

# ENGM

Oslo Gardermoen

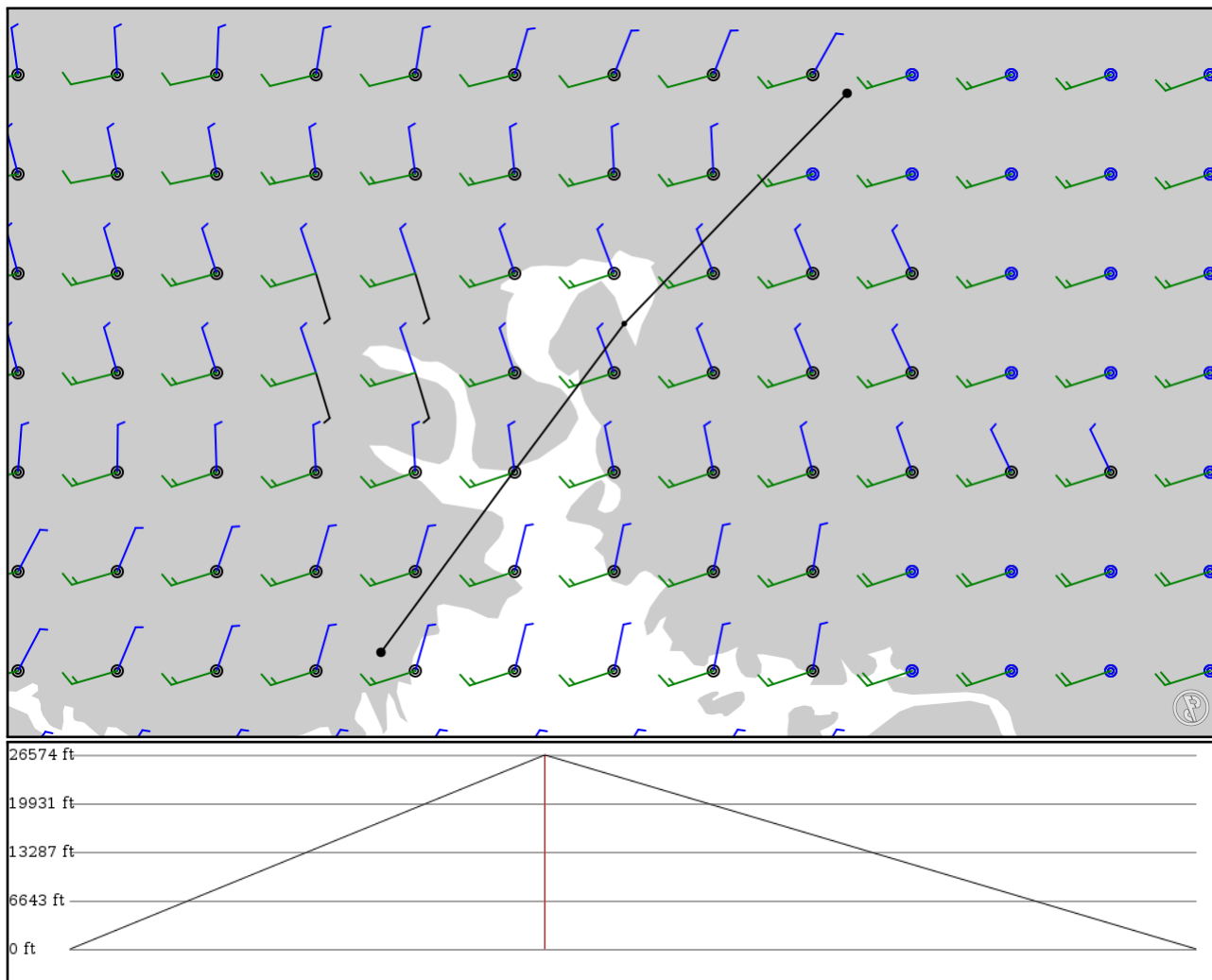
# ENTO

Sandefjord/Torp Airport

2024/05/18 0045Z

ENGM BAMIX ENTO

65.72 nm / 121.71 km



## Notes

Basic altitude profile:

- Ascent Rate: 2500ft/min
- Ascent Speed: 250kts
- 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      |              |                         |
| BAMIX         | -   | 59.77920   | 8,100 ft | 27           | -                       |
| FIX           | -   | 10.69720   | 2,469 m  |              |                         |
| ENTO          | -   | 59.18680   | 0 ft     | 38           | Sandefjord/Torp Airport |
| APT           | -   | 10.25860   | 0 m      |              |                         |

## ENGM

Region: NORWAY  
Timezone: EUROPE/OSLO  
Runways: 2

Elevation: 681 ft / 208 m  
Location: 60.194500 11.098900  
Magnetic Var: 4.484 E

## METAR

ENGM 180020Z 03004KT CAVOK 09/03 Q1019

## TAF

TAF ENGM 172300Z 1800/1824 36003KT CAVOK BECMG 1808/1810 19010KT BECMG 1819/1821 VRB03KT

## 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   | 11.52                   |         | 0 m                 | 148 m             |
| 19L   | 148 ft | 9,664 ft  | 196.02                  | ASPHALT | 0 ft                | 489 ft            |
|       | 45 m   | 2,946 m   | 191.54                  |         | 0 m                 | 149 m             |
| 01L   | 148 ft | 11,797 ft | 15.99                   | ASPHALT | 0 ft                | 423 ft            |
|       | 45 m   | 3,596 m   | 11.51                   |         | 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 | 11.52                   |       | 681 m     |
| 01R    | LOC-ILS | ONE   | 111.95 MHz | 18 nm | 16.04                   | -     | 681 ft    |
|        |         |       |            | 33 km | 11.56                   |       | 681 m     |
| 19L    | LOC-ILS | GME   | 110.55 MHz | 18 nm | 196.04                  | -     | 681 ft    |
|        |         |       |            | 33 km | 191.56                  |       | 681 m     |
| 19R    | LOC-ILS | GSW   | 111.30 MHz | 18 nm | 196.00                  | -     | 681 ft    |
|        |         |       |            | 33 km | 191.52                  |       | 681 m     |
| 01L    | GS      | OBW   | 110.30 MHz | 10 nm | 16.00                   | 3.00  | 681 ft    |
|        |         |       |            | 19 km | 11.52                   |       | 681 m     |
| 01R    | GS      | ONE   | 111.95 MHz | 10 nm | 16.04                   | 3.00  | 681 ft    |
|        |         |       |            | 19 km | 11.56                   |       | 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 | 191.56                  |       | 681 m     |
| 19R    | GS   | GSW   | 111.30 MHz | 10 nm | 196.00                  | 3.00  | 681 ft    |
|        |      |       |            | 19 km | 191.52                  |       | 681 m     |

## ENTO

Region: NORWAY  
Timezone: EUROPE/OSLO  
Runways: 1

Elevation: 285 ft / 87 m  
Location: 59.186800 10.258600  
Magnetic Var: 4.066 E

## METAR

ENTO 180020Z AUTO 33003KT 9999 NCD 13/04 Q1018

## TAF

TAF ENTO 172300Z 1800/1824 02005KT CAVOK BECMG 1809/1811 19010KT BECMG 1816/1818 25008KT

## Frequencies

REC - 119.07 MHz - ATIS  
TWR - 118.65 MHz - TOWER

GND - 126.17 MHz - GROUND

## Runways

| Ident | Width  | Length   | Bearing (true)<br>(mag) | Surface | Threshold<br>Offset | Overrun<br>Length |
|-------|--------|----------|-------------------------|---------|---------------------|-------------------|
| 18    | 148 ft | 8,862 ft | 179.32                  | ASPHALT | 443 ft              | 443 ft            |
|       | 45 m   | 2,701 m  | 175.25                  |         | 135 m               | 135 m             |
| 36    | 148 ft | 8,862 ft | 359.32                  | ASPHALT | 394 ft              | 489 ft            |
|       | 45 m   | 2,701 m  | 355.25                  |         | 120 m               | 149 m             |

## Approach Nav aids

| Runway | Type    | Ident | Frequency  | Range | Bearing (true)<br>(mag) | Slope | Elevation |
|--------|---------|-------|------------|-------|-------------------------|-------|-----------|
| 36     | DME     | SFJ   | 110.95 MHz | 25 nm | -                       | -     | 279 ft    |
|        |         |       |            | 46 km | -                       |       | 279 m     |
| 18     | LOC-ILS | TP    | 108.30 MHz | 18 nm | 179.33                  | -     | 312 ft    |
|        |         |       |            | 33 km | 175.26                  |       | 312 m     |
| 36     | LOC-ILS | SFJ   | 110.95 MHz | 18 nm | 359.32                  | -     | 285 ft    |
|        |         |       |            | 33 km | 355.25                  |       | 285 m     |
| 18     | LOC-ILS | TRP   | 108.30 MHz | 18 nm | 179.32                  | -     | 285 ft    |
|        |         |       |            | 33 km | 175.25                  |       | 285 m     |
| 18     | GS      | TP    | 108.30 MHz | 10 nm | 179.81                  | 3.00  | 286 ft    |
|        |         |       |            | 19 km | 175.75                  |       | 286 m     |
| 36     | GS      | SFJ   | 110.95 MHz | 10 nm | 359.32                  | 3.00  | 285 ft    |
|        |         |       |            | 19 km | 355.25                  |       | 285 m     |
| 18     | GS      | TRP   | 108.30 MHz | 10 nm | 179.32                  | 3.00  | 285 ft    |
|        |         |       |            | 19 km | 175.25                  |       | 285 m     |