

# ENGM

Oslo Gardermoen

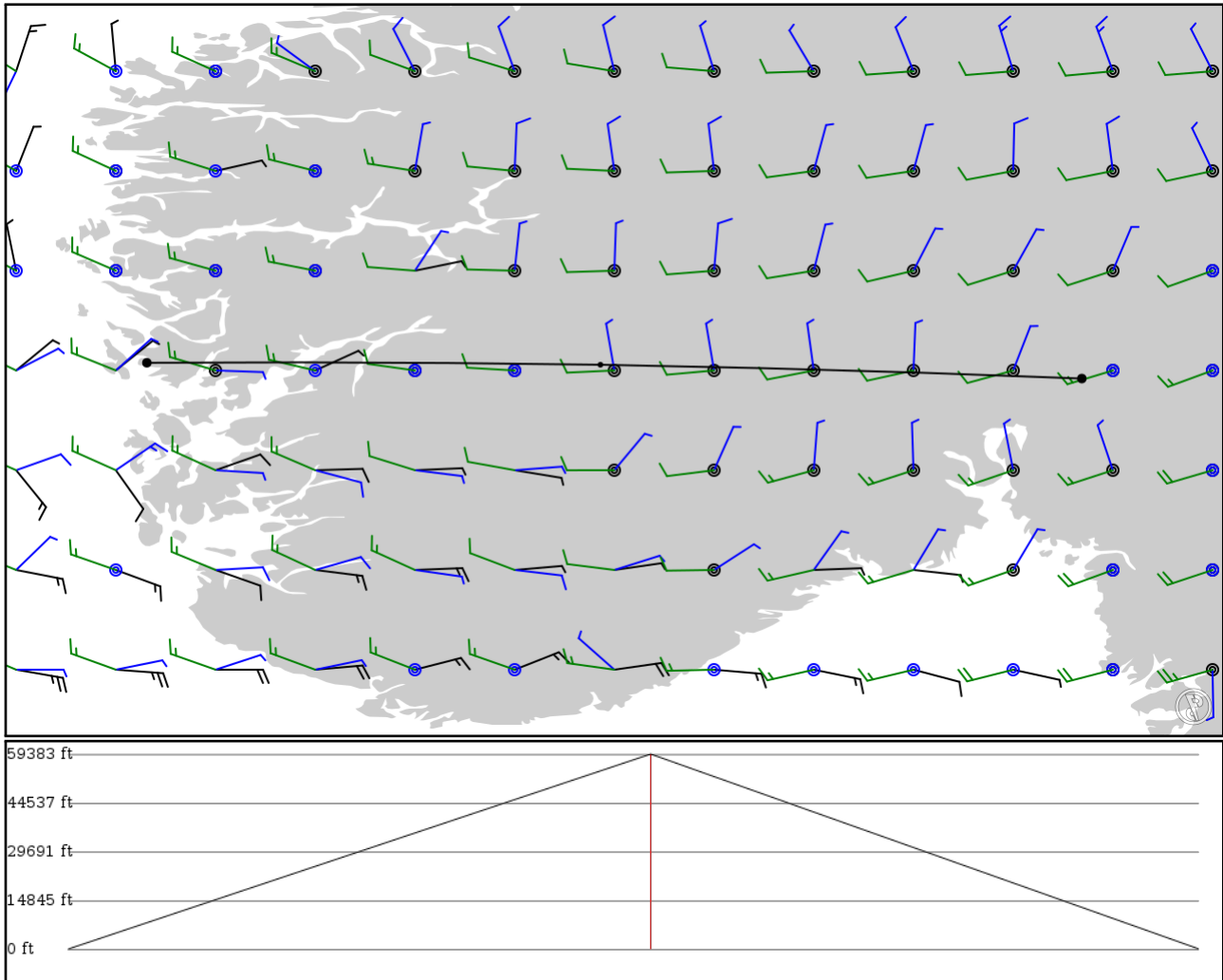
# ENBR

Bergen Lufthavn Flesland

2024/06/06 1227Z

ENGM XAROS ENBR

175.33 nm / 324.72 km



## Notes

Basic altitude profile:

- Ascent Rate: 2500ft/min
- Ascent Speed: 330kts
- Cruise Altitude: 35000ft
- Cruise Speed: 420kts
- Descent Rate: 1500ft/min
- Descent Speed: 250kts

Options:

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



## Route

| Ident<br>Type | Via | Lat<br>Lon | Alt       | Dist<br>(nm) | Name                     |
|---------------|-----|------------|-----------|--------------|--------------------------|
| ENGM          | -   | 60.19450   | 0 ft      | -            | Oslo Gardermoen          |
| APT           | -   | 11.09890   | 0 m       |              |                          |
| XAROS         | -   | 60.28130   | 18,100 ft | 90           | -                        |
| FIX           | -   | 8.07091    | 5,517 m   |              |                          |
| ENBR          | -   | 60.29360   | 0 ft      | 84           | Bergen Lufthavn Flesland |
| APT           | -   | 5.21806    | 0 m       |              |                          |

## ENGM

Region: NORWAY  
Timezone: EUROPE/OSLO  
Runways: 2

Elevation: 681 ft / 208 m  
Location: 60.194500 11.098900  
Magnetic Var: 4.493 E

## METAR

ENGM 061220Z 19016KT 170V230 CAVOK 15/03 Q1006 NOSIG

## TAF

TAF ENGM 061100Z 0612/0712 20015KT 9999 FEW030TCU SCT050 TEMPO 0612/0620 21018G28KT TSRA SCT030CB PROB30 0623/0700

## Frequencies

REC - 126.12 MHz - GARDERMOEN ARRIVAL INFORMATION  
CLD - 121.67 MHz - GARDERMOEN DELIVERY WEST  
GND - 121.75 MHz - GARDERMOEN GROUND  
GND - 121.90 MHz - GARDERMOEN GROUND EAST  
TWR - 120.10 MHz - GARDERMOEN TOWER  
APP - 120.45 MHz - OSLO APPROACH

REC - 127.15 MHz - GARDERMOEN DEPARTURE INFORMATION  
CLD - 121.92 MHz - GARDERMOEN DELIVERY EAST  
GND - 121.60 MHz - GARDERMOEN GROUND WEST  
TWR - 118.30 MHz - GARDERMOEN TOWER  
APP - 118.47 MHz - OSLO APPROACH

## Runways

| Ident | Width  | Length    | Bearing (true)<br>(mag) | Surface | Threshold<br>Offset | Overrun<br>Length |
|-------|--------|-----------|-------------------------|---------|---------------------|-------------------|
| 01R   | 148 ft | 9,664 ft  | 16.01                   | ASPHALT | 0 ft                | 486 ft            |
|       | 45 m   | 2,946 m   | 11.51                   |         | 0 m                 | 148 m             |
| 19L   | 148 ft | 9,664 ft  | 196.02                  | ASPHALT | 0 ft                | 489 ft            |
|       | 45 m   | 2,946 m   | 191.53                  |         | 0 m                 | 149 m             |
| 01L   | 148 ft | 11,797 ft | 15.99                   | ASPHALT | 0 ft                | 423 ft            |
|       | 45 m   | 3,596 m   | 11.50                   |         | 0 m                 | 129 m             |
| 19R   | 148 ft | 11,797 ft | 196.01                  | ASPHALT | 0 ft                | 486 ft            |
|       | 45 m   | 3,596 m   | 191.52                  |         | 0 m                 | 148 m             |

## Approach Nav aids

| Runway | Type    | Ident | Frequency  | Range | Bearing (true)<br>(mag) | Slope | Elevation |
|--------|---------|-------|------------|-------|-------------------------|-------|-----------|
| 01L    | DME     | OBW   | 110.30 MHz | 18 nm | -                       | -     | 709 ft    |
|        |         |       |            | 33 km | -                       |       | 709 m     |
| 01R    | DME     | ONE   | 111.95 MHz | 18 nm | -                       | -     | 723 ft    |
|        |         |       |            | 33 km | -                       |       | 723 m     |
| 19L    | DME     | GME   | 110.55 MHz | 18 nm | -                       | -     | 729 ft    |
|        |         |       |            | 33 km | -                       |       | 729 m     |
| 19R    | DME     | GSW   | 111.30 MHz | 18 nm | -                       | -     | 727 ft    |
|        |         |       |            | 33 km | -                       |       | 727 m     |
| 01L    | LOC-ILS | OBW   | 110.30 MHz | 18 nm | 16.00                   | -     | 681 ft    |
|        |         |       |            | 33 km | 11.51                   |       | 681 m     |
| 01R    | LOC-ILS | ONE   | 111.95 MHz | 18 nm | 16.04                   | -     | 681 ft    |
|        |         |       |            | 33 km | 11.55                   |       | 681 m     |
| 19L    | LOC-ILS | GME   | 110.55 MHz | 18 nm | 196.04                  | -     | 681 ft    |
|        |         |       |            | 33 km | 191.55                  |       | 681 m     |
| 19R    | LOC-ILS | GSW   | 111.30 MHz | 18 nm | 196.00                  | -     | 681 ft    |
|        |         |       |            | 33 km | 191.51                  |       | 681 m     |
| 01L    | GS      | OBW   | 110.30 MHz | 10 nm | 16.00                   | 3.00  | 681 ft    |
|        |         |       |            | 19 km | 11.51                   |       | 681 m     |
| 01R    | GS      | ONE   | 111.95 MHz | 10 nm | 16.04                   | 3.00  | 681 ft    |
|        |         |       |            | 19 km | 11.55                   |       | 681 m     |

| Runway | Type | Ident | Frequency  | Range | Bearing (true)<br>(mag) | Slope | Elevation |
|--------|------|-------|------------|-------|-------------------------|-------|-----------|
| 19L    | GS   | GME   | 110.55 MHz | 10 nm | 196.04                  | 3.00  | 681 ft    |
|        |      |       |            | 19 km | 191.55                  |       | 681 m     |
| 19R    | GS   | GSW   | 111.30 MHz | 10 nm | 196.00                  | 3.00  | 681 ft    |
|        |      |       |            | 19 km | 191.51                  |       | 681 m     |

## ENBR

Region: NORWAY  
Timezone: EUROPE/OSLO  
Runways: 1

Elevation: 166 ft / 51 m  
Location: 60.293600 5.218060  
Magnetic Var: 2.003 E

## METAR

ENBR 061220Z 24013KT 9999 VCSH SCT030CB SCT036 BKN068 11/04 Q1007 TEMPO 4000 TSGS RMK WIND 1200FT 24014KT

## TAF

TAF ENBR 061100Z 0612/0712 22012KT 9999 -SHRA SCT020TCU BKN040 TEMPO 0612/0706 SHRA BKN020CB PROB30 TEMPO 0612/06

## Frequencies

REC - 125.25 MHz - FLESLAND INFORMATION  
TWR - 119.10 MHz - FLESLAND TOWER  
APP - 125.00 MHz - FLESLAND APPROACH EAST  
GND - 121.90 MHz - FLESLAND GROUND  
APP - 121.00 MHz - FLESLAND APPROACH WEST  
CLD - 118.85 MHz - FLESLAND DIRECTOR

## Runways

| Ident | Width  | Length   | Bearing (true)<br>(mag) | Surface | Threshold<br>Offset | Overrun<br>Length |
|-------|--------|----------|-------------------------|---------|---------------------|-------------------|
| 17    | 148 ft | 9,791 ft | 170.53                  | ASPHALT | 876 ft              | 0 ft              |
|       | 45 m   | 2,984 m  | 168.52                  |         | 267 m               | 0 m               |
| 35    | 148 ft | 9,791 ft | 350.53                  | ASPHALT | 889 ft              | 0 ft              |
|       | 45 m   | 2,984 m  | 348.53                  |         | 271 m               | 0 m               |

## Approach Nav aids

| Runway | Type    | Ident | Frequency  | Range | Bearing (true)<br>(mag) | Slope | Elevation |
|--------|---------|-------|------------|-------|-------------------------|-------|-----------|
| 17     | LOC-ILS | BR    | 109.90 MHz | 18 nm | 170.56                  | -     | 165 ft    |
|        |         |       |            | 33 km | 168.56                  |       | 165 m     |
| 35     | LOC-ILS | BG    | 110.50 MHz | 18 nm | 350.55                  | -     | 165 ft    |
|        |         |       |            | 33 km | 348.54                  |       | 165 m     |
| 17     | GS      | BR    | 109.90 MHz | 10 nm | 170.53                  | 3.10  | 166 ft    |
|        |         |       |            | 19 km | 168.53                  |       | 166 m     |
| 35     | GS      | BG    | 110.50 MHz | 10 nm | 350.53                  | 3.00  | 166 ft    |
|        |         |       |            | 19 km | 348.53                  |       | 166 m     |