329.21 | | 53 m |

LEMD

Region: SPAIN
Timezone: EUROPE/MADRID
Runways: 4

Elevation: 1,998 ft / 609 m
Location: 40.495300 -3.560200
Magnetic Var: 0.084 E

METAR

LEMD 290030Z VRB02KT CAVOK 21/08 Q1018 NOSIG

TAF

TAF LEMD 282300Z 2900/3006 03009KT CAVOK TX33/2915Z TN17/2906Z BECMG 2905/2908 VRB04KT BECMG 2917/2920 04009KT PR

Frequencies

| | |
|---------------------------------------|---------------------------------------|
| REC - 130.85 MHz - ATIS DEPARTURE | REC - 118.25 MHz - ATIS ARRIVAL |
| TWR - 120.65 MHz - BARAJAS TOWER | TWR - 120.15 MHz - BARAJAS TOWER |
| TWR - 119.50 MHz - BARAJAS TOWER | TWR - 118.15 MHz - BARAJAS TOWER |
| GND - 121.75 MHz - BARAJAS GROUND | GND - 123.15 MHz - BARAJAS GROUND |
| GND - 121.70 MHz - BARAJAS APRON | GND - 123.25 MHz - BARAJAS APRON |
| GND - 121.85 MHz - BARAJAS APRON | GND - 123.00 MHz - BARAJAS APRON |
| CLD - 130.35 MHz - CLEARANCE DELIVERY | CLD - 130.00 MHz - CLEARANCE DELIVERY |
| APP - 127.50 MHz - MADRID APPROACH | APP - 136.10 MHz - MADRID APPROACH |
| APP - 134.00 MHz - MADRID APPROACH | APP - 130.80 MHz - MADRID APPROACH |
| APP - 127.10 MHz - MADRID APPROACH | APP - 124.00 MHz - MADRID APPROACH |
| APP - 118.75 MHz - MADRID APPROACH | APP - 118.40 MHz - MADRID APPROACH |
| DEP - 131.17 MHz - MADRID DEPARTURE | DEP - 124.22 MHz - MADRID DEPARTURE |
| APP - 134.95 MHz - MADRID DIRECT | APP - 128.70 MHz - MADRID DIRECT |

Runways

| Ident | Width | Length | Bearing (true) (mag) | Surface | Threshold Offset | Overrun Length |
|-------|--------|-----------|-------------------------|---------|---------------------|-------------------|
| 14R | 197 ft | 13,097 ft | 142.31 | ASPHALT | 0 ft | 0 ft |
| | 60 m | 3,992 m | 142.22 | | 0 m | 0 m |
| 32L | 197 ft | 13,097 ft | 322.32 | ASPHALT | 3,041 ft | 0 ft |
| | 60 m | 3,992 m | 322.24 | | 927 m | 0 m |
| 18R | 197 ft | 13,723 ft | 179.75 | ASPHALT | 2,644 ft | 0 ft |
| | 60 m | 4,183 m | 179.67 | | 806 m | 0 m |
| 36L | 197 ft | 13,723 ft | 359.75 | ASPHALT | 0 ft | 0 ft |
| | 60 m | 4,183 m | 359.67 | | 0 m | 0 m |
| 14L | 197 ft | 11,494 ft | 142.31 | ASPHALT | 0 ft | 0 ft |
| | 60 m | 3,504 m | 142.23 | | 0 m | 0 m |
| 32R | 197 ft | 11,494 ft | 322.33 | ASPHALT | 1,627 ft | 0 ft |
| | 60 m | 3,504 m | 322.25 | | 496 m | 0 m |
| 18L | 197 ft | 11,494 ft | 179.76 | ASPHALT | 1,621 ft | 0 ft |
| | 60 m | 3,503 m | 179.68 | | 494 m | 0 m |
| 36R | 197 ft | 11,494 ft | 359.76 | ASPHALT | 0 ft | 0 ft |
| | 60 m | 3,503 m | 359.68 | | 0 m | 0 m |

Approach Nav aids

| Runway | Type | Ident | Frequency | Range | Bearing (true) (mag) | Slope | Elevation |
|--------|------|-------|------------|-------|-------------------------|-------|-----------|
| 18L | DME | IML | 111.50 MHz | 18 nm | - | - | 1,916 ft |
| | | | | 33 km | - | | 1,916 m |
| 18R | DME | IMR | 110.70 MHz | 18 nm | - | - | 1,986 ft |
| | | | | 33 km | - | | 1,986 m |

| Runway | Type | Ident | Frequency | Range | Bearing (true) (mag) | Slope | Elevation |
|--------|---------|-------|------------|-------|-------------------------|-------|-----------|
| 32L | DME | MAA | 109.90 MHz | 18 nm | - | - | 1,998 ft |
| | | | | 33 km | - | | 1,998 m |
| 32R | DME | MBB | 109.10 MHz | 18 nm | - | - | 1,998 ft |
| | | | | 33 km | - | | 1,998 m |
| 18L | LOC-ILS | IML | 111.50 MHz | 18 nm | 179.76 | - | 1,998 ft |
| | | | | 33 km | 179.68 | | 1,998 m |
| 18R | LOC-ILS | IMR | 110.70 MHz | 18 nm | 179.75 | - | 1,998 ft |
| | | | | 33 km | 179.67 | | 1,998 m |
| 32L | LOC-ILS | MAA | 109.90 MHz | 18 nm | 322.32 | - | 1,998 ft |
| | | | | 33 km | 322.24 | | 1,998 m |
| 32R | LOC-ILS | MBB | 109.10 MHz | 18 nm | 322.33 | - | 1,998 ft |
| | | | | 33 km | 322.25 | | 1,998 m |
| 18L | GS | IML | 111.50 MHz | 10 nm | 179.76 | 3.00 | 1,998 ft |
| | | | | 19 km | 179.68 | | 1,998 m |
| 18R | GS | IMR | 110.70 MHz | 10 nm | 179.75 | 3.00 | 1,978 ft |
| | | | | 19 km | 179.67 | | 1,978 m |
| 32L | GS | MAA | 109.90 MHz | 10 nm | 322.32 | 3.00 | 1,998 ft |
| | | | | 19 km | 322.24 | | 1,998 m |
| 32R | GS | MBB | 109.10 MHz | 10 nm | 322.33 | 3.00 | 1,998 ft |
| | | | | 19 km | 322.25 | | 1,998 m |