

25 November 2021



COVID 19 IMPACT ON EUROPEAN AVIATION

EUROCONTROL
Comprehensive Assessment



SUPPORTING EUROPEAN AVIATION



NETWORK
MANAGER



Headlines

- 19,978 flights (77% of 2019 levels) on Wed 24 November 2021, decreasing over 2 weeks (-5%).
- Over the first 24 days of November, traffic is stable at 78% of 2019 levels.
- Yesterday, Ryanair was the busiest Aircraft Operator with 1,822 flights, followed by Turkish Airlines (969), Lufthansa (932), Air France (765) and KLM (593).
- Domestic traffic vs 2019: Europe (-24%), USA (-15%), China (-40%, a sharp decrease), Middle-East (-14%).
- Flights to/from Europe (intercontinental flows) are at -30% vs 2019 on 24 November.
- Fuel prices slightly decreased over 2 weeks reaching 206 cents/gallon on 19 November.
- Business Aviation (+21%), Charter (+23%) and All-cargo (+8%) are above 2019 levels. Traditional is at -32% vs 2019 and Low-cost is at -27%.



Traffic Situation

Daily flights (including overflights)

Traffic over the last 7 days is

↓23%

Compared to equivalent days in 2019

Top 10 Aircraft Operators on Wed 24 November 2021 (daily flights)

2.  Operated 969 flights
↓17% of same day in 2019
↑0% over 2 weeks

3.  Operated 932 flights
↓37% of same day in 2019
↑0% over 2 weeks

5.  Operated 593 flights
↓19% of same day in 2019
↑3% over 2 weeks

6.  Operated 544 flights
↓42% of same day in 2019
↓3% over 2 weeks

8.  Operated 428 flights
↓54% of same day in 2019
↓23% over 2 weeks

9.  Operated 372 flights
↓7% of same day in 2019
↓7% over 2 weeks

1.  Operated 1822 flights
↑18% of same day in 2019
↑0% over 2 weeks

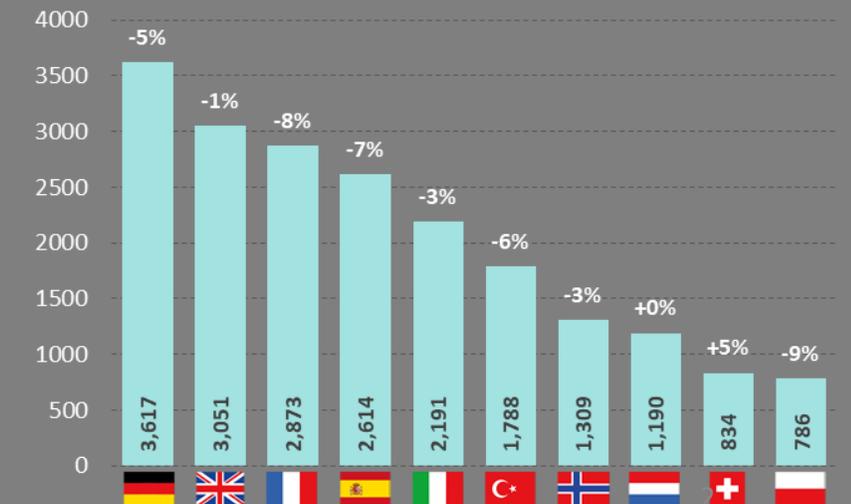
4.  Operated 765 flights
↓32% of same day in 2019
↓8% over 2 weeks

7.  Operated 447 flights
↓49% of same day in 2019
↑3% over 2 weeks

10.  Operated 360 flights
↓10% of same day in 2019
↓2% over 2 weeks

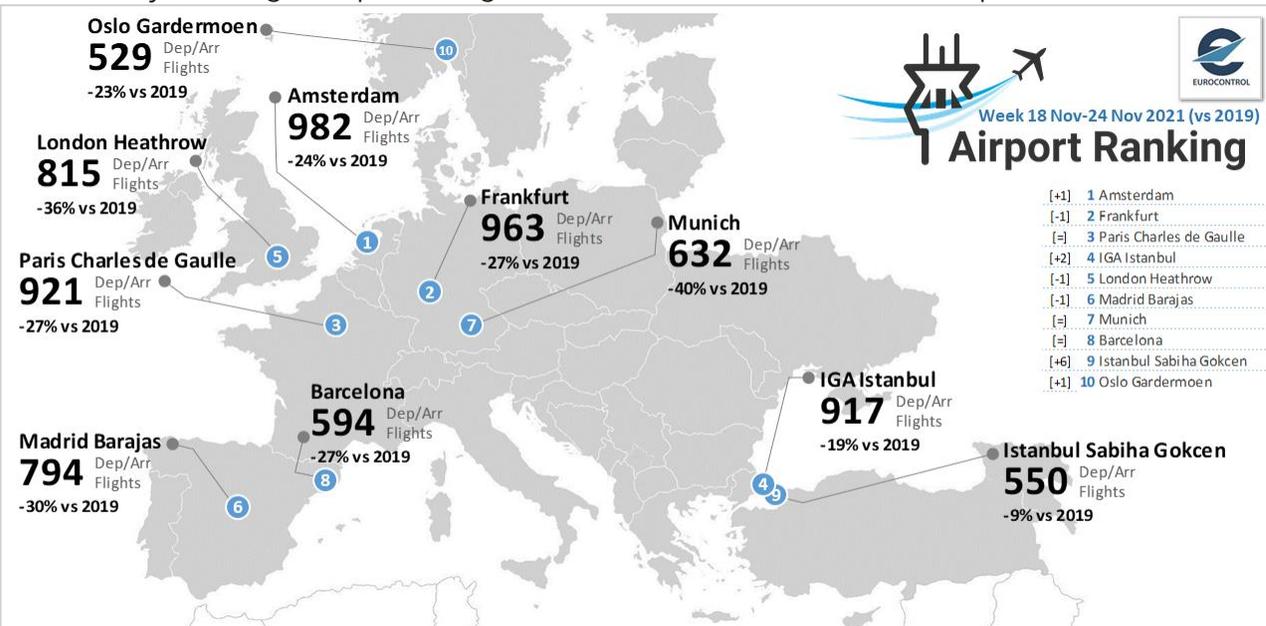
Top 10 Busiest States on Wed 24 November 2021

(Dep/Arr flights and variation over 2 weeks)



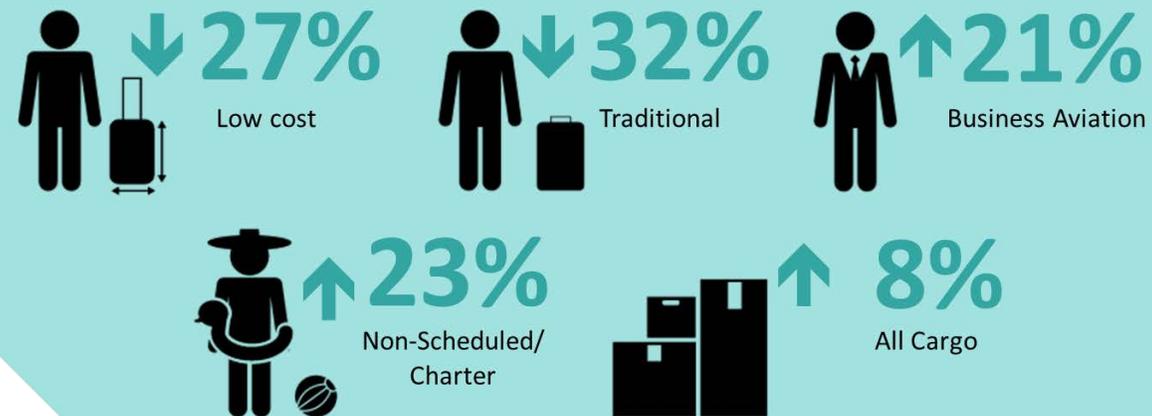
Top 10 Busiest Airports

7-day average Dep/Arr flights on 18–24 Nov. 2021, compared to 2019



Market Segments

On 24 Nov, compared to 2019



Traffic Flow

On 24 November, the **intra-European** traffic flow was

15,634
flights

-5%
over past
2 weeks

-24%
Compared
to 2019

Route charges

(October 2021)

Amount billed:

€ 505 million

Jan-Oct 2021 amount billed:

€ 3,289 million
vs. Jan-Oct 2019

↓ (-51%)

Source: EUROCONTROL

Economics

(19 November 2021)

Fuel price

↓ 206
Cents/gallon

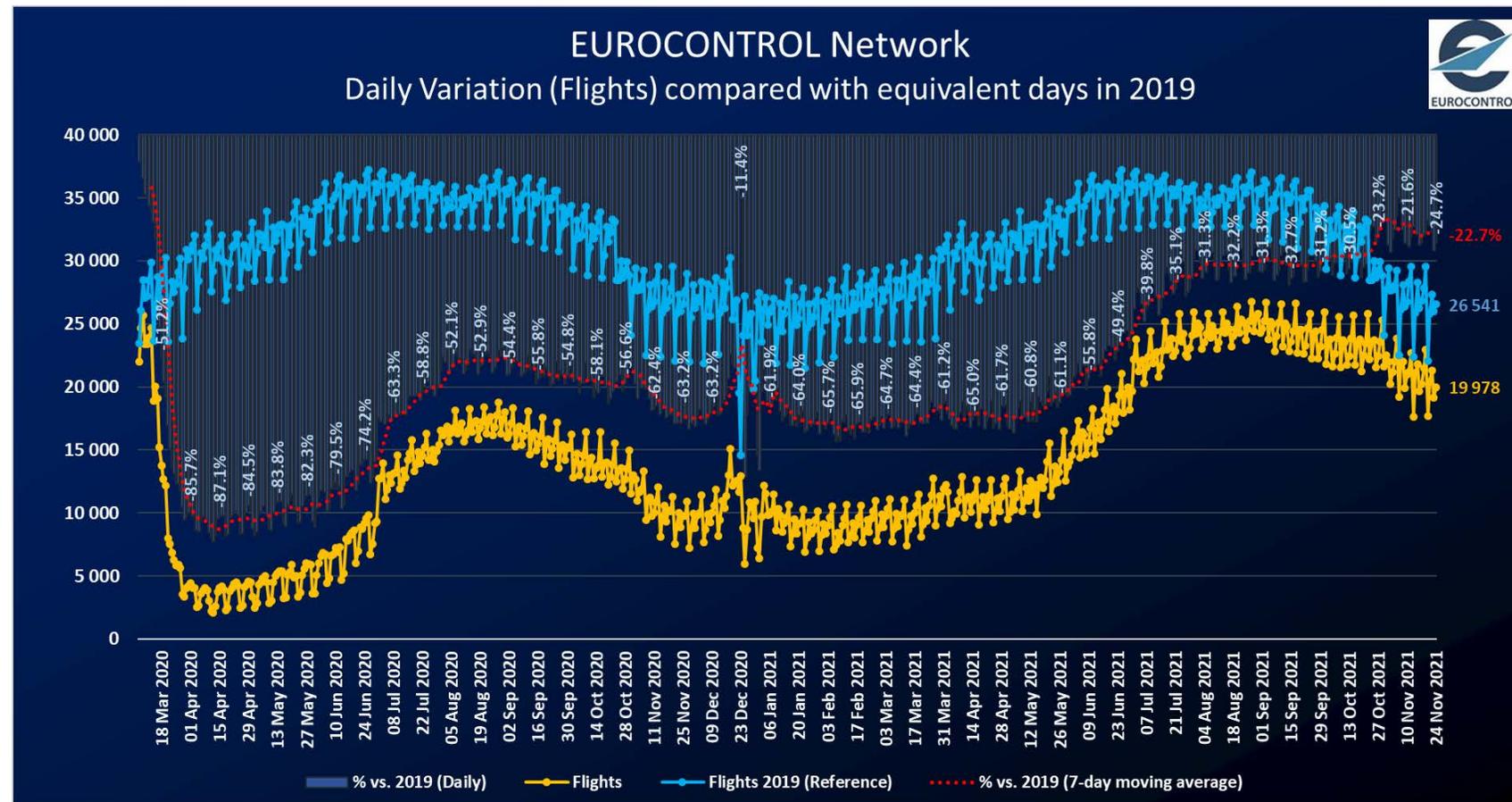
compared to
226 cents/gallon on 5 Nov 2021

Source: IATA/Platts

Overall traffic situation at network level

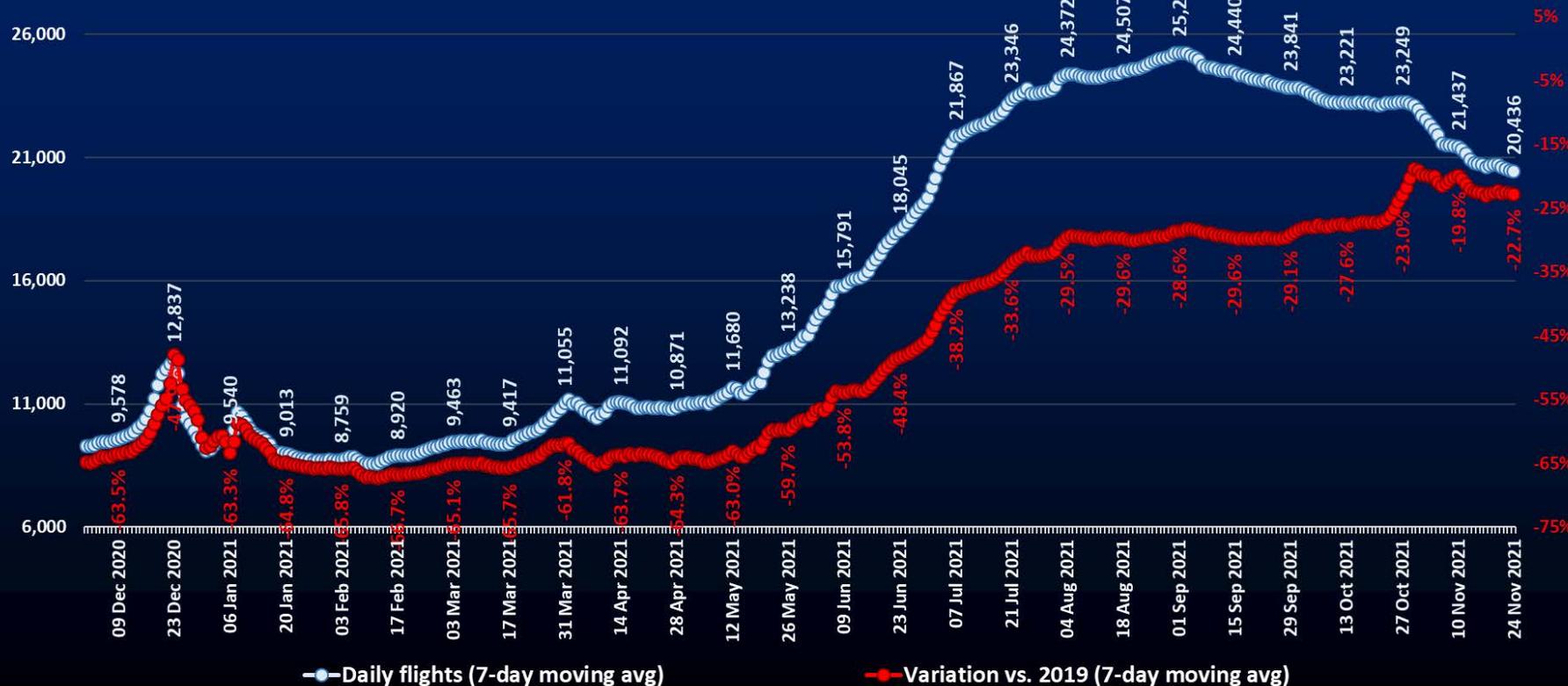


- ✘ **19,978 flights** on Wednesday 24 November.
- ✘ **-5%** with **-986 flight** over 2 weeks (from Wednesday 10 November).
- ✘ **-1%** with **-275 flights** over 1 week (from Wednesday 17 November).
- ✘ **77%** of 2019 traffic levels on Wednesday 24 November.



Current traffic evolution

EUROCONTROL Network - Flights
Since 1st December 2020

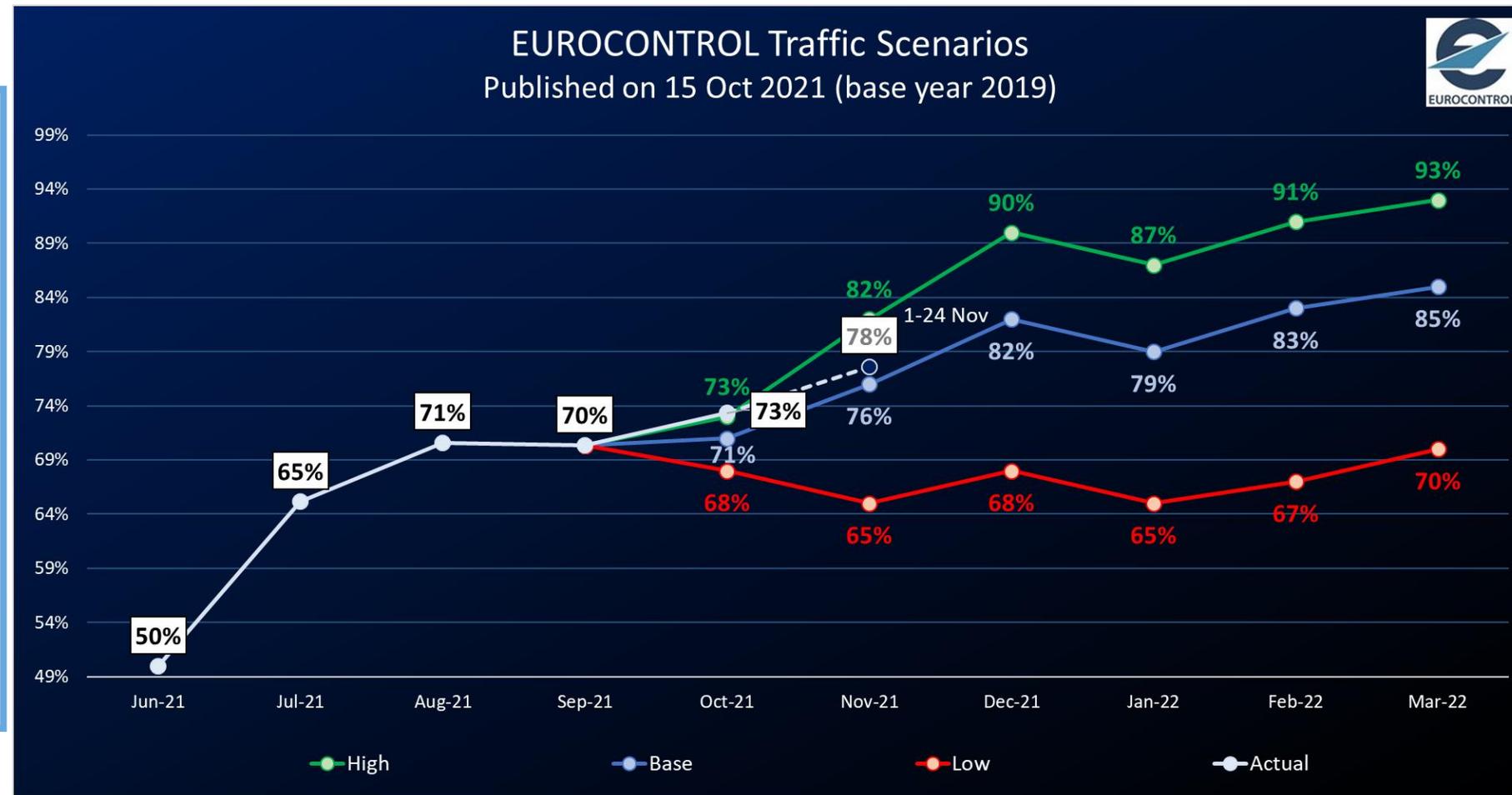


- ✘ The traffic at network level has reached its maximum on Friday 27 August 2021 with 26,773 flights (-27.7% vs 2019).
- ✘ Since early September, it has slowly decreased
- ✘ With the winter schedule, it has stabilized around 77% of 2019 levels.

Current situation compared to the latest EUROCONTROL traffic scenarios



- ✈ For the first 24 days of November 2021, **network traffic** was at **78%** compared to same period in 2019.
- ✈ Network traffic is close to the base scenario of the EUROCONTROL traffic scenarios published on 15 October 2021.



Market Segments



Market segments in EUROCONTROL Network
(compared with equivalent days in 2019)
7-day moving average (Flights)



On 24 November 2021, compared to 2019:

- ✘ Three segments are above 2019 levels: **All-cargo** (+8%), **Business Aviation** (+21%) and **Charter** (+23%) which has started to decrease since early November.
- ✘ Since early November, **Traditional** have stabilized at **-32%** vs 2019 while **Low-Cost**, after having reached a maximum of -18% end October, have gradually decreased to reach **-27%** vs 2019.

Aircraft operators (Daily flights)

Top 10



| Rank evolution over 2 weeks | Top 10 Aircraft Operators on Wed 24-11-2021 | | | | |
|-----------------------------|---|---------|----------------|----------------|-----------|
| | Aircraft Operator | Flights | Δ over 2 weeks | % over 2 weeks | % vs 2019 |
| → | Ryanair Group | 1822 | ↗ +4 | +0% | ↗ +18% |
| → | Turkish Airlines | 969 | → +1 | +0% | ↘ -17% |
| → | Lufthansa Airlines | 932 | ↗ +4 | +0% | ↘ -37% |
| → | Air France Group | 765 | ↘ -71 | -8% | ↘ -32% |
| → | KLM Group | 593 | ↗ +17 | +3% | ↘ -19% |
| → | SAS Group | 544 | ↘ -17 | -3% | ↘ -42% |
| ↗ | British Airways Group | 447 | ↗ +11 | +3% | ↘ -49% |
| ↘ | easyJet Group | 428 | ↘ -131 | -23% | ↘ -54% |
| ↗ | Wideroe | 372 | ↘ -28 | -7% | ↘ -7% |
| ↗ | Pegasus | 360 | ↘ -7 | -2% | ↘ -10% |

Within the top 10, **highest decreases** over 2 weeks for:

- ✘ **easyJet** (-131 flights; -23%) mainly due to flows France-France, France-Italy, France-Spain, France Portugal and Spain-UK.
- ✘ **Air France** (-71 flights; -8%) mainly due to flows France-Morocco and France-Portugal.

Highest (slight) increases for:

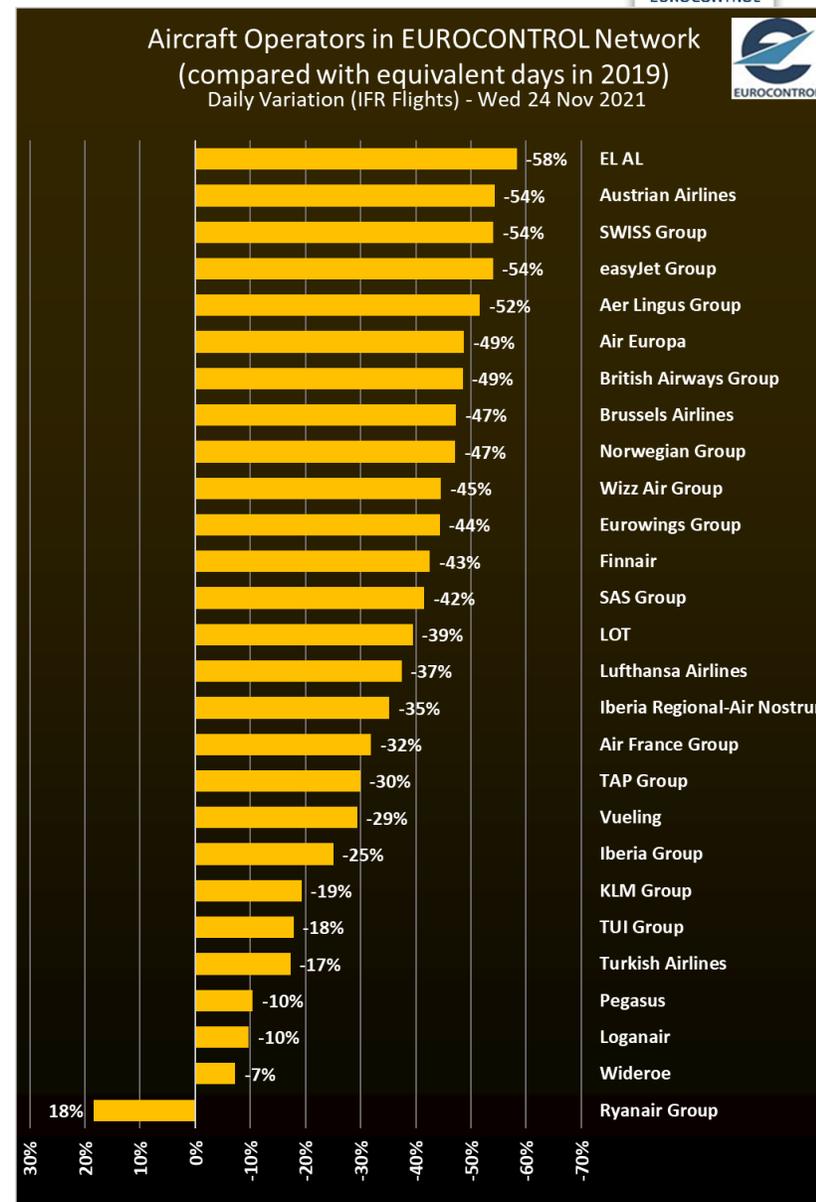
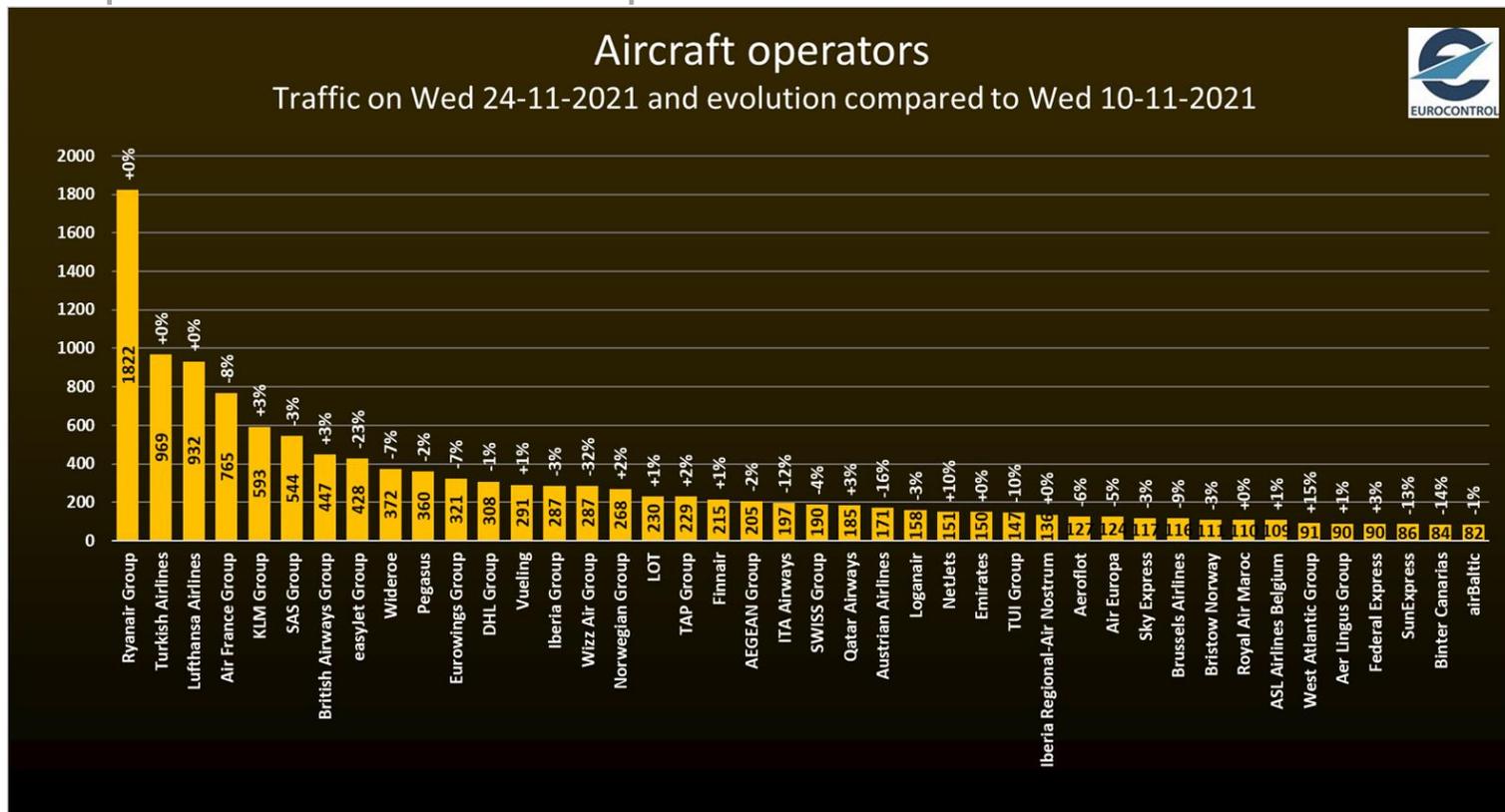
- ✘ **KLM** (+17 flights; +3%) mainly due to flows Germany-Netherlands.
- ✘ **British Airways** (+11 flights; +3%) mainly due flows between UK and US.

✘ **Ryanair** is by far the busiest Aircraft Operator with 1,822 flights, followed by **Turkish Airlines** (969), **Lufthansa** (932), **Air France** (765) and **KLM** (593).

✘ Over 2 weeks, BA, Wideroe and Pegasus increased their ranking while easyJet decreased.

Aircraft operators (Daily flights)

Top 40 – Latest operations



- ✂ Highest (slight) increase in flights for **KLM** (+3% over 2 weeks).
- ✂ Highest decreases for **Wizz Air** (-32%), **easyJet** (-23%) and **Air France** (-8%).
- ✂ Traffic levels ranging from -58% (**EL AL**) to +18% (**Ryanair**) vs 2019.

European airlines

- ✘ **Air Malta** moving to a fleet of 8 A320neo aircraft and focusing on major European hubs (20 destinations, down from 40); seeing late bookings continuing into November and December.
- ✘ **British Airways** planning to increase its workforce by approx. 4,000.
- ✘ **easyJet** to recruit 1,500 seasonal cabin crew.
- ✘ **ITA** reports 600,000 passengers since it commenced operations on 15 October; aiming for 30 codeshare agreements by Q1 2022.
- ✘ **Lufthansa** has repaid €1 billion to Germany's Economic Stabilisation Fund, which will now sell its stake of 14% in the group by October 2023; reports business class bookings 12% lower than pre-COVID but first class bookings 8% higher; Lufthansa Group purchases \$250 million of SAF.
- ✘ **Ryanair** opens new bases at Agadir (with 2 aircraft based there and 20 new routes planned for summer 2022); at Stockholm Arlanda (with 4 aircraft based there and 35 routes planned for next summer); at Billund (2 aircraft, 14 new routes for summer 2022); at Riga (2 aircraft, 17 new routes), at Turin (2 aircraft, 19 new routes) and at Madeira (2 aircraft, 10 new routes); cancels listing on the London Stock Exchange.

- ✘ **SAS** increases its flights to the US, with up to 100 per week over the Christmas and New Year period.
- ✘ **Transavia** receives a fine of €400,000 from the Dutch Data Protection Agency for a data breach in 2019.

Worldwide airlines

- ✘ **Aeroflot Group** reported 4.5 million passengers in October, 11.3% fewer than in 2019 (domestic +20%, international -48%).
- ✘ **Air India:** Tata Group will assume control by 23 January, in a reported agreement with the Indian Government.
- ✘ **Cathay Pacific** October passengers 97% down on 2019.
- ✘ **Emirates Airline** adds daily service to Bangkok utilising an A380; announces a major programme to retrofit 105 aircraft with premium economy, commencing in late 2022.
- ✘ **Singapore Airlines** Group reported its 'full service carrier' passengers in October were down 91% on 2019.

States (Daily Departure/Arrival flights)

Top 10



| Rank evolution over 2 weeks | State | Flights (Dep/Arr) | Δ over 2 weeks | % over 2 weeks | % vs 2019 |
|-----------------------------|----------------|-------------------|----------------|----------------|-----------|
| → | Germany | 3617 | ↓ -201 | -5% | ↓ -31% |
| ↗ | United Kingdom | 3051 | ↓ -46 | -1% | ↓ -35% |
| ↓ | France | 2873 | ↓ -241 | -8% | ↓ -23% |
| → | Spain | 2614 | ↓ -201 | -7% | ↓ -22% |
| → | Italy | 2191 | ↓ -75 | -3% | ↓ -22% |
| → | Turkey | 1788 | ↓ -124 | -6% | ↓ -15% |
| → | Norway | 1309 | ↓ -35 | -3% | ↓ -18% |
| → | Netherlands | 1190 | ↗ +3 | +0% | ↓ -20% |
| ↗ | Switzerland | 834 | ↗ +37 | +5% | ↓ -24% |
| ↓ | Poland | 786 | ↓ -76 | -9% | ↓ -27% |

Within the top 10, **highest decreases** over two weeks for:

- ✘ **France** (-241 flights; -8%) mainly due to easyJet, light AOs, Transavia and Volotea. Domestic flows and flows with Portugal, Morocco, Italy and Spain.
 - ✘ **Spain** (-201 flights; -7%) mainly due to light AOs, Binter Canarias and easyJet. Domestic flows and flows with UK.
 - ✘ **Germany** (-201 flights; -5%) mainly due to light AOs, Wizz Air and Eurowings. Domestic flows and flows with Austria, Spain and Turkey
 - ✘ **Turkey** (-124 flights; -6%) due to Norwind Airlines, Azur Air, SunExpress and Pegasus. Flows with Russia and domestic flows.
- Highest (slight) increases** for
- ✘ **Switzerland** (+37 flights; +5%) mainly due to light AOs and domestic flows.

✘ **Germany** is the State with the highest number of dep/arr flights (3,617) followed by **UK** (3,051), **France** (2,873), **Spain** (2,614) and **Italy** (2,191).

✘ Over 2 weeks, UK and Switzerland increased their ranking while France and Poland decreased.

States (Daily Departure/Arrival flights)

Top 10 over the last rolling week



Top 10 States

on Week 18 Nov - 24 Nov 2021 (avg daily dep/arr)

| | | |
|-----|--|--|
| 1. |  Germany | 3,592 flights ↓ 29% vs same week in 2019 ↓ 5% over 2 weeks |
| 2. |  United Kingdom | 3,250 flights ↓ 34% vs same week in 2019 ↓ 3% over 2 weeks |
| 3. |  Spain | 3,049 flights ↓ 18% vs same week in 2019 ↓ 7% over 2 weeks |
| 4. |  France | 2,936 flights ↓ 20% vs same week in 2019 ↓ 9% over 2 weeks |
| 5. |  Italy | 2,319 flights ↓ 20% vs same week in 2019 ↓ 4% over 2 weeks |
| 6. |  Turkey | 1,950 flights ↓ 13% vs same week in 2019 ↓ 7% over 2 weeks |
| 7. |  Netherlands | 1,205 flights ↓ 21% vs same week in 2019 ↓ 2% over 2 weeks |
| 8. |  Norway | 1,195 flights ↓ 15% vs same week in 2019 ↓ 0% over 2 weeks |
| 9. |  Switzerland | 819 flights ↓ 26% vs same week in 2019 ↓ 6% over 2 weeks |
| 10. |  Poland | 808 flights ↓ 22% vs same week in 2019 ↓ 4% over 2 weeks |

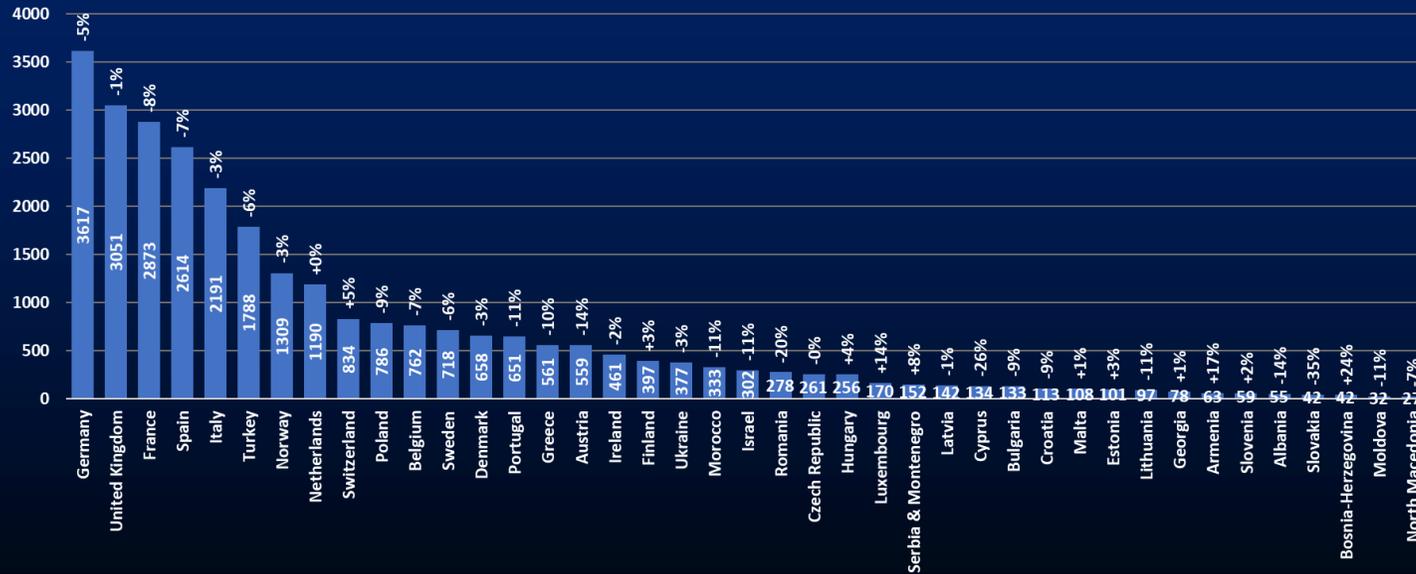
States (Daily Departure/Arrival flights)

Latest traffic situation



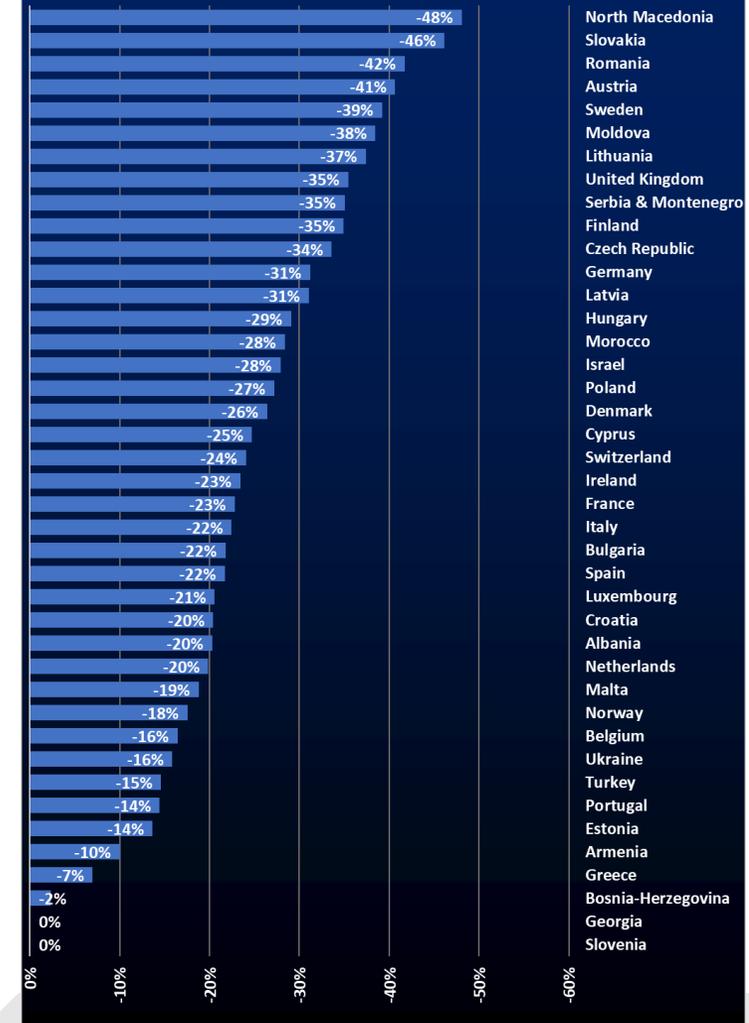
States (Dep/Arr flights)

Traffic on Wed 24-11-2021 and evolution compared to Wed 10-11-2021



States in EUROCONTROL Network (compared with equivalent days in 2019)

Daily Variation (IFR Dep/Arr Flights) - Wed 24 Nov 2021



- ✘ Highest (slight) increase in flights for **Switzerland** (+5% over 2 weeks).
- ✘ Highest decreases for **France** (-8%), **Spain** (-7%), **Germany** (-5%) and **Turkey** (-6%).
- ✘ Traffic levels ranging from -48% (**North Macedonia**) to 0% (**Slovenia and Georgia**), compared to 2019.

Associations, Authorities, Industry and States

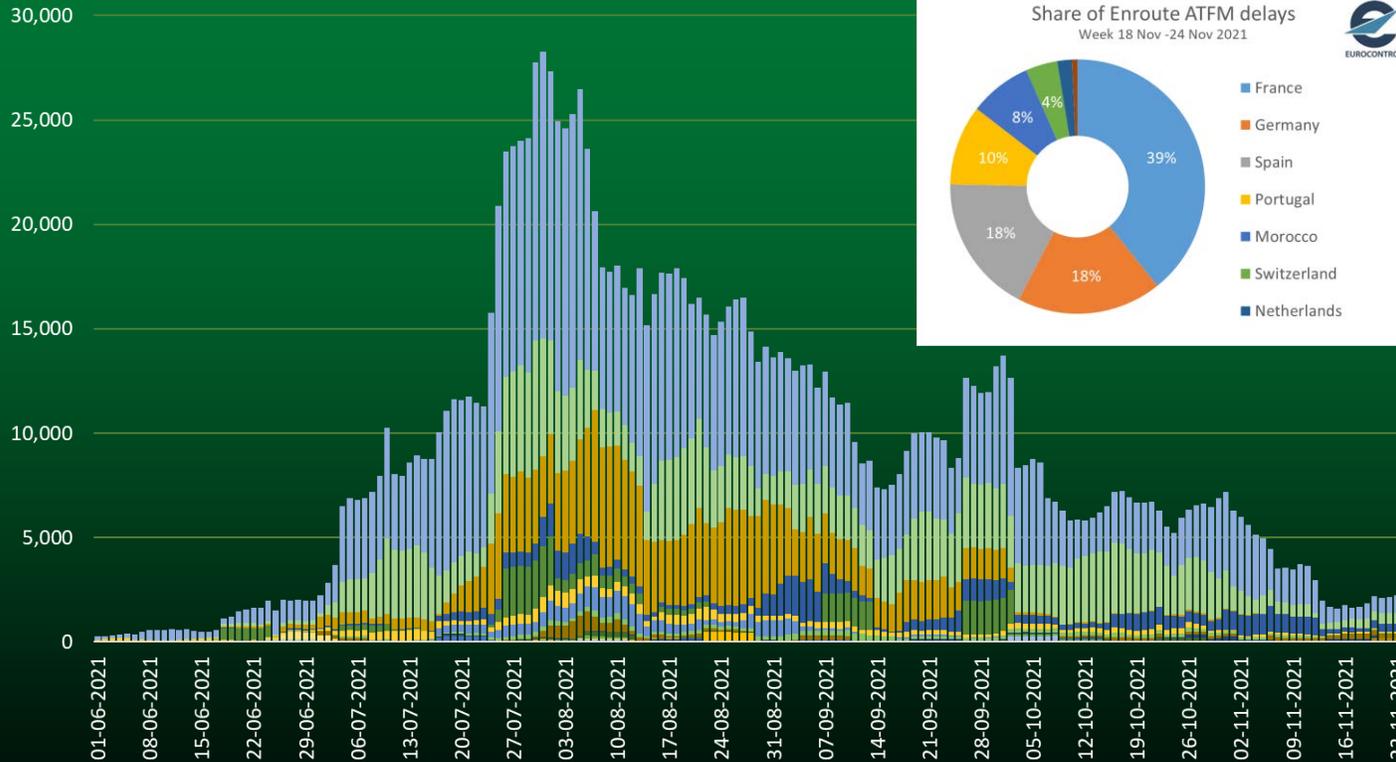


- ✘ **European Commission** proposes measures to restrict activities of transport operators that engage in or facilitate trafficking of people into the EU.
 - ✘ **EU Council** adopts regulation establishing European Partnership for Clean Aviation with nine joint undertakings under the Horizon Europe programme.
 - ✘ **UK Competition and Markets Authority** investigating IAG's planned acquisition of Air Europa.
-
- ✘ **Airbus** plans to increase production of the A320 family to 65 per month by mid 2023 (currently 45/month) with even higher rates potentially to follow.
 - ✘ **Boeing** delivered 22 aircraft in October, including 18 737s; states it is 'getting close' to resuming 787 deliveries.
 - ✘ **Embraer** to develop a new turboprop aircraft family with a 70 and a 90 seat variant, compatible with 100% SAF.
 - ✘ **Rolls-Royce** delivers its thousandth Trent XWB-84 engine, just five years after it first went into service.
-
- ✘ **Australia** reports 4,410 tourist arrivals in September, 99.4% fewer than in 2019

En-route ATFM delays



En-route ATFM Delays (European Network)
in minutes (7-day average)



- 1 - France
- 2 - Germany
- 3 - Greece
- 4 - Spain
- 5 - Italy
- 6 - Switzerland
- 7 - Croatia

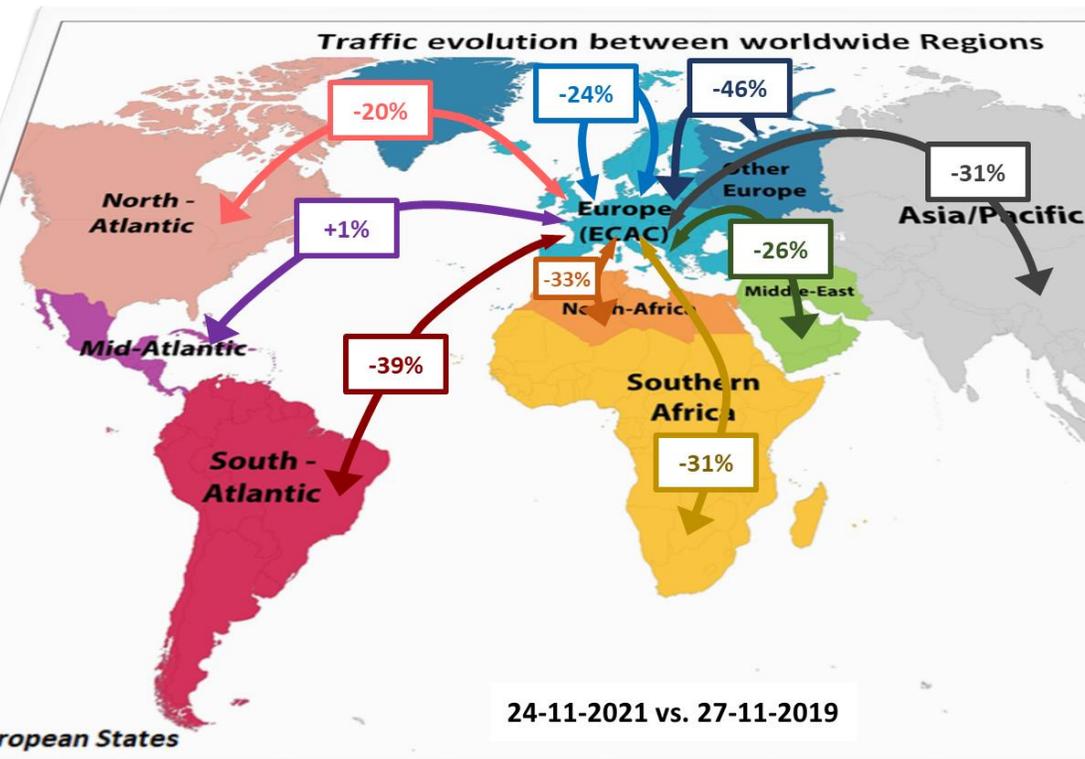
✘ En-route ATFM delays reached a maximum early August. Since then they have decreased but September has seen some weather delays.

✘ Major contributors over the last 7 days: **France** (39% of all en-route ATFM delays), **Germany** (18%), **Spain** (18%), **Portugal** (10%) and **Morocco** (8%).

Traffic flows (Daily Departure/Arrival flights)



- ✘ The main traffic flow is the intra-Europe flow with 15,634 flights on Wednesday 24 November, which is decreasing (-5%) over 2 weeks.
- ✘ Intra-Europe flights are at -24% compared to 2019 while intercontinental flows are at -30%.



| REGION | 10-11-2021 | 24-11-2021 | % | vs. 2019 |
|--------------------------|---------------|---------------|------------|-------------|
| Intra-Europe | 16 414 | 15 634 | -5% | -24% |
| Europe<->Asia/Pacific | 512 | 543 | +6% | -31% |
| Europe<->Mid-Atlantic | 147 | 149 | +1% | +1% |
| Europe<->Middle-East | 922 | 918 | -0% | -26% |
| Europe<->North Atlantic | 733 | 709 | -3% | -20% |
| Europe<->North-Africa | 629 | 527 | -16% | -33% |
| Europe<->Other Europe | 503 | 433 | -14% | -46% |
| Europe<->South-Atlantic | 117 | 106 | -9% | -39% |
| Europe<->Southern Africa | 232 | 232 | +0% | -31% |
| Non Intra-Europe | 3 795 | 3 617 | -5% | -30% |

Country pairs (Daily Departure/Arrival flights)

Top 10



| Rank evolution over 2 weeks | Top 10 Country-Pair on Wed 24-11-2021 | | | | |
|-----------------------------|---------------------------------------|-----------------|---------------|---------------|-----------|
| | Country-Pair | Dep/Arr Flights | Δ over 2 week | % over 2 week | % vs 2019 |
| → | France <-> France | 916 | ↓ -66 | -7% | ↓ -26% |
| → | Norway <-> Norway | 913 | ↓ -42 | -4% | ↓ -8% |
| → | Spain <-> Spain | 813 | ↓ -91 | -10% | ↓ -28% |
| ↗ | United Kingdom <-> United Kingdom | 798 | ↗ +45 | +6% | ↓ -25% |
| ↓ | Germany <-> Germany | 708 | ↓ -63 | -8% | ↓ -37% |
| → | Turkey <-> Turkey | 693 | ↓ -26 | -4% | ↓ -15% |
| → | Italy <-> Italy | 677 | ↓ -21 | -3% | ↓ -10% |
| → | Sweden <-> Sweden | 296 | ↓ -19 | -6% | ↓ -34% |
| → | Germany <-> Spain | 294 | ↓ -6 | -2% | ↓ -9% |
| ↗ | Greece <-> Greece | 263 | ↓ -14 | -5% | ↗ +1% |

Within the top 10, **highest decreases** over 2 weeks for:

- ✘ **Spain-Spain** (-91 flights; -10%) owing to light AOs and Binter Canarias. Mainly from/to La Palma and Madrid/Barajas.
- ✘ **France-France** (-66 flights; -7%) owing to easyJet, Volotea, light AOs and military flights. From/to many different airports.
- ✘ **Germany-Germany** (-63 flights; -8%) owing to light AOs. Mainly from/to Stuttgart, Dusseldorf and many other airports.
- ✘ **Norway-Norway** (-42 flights; -4%) owing to Wideroe and Flyr. Mainly from/to Oslo, Bergen, Tromso and Stavanger.

Highest increases for

- ✘ **UK-UK** (+45 flights; +6%) mainly due Easter Airways UK and light AOs. From/to many different airports.

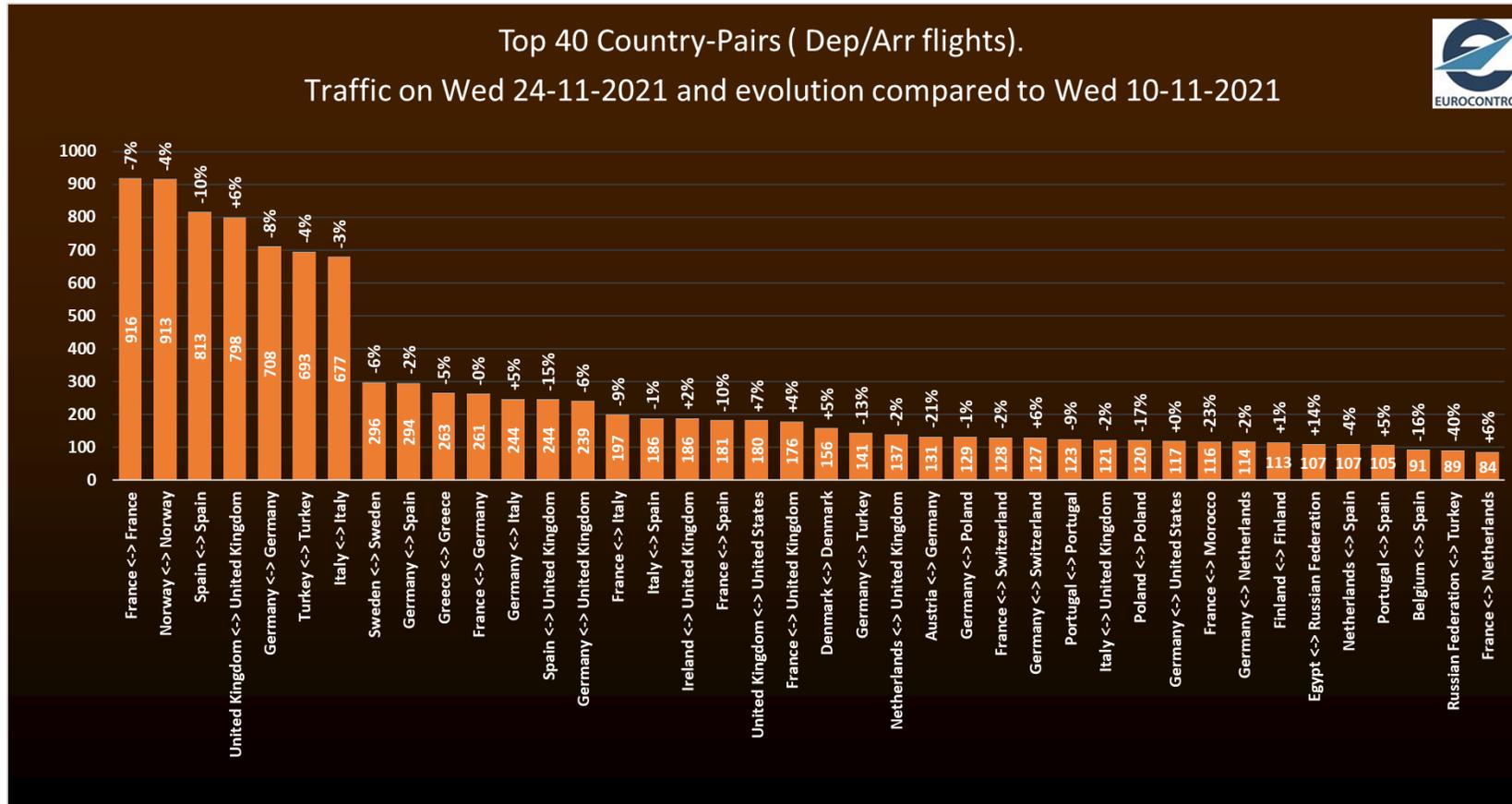
✘ 9 of the top 10 flows are domestic.

✘ **France-France** is the Country-Pair with the highest number of dep/arr flights (916) followed by **Norway-Norway** (913), **Spain-Spain** (813), **UK-UK** (798), **Germany-Germany** (708), **Turkey-Turkey** (693) and **Italy-Italy** (677).

✘ Over 2 weeks, domestic flows in UK and Greece increased their ranking while domestic flows in Germany decreased.

Country pairs (Daily Departure/Arrival flights)

Latest traffic situation



- ✘ Highest increase in flights for **UK-UK (+6% over 2 weeks)**.
- ✘ Highest decreases for **Spain-Spain (-10%)**, **France-France (-7%)**, **Germany-Germany (-8%)**, **Russia-Turkey (-40%)**, **Spain-UK (-15%)** and **Norway-Norway (-4%)**.

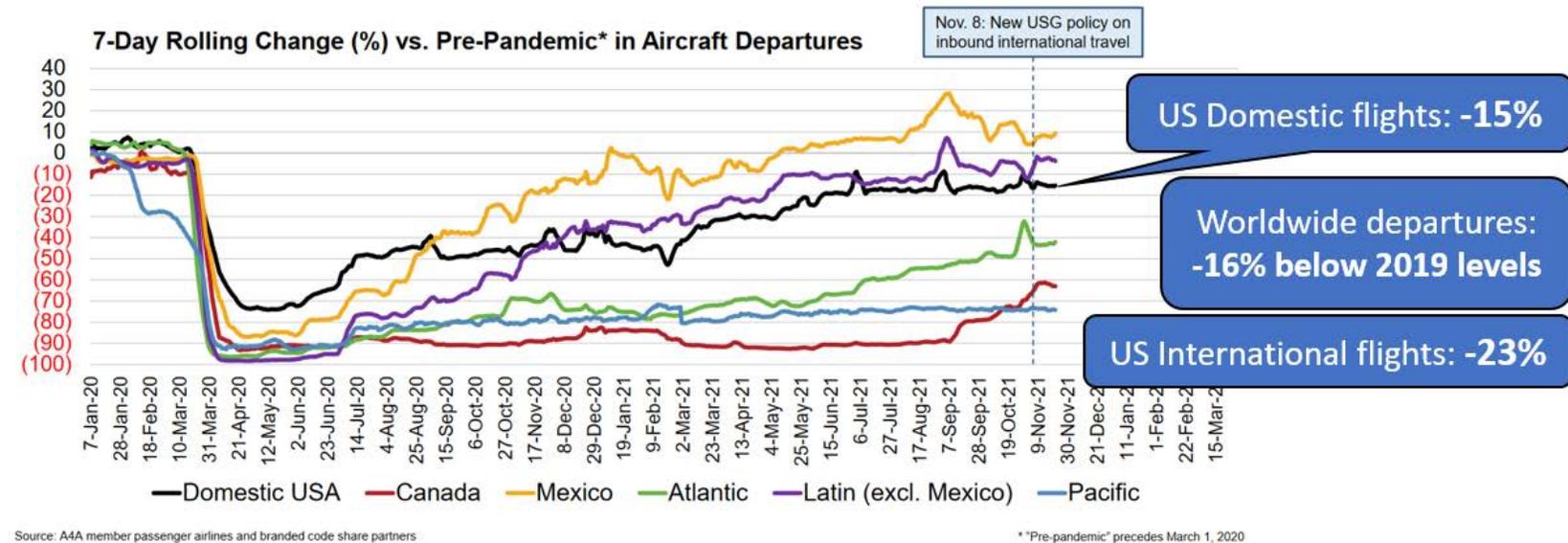
Outside Europe



USA

- ✂ On 23 November, US passenger airline departures were 16% below 2019 levels with domestic down 15%. International flights improved from -28% in late October to -23% owing to the new travel policy, effective from 8 November.
- ✂ The domestic US load factor was 82.7% over the recent weeks and exceeded pre-pandemic levels (79.3%).
- ✂ In most recent week, average airfares on tickets sold were 5% below pre-pandemic levels.

In Most Recent Week, U.S. Passenger Airline Departures Were 16% Below Pre-Pandemic Levels
 Domestic Flights Operated Down 15%, International Flights Operated Down 23%

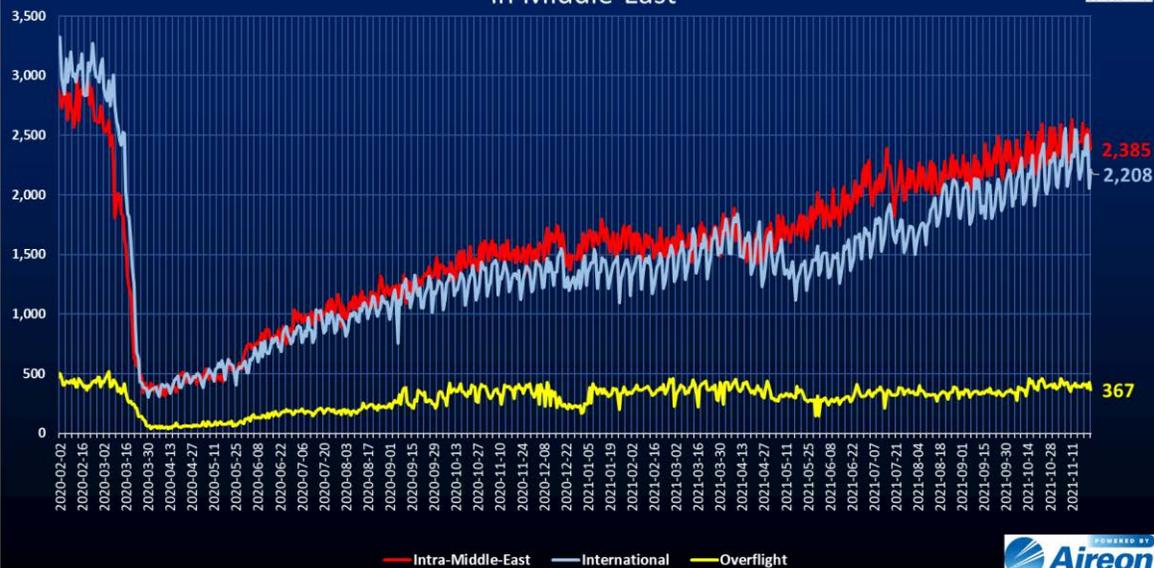


Outside Europe

Middle East

- ✘ Intra-Middle-East traffic recorded 2,385 daily flights on 23 November 2021 (-14% compared to Feb 2020).
- ✘ International traffic from and to Middle-East recorded 2,208 flights (-27% compared to Feb 2020).
- ✘ Overflights recorded 367 flights (-14% compared to Feb 2020) over the recent weeks.

Traffic variation since mid February 2020
in Middle-East



China

- ✘ Domestic traffic in China showed some recovery over recent weeks; flights were down -40% (7,133 flights) on 22 November (vs. 1 Jan 2020).
- ✘ International traffic from and to China recorded 1,387 flights (-66%) compared to 1 Jan 2020.
- ✘ Overflights recorded 596 flights (-63%) compared to 1 Jan 2020.

Traffic variation since November 2019
in China



Airports (Daily Departure/Arrival flights)

Top 10 and latest news



| Rank evolution over 2 weeks | Top 10 Airports on Wed 24-11-2021 | | | | |
|-----------------------------|-----------------------------------|-----------------|----------------|----------------|-----------|
| | Airport | Dep/Arr Flights | Δ over 2 weeks | % over 2 weeks | % vs 2019 |
| → | Amsterdam | 956 | ↗ +8 | +1% | ↘ -24% |
| ↗ | Frankfurt | 941 | ↗ +14 | +2% | ↘ -30% |
| ↘ | Paris/Charles-De-Gaulle | 912 | ↘ -33 | -3% | ↘ -28% |
| → | IGA Istanbul Airport | 903 | ↗ +30 | +3% | ↘ -18% |
| ↗ | London/Heathrow | 781 | ↗ +34 | +5% | ↘ -39% |
| → | Madrid/Barajas | 781 | ↘ -38 | -5% | ↘ -31% |
| → | Munich | 637 | ↗ +4 | +1% | ↘ -43% |
| ↗ | Barcelona | 553 | ↘ -5 | -1% | ↘ -26% |
| ↘ | Oslo/Gardermoen | 551 | ↘ -23 | -4% | ↘ -26% |
| → | Istanbul/Sabiha Gokcen | 488 | ↘ -20 | -4% | ↘ -11% |

✘ **Amsterdam** is the airport with the highest number of dep/arr flights (956) followed by **Frankfurt** (941), **Paris/CDG** (912), **IGA Istanbul** (903), **London/Heathrow** (781) and **Madrid/Barajas** (781).

✘ Over 2 weeks, Frankfurt, London/Heathrow and Barcelona increased their ranking while Paris/CDG and Oslo decreased.

Within the top 10, **highest decreases** over two weeks for:

- ✘ **Madrid** (-38 flights; -5%) mainly due to light AOs, Gestair Executive Jet, NetJets, Iberia and domestic flows in Spain.
- ✘ **Paris/CDG** (-33 flights; -3%) mainly due to easyJet and many different flows.

Highest increases for:

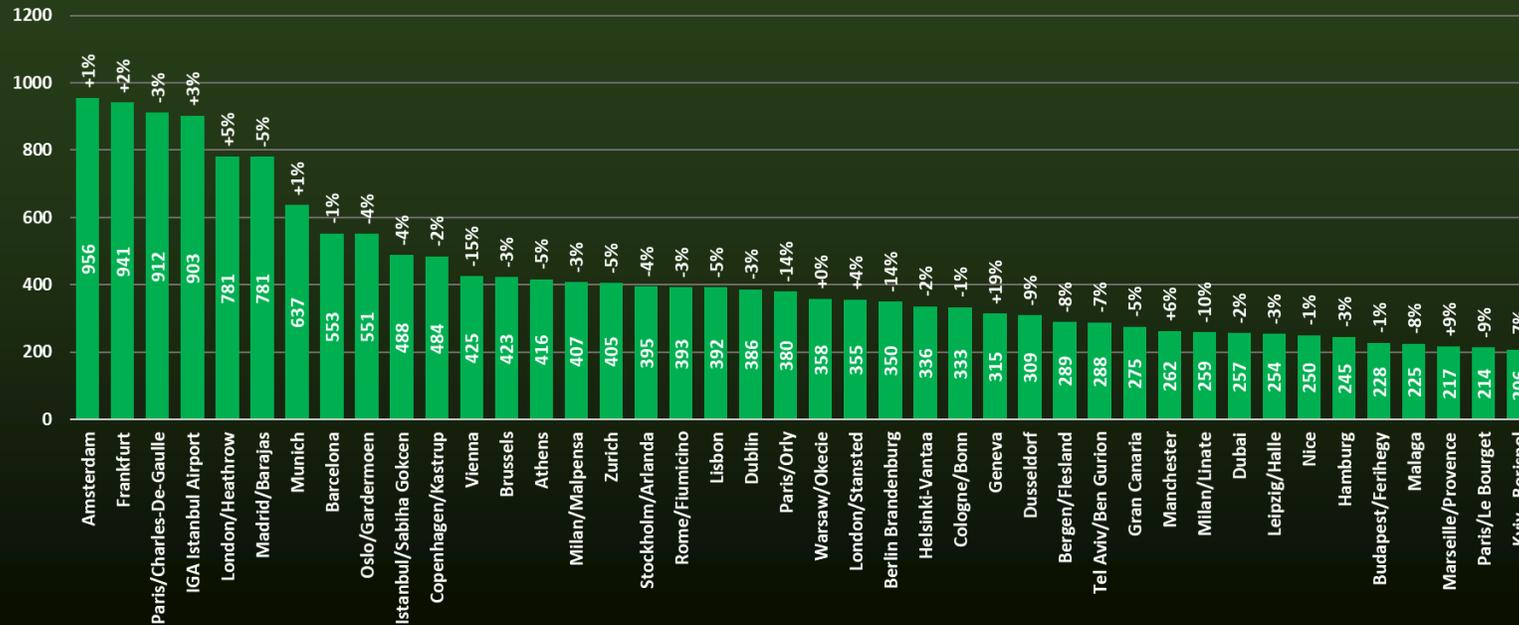
- ✘ **London/Heathrow** (+34 flights; +5%) mainly due to Virgin Atlantic, BA and many flows, in particular flows with the US.
- ✘ **IGA Istanbul** (+30 flights; +3%) mainly due to Turkish and many flows, in particular domestic flows and flows with Iran and Pakistan.

Airports (Daily Departure/Arrival flights)

Latest operations



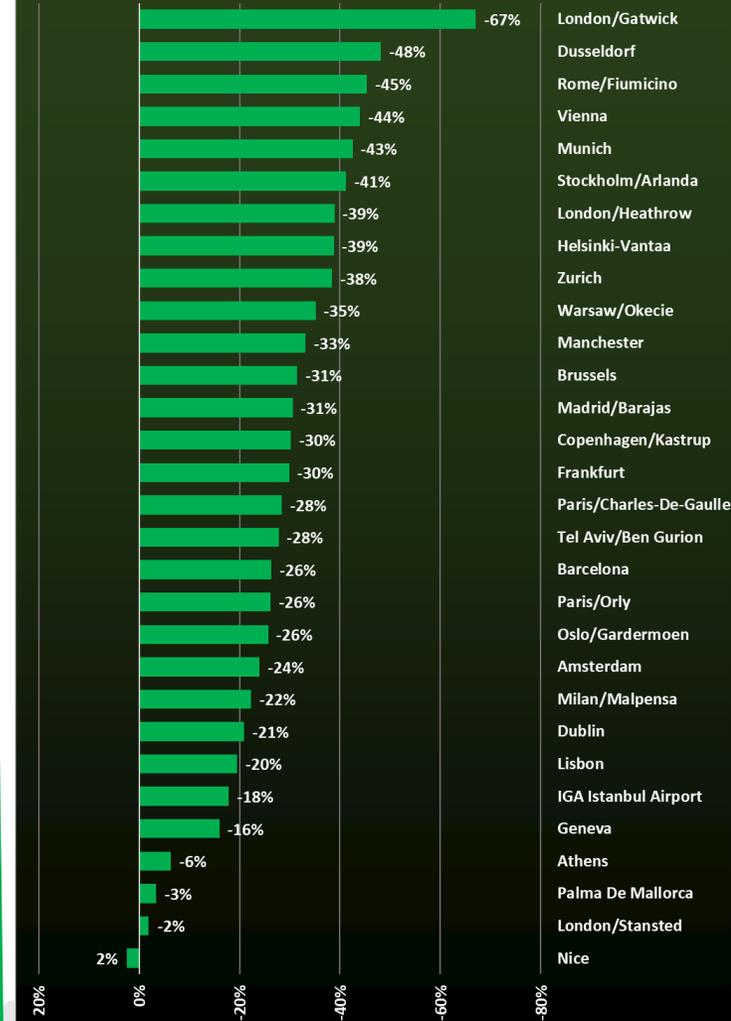
Top 40 Airports (Dep/Arr flights)
Traffic on Wed 24-11-2021 and evolution compared to Wed 10-11-2021



- ✦ Highest increases in flights for **Geneva (+19%)**, **London/Heathrow (+5%)** and **IGA Istanbul (+3%)**.
- ✦ Highest decrease for **Vienna (-15%)**, **Paris/Orly (-14%)** and **Berlin/Brandenburg (-14%)**.
- ✦ Traffic levels ranging from **-67%** (Gatwick) to **+2%** (Nice), compared to 2019.

Airports in EUROCONTROL Network
(compared with equivalent days in 2019)

Daily Variation (IFR Dep/Arr Flights) - Wed 24 Nov 2021





Latest news

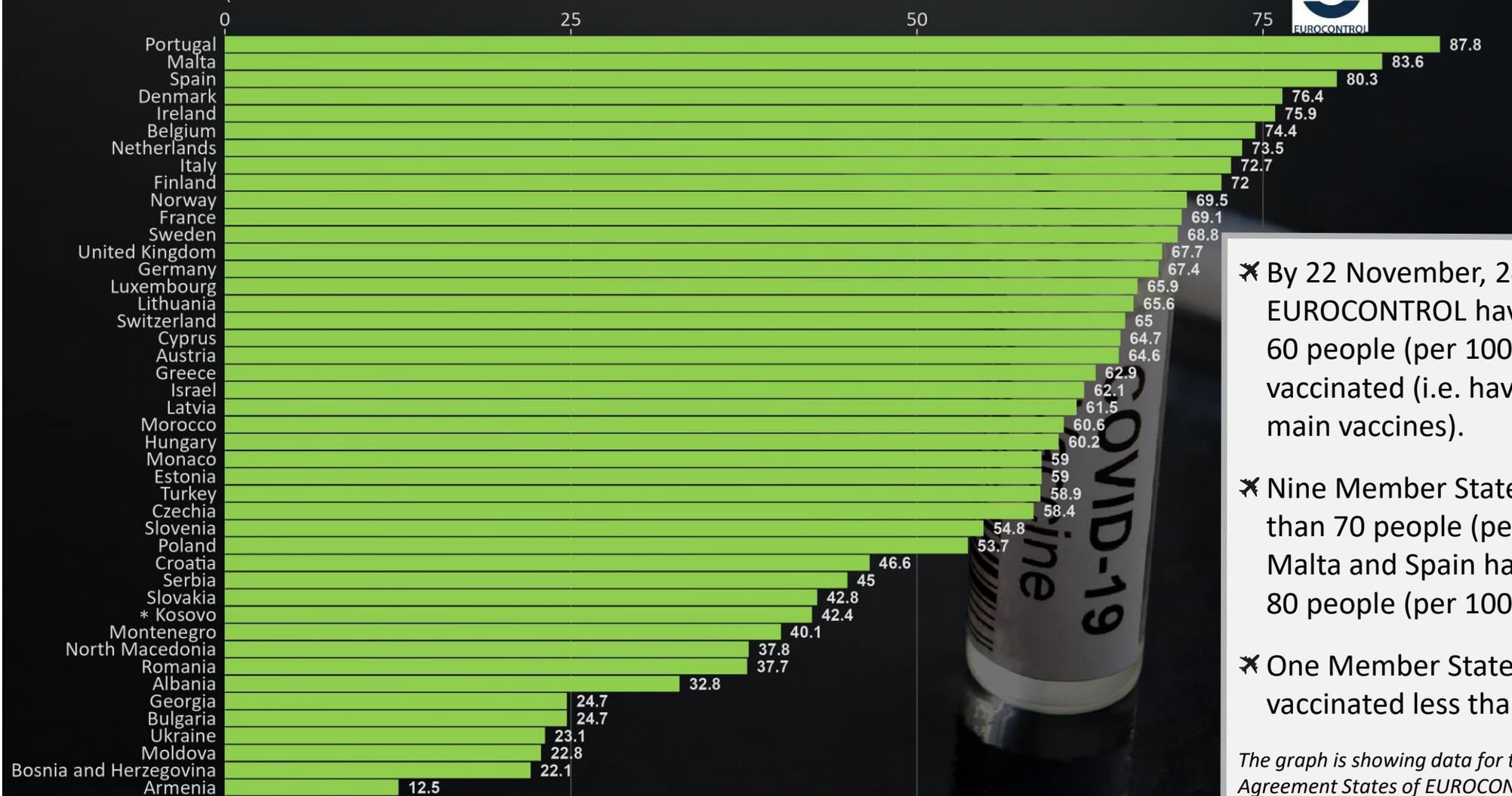
- ✘ **Aena** reports 17.3 million passengers in October across its airport network, 30% lower than in 2019.
- ✘ **Amsterdam Schiphol Airport** reports 3.7 million passengers in October, 42% down on 2019 (Europe -35%, Intercontinental -58%).
- ✘ **Assaeroporti** reported 10.7 million passengers across Italian airports in October, 37% fewer than in 2019.
- ✘ **Berlin Brandenburg Airport** expecting second runway to be operational by the middle of December and Terminal 2 by Easter 2022.
- ✘ **Brussels Airport** reports 1.3 million passengers in October, 43% down on 2019.
- ✘ **Copenhagen Airport** reports 1.6 million passengers in October, 42% down on 2019 (Europe -39%, Intercontinental -76%).
- ✘ **Dubai International Airport** expecting to handle 28.7 million passengers in 2021 and 57 million next year.
- ✘ **Frankfurt Airport** reports 3.4 million passengers in October, 47% down on 2019.
- ✘ **Groupe ADP** reports October passenger number for Paris CDG of 3.2 million, 51% down on 2019 and, for Paris Orly, 2.0 million (-26%).
- ✘ **London Heathrow Airport** reports 3.0 million passengers in October, 56% down on 2019 (Europe -45%, Americas -73%, Middle East -41%, Asia Pacific -76%).

Vaccination updates



People fully vaccinated (per 100 people)

(most recent information available on 22 November 2021)



- ✘ By 22 November, 24 Member States of EUROCONTROL have reported that more than 60 people (per 100 people) were fully vaccinated (i.e. have received 2 doses of the main vaccines).
- ✘ Nine Member States have fully vaccinated more than 70 people (per 100 people) with Portugal, Malta and Spain having fully vaccinated at least 80 people (per 100 people).
- ✘ One Member State of EUROCONTROL has fully vaccinated less than 20 people (per 100 people).

The graph is showing data for the 41 Member and 2 Comprehensive Agreement States of EUROCONTROL.

Source: Our World in Data

*This designation is without prejudice to positions on status, and is in line with UNSCR 1244/99 and the ICJ opinion on the Kosovo declaration of independence.

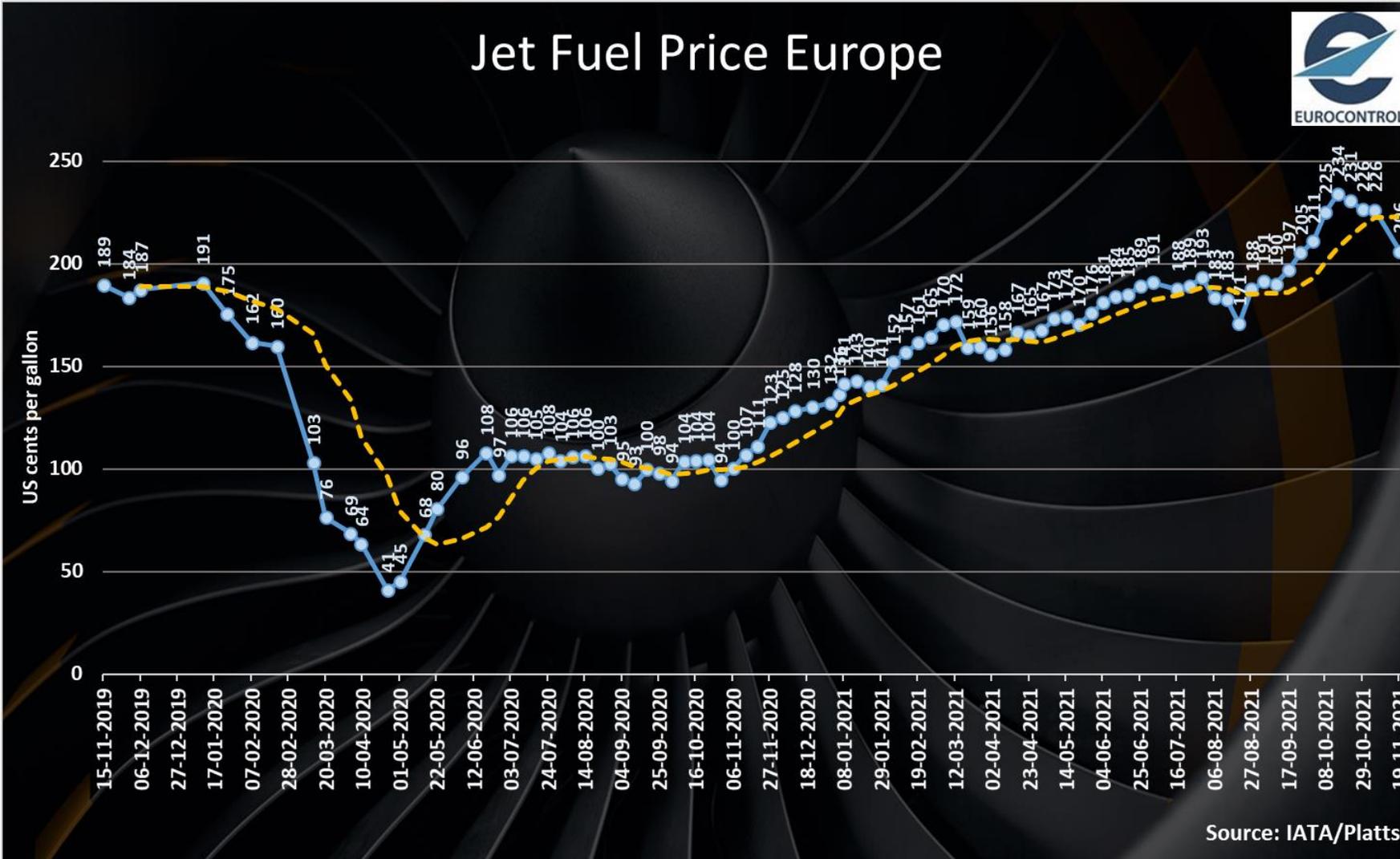
En-Route Air Navigation charges



En-route air navigation charges for the EUROCONTROL Area
Year-to-date amount billed: 3 289 M€ (-51% vs 2019)



- ✘ **EUROCONTROL** has billed **505M€** of en-route charges for October flights.
- ✘ This is **-28%** below the amount billed for the October 2019 flights.
- ✘ On a year-to-date basis, EUROCONTROL billed **3,289M€** which is **-51% vs 2019**



- ✘ Jet fuel prices which averaged 105 cts/gal in 2020 have been increasing since then up to 234 cts/gal early October and recently decreased at 206 cts/gal.
- ✘ Since May, jet fuel prices have been gradually rising, with a sharp increase over the beginning of September 2021, threatening airlines' recovery from the pandemic.

To further assist you in your analysis, EUROCONTROL provides the following additional information on a daily basis (daily updates at 7:00 CET for the first item and 12:00 CET for the second) and every Friday for the last item:

1. EUROCONTROL Daily Traffic Variation dashboard:

www.eurocontrol.int/Economics/DailyTrafficVariation (or via the COVID-19 button on the top of our homepage www.eurocontrol.int)

- This dashboard provides traffic for Day+1 for all European States; for the largest airports; for each Area Control Centre (ACC) and for the largest airline operators.



2. COVID Related-NOTAMS with Network Impact (i.e. summary of airspace restrictions):

<https://www.public.nm.eurocontrol.int/PUBPORTAL/gateway/spec/index.html>

- The Network Operations Portal (NOP) under “Latest News” is updated daily with a summary table of the most significant COVID-19 NOTAMs applicable at 12.00 UTC.



3. NOP Recovery Plan.

<https://www.public.nm.eurocontrol.int/PUBPORTAL/gateway/spec/index.html>

- This report, updated every Friday, is a special version of the Network operation Plan supporting aviation response to the COVID-19 Crisis. It is developed in cooperation with the operational stakeholders ensuring a rolling outlook.



For more information please contact aviation.intelligence@eurocontrol.int



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