

Monthly Network Operations Report

Analysis January 2020



TABLE OF CONTENTS

TABLE OF CONTENTS	2
NOTICE	2
1. TOTAL TRAFFIC	3
2. ATFM DELAY AND ATTRIBUTIONS	6
3. EN-ROUTE ATFM DELAYS	7
En-Route ATFM Delay per Location	7
En-Route ATFM Delay per Delay Group	8
En-Route ATFM Delay per Flight	9
En-Route ATFM Delay Year-To-Date	10
4. AIRPORT/TMA ATFM DELAYS	11
Airport/TMA ATFM Delay per Location	11
Airport/TMA ATFM Delay per Delay Groups	11
Airport/TMA ATFM Delay per Flight	12
Airport/TMA ATFM Delay Year-To-Date	12
5. DAILY EVOLUTION	12
6. ALL AIR TRANSPORT DELAYS (SOURCE: CODA)	13
7. ATFM SLOT ADHERENCE	14
8. SIGNIFICANT EVENTS AND ISSUES	14
Planned Events	14
ACC	14
Airports	15
Disruptions	15
9. NM ADDED VALUE	16

NOTICE

Traffic and Delay Comparisons

All traffic and delay comparisons are between report month and equivalent month of previous year, unless otherwise stated.

Graphics

All graphs in sections 2, 3 and 4 are in average minutes of ATFM delay per day, unless otherwise stated.

NM Area

All figures presented in this report are for the geographical area that is within Network Manager's responsibility (NM area). For further information on the NM Area go to the Reporting Assumptions and Descriptions document available on the EUROCONTROL website at <https://www.eurocontrol.int/publication/reporting-assumptions-and-descriptions>

Regulation Reason Groupings

The table below shows the colour coding used in the report charts.

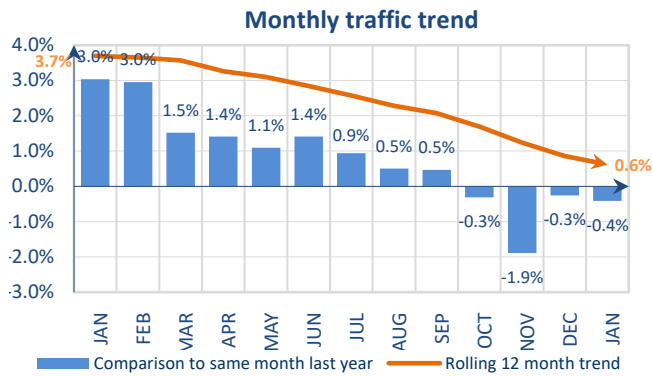
EN-ROUTE CAPACITY (ATC)	AIRPORT CAPACITY (ATC)
EN-ROUTE STAFFING (ATC)	AIRPORT STAFFING (ATC)
EN-ROUTE DISRUPTIONS (ATC)	AIRPORT DISRUPTIONS (ATC)
EN-ROUTE CAPACITY	AIRPORT CAPACITY
EN-ROUTE DISRUPTIONS	AIRPORT DISRUPTIONS
EN-ROUTE EVENTS	AIRPORT EVENTS
EN-ROUTE WEATHER	AIRPORT WEATHER

For further information on the regulation reason groupings, go to the Reporting Assumptions and Descriptions document available on the EUROCONTROL website at <https://www.eurocontrol.int/network-performance>.

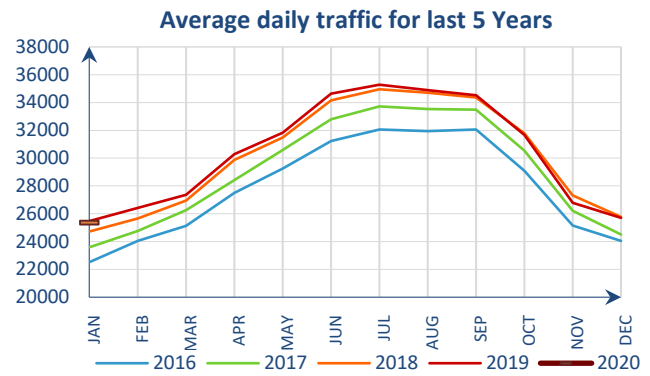
ATFM Statistics dashboard

More detailed information available via the [ATFM Statistics dashboard](#).

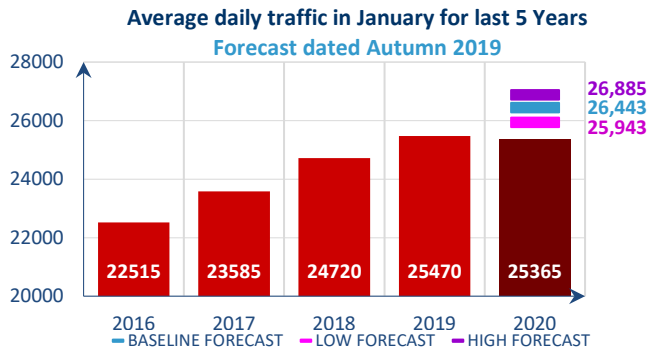
1. TOTAL TRAFFIC



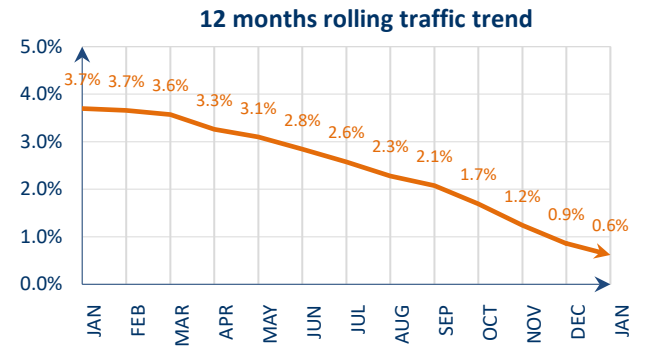
Traffic decreased by 0.4% in January 2020ⁱ.



Average daily traffic in January 2020 was 25,365.



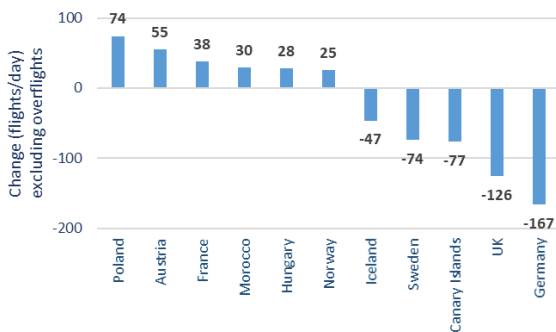
The traffic decrease of 0.4% for January was below the low forecast published in Autumn 2019.



This graph shows the variation in average daily traffic for the last 12-month period relative to the previous 12 months. The average daily traffic from February 2019 to January 2020 was 0.6% higher than the average from February 2018 to January 2019.

European flights continued to decrease for the fourth consecutive month in January, as the factors (political unrest, economic slowdown, B737 MAX, airlines failures consequences...) which influenced the decline during the last quarter of 2019 remained.

Main changes to traffic on the European network



As a result, only two states added more than 50 daily flights to the European local traffic growthⁱⁱ (owing to its flows to and from):

- **Poland (+74):** internal flow (+14), Norway (+9), Ukraine (+9), UK (+7);
- **Austria (+55):** The Netherlands (+8), Israel (+5), Greece (+5), Portugal excl. Azores (+4), Italy (+4);

Four states contributed to adding at least 25 daily flights (flows in both directions) to the network and they were:

- **France (+38):** internal flow (+35), Morocco (+8), Turkey (+6), Italy (+6);
- **Morocco (+30):** internal flow (+9), France (+8), Spain (+4), Turkey (+4);
- **Hungary (+28):** UK (+8), Italy (+4), Germany (+3);
- **Norway (+25):** internal flow (+14), Poland (+9), UK (+3), Austria (+3);

Conversely, the North-West European flow continued to record fewer daily flights affecting mostly the domestic traffic of Germany, UK and Sweden:

- **Germany (-167):** UK (-39), internal flow (-30), Canary Islands (-30), Spain (-28), Switzerland (-20);
- **UK (-126):** internal flow (-40), Germany (-39), Canary Islands (-17);
- **Canary Islands (-77):** Germany (-30), UK (-17);
- **Sweden (-74):** internal flow (-36), Germany (-9), UK (-6), Finland (-6);
- **Iceland (-47):** North America (-14), UK (-8), internal flow (-8).

The top five external partners in average daily flights on flows in both directions were the United States (827 flights, up 0.5%), the Russian Federation (726 flights, down 0.3%), the United Arab Emirates (349 flights, down 0.2%), Egypt (291 flights, up 12.3%), and Qatar (218 flights, up 7.0%).

The airlines which added the most flights to the European network on a daily basis were Wizz Air Hungary (+73 flights), Ryanair (+49 flights), Logan Air (+34 flights), KLM (+27 flights) and Jet2.com (+23 flights)

For more information on EUROCONTROL Statistics and Forecasts, go to: <https://www.eurocontrol.int/dashboard/statfor-interactive-dashboard>

Four of the top ten airports had positive traffic growth. Overall, the largest traffic increases in January 2020 were recorded at Tel Aviv/Ben Gurion, Budapest, Vienna, Casablanca and Milano/Malpensa airports. The largest traffic decreases were at Berlin/Tegel, Palma de Mallorca, Stockholm/Arlanda, Rome/Fiumicino and Gran Canaria airports. French ATC Industrial action throughout the month partially explains the traffic decrease at Paris/Orly, Paris/Charles de Gaulle and Lyon airports.

Three of the top ten aircraft operators flew more compared to January 2019. The operators with the highest traffic growth were Laudamotion, Loganair, Jet2.com, Air France, Netjets and Wizzair.

Norwegian Air International, Ukraine International, Flybe, Eurowings and Norwegian Air Shuttle recorded the highest traffic decreases.

The increase in the number of flights for Air France follows the reintegration of HOP flights into AFR code. easyJet Europe commenced use of their second operator code EJU at the start of the IATA summer season, resulting in a shift of flights from the EZY code. Jet2.com saw new aircraft join their fleet. The decrease in flights for Norwegian Air International follows company restructuring, as well as a reduction in flights following the Boeing 737 Max grounding.

N°	ADEP	ADEP NAME	202001	%	N°	ICAO	AIR OPERATOR	202001	%
1	EHAM	AMSTERDAM/SCHIPHOL	619	1.1%	1	RYR	RYANAIR	1932	2.8%
2	EGLL	LONDON/HEATHROW	615	0.5%	2	DLH	DEUTSCHE LUFTHANSA	1274	-1.4%
3	LFPG	PARIS CH DE GAULLE	610	-0.5%	3	THY	TURKISH AIRLINES	1218	-2.8%
4	EDDF	FRANKFURT MAIN	589	-3.4%	4	AFR	AIR FRANCE	1012	22.1%
5	LTFM	ISTANBUL NEW AIRPORT	563	0.0%	5	SAS	SCANDINAVIAN AIRLINES SYSTEM	685	-0.2%
6	LEMD	ADOLFO SUAREZ MADRID-BARAJA	537	1.2%	6	KLM	KLM ROYAL DUTCH AIRL	638	4.5%
7	EDDM	MUENCHEN	496	-2.0%	7	BAW	BRITISH AIRWAYS	620	-0.7%
8	LEBL	BARCELONA/EL PRAT	378	-2.3%	8	EZY	EASYJET	605	-47.5%
9	LIRF	ROMA/FIUMICINO	342	-7.9%	9	WZZ	WIZZ AIR	525	16.3%
10	LOWW	WIEN SCHWEGHAT	332	7.0%	10	EJU	EASY JET EUROPE AIRLINE GMBH	514	0.0%
11	LSZH	ZURICH	324	-5.3%	11	AZA	ALITALIA	484	-4.2%
12	ENGM	OSLO/GARDERMOEN	312	-0.9%	12	EWG	EUROWINGS AG	478	-14.3%
13	EKCH	KOBENHAVN/KASTRUP	309	-1.5%	13	PGT	PEGASUS HAVA TASI	462	5.1%
14	EGKK	LONDON/GATWICK	301	-5.6%	14	VLG	VUELING AIRLINES SA	426	-7.9%
15	LTFJ	ISTANBUL/SABIHA GOKCEN	298	-0.1%	15	SWR	SWISS INTERNATIONAL	376	-0.2%
16	ESSA	STOCKHOLM-ARLANDA	271	-8.4%	16	LOT	LOT-POLISH AIRLINES	361	5.1%
17	LPPT	LISBOA	269	1.9%	17	FIN	FINNAIR OY	355	4.8%
18	LFPO	PARIS ORLY	269	-3.9%	18	TAP	TAP AIR PORTUGAL	347	2.1%
19	EBBR	BRUSSELS NATIONAL	267	-1.4%	19	WIF	WIDEROE	321	4.0%
20	EIDW	DUBLIN	267	-2.9%	20	AFL	AEROFLOT-RUSSIAN	317	-2.2%
21	EDDL	DUESSELDORF	253	-7.0%	21	AUA	AUSTRIAN AIRLINES	304	2.8%
22	EFHK	HELSINKI-VANTAA	252	-0.9%	22	NAX	NORWEGIAN AIR SHUTTLE	295	-11.3%
23	LIMC	MILANO MALPENSA	252	5.7%	23	BEE	JERSEY EUROPEAN TIA FLYBE	290	-14.5%
24	EPWA	CHOPINA W WARSZAWIE	251	4.6%	24	QTR	QATAR AIRWAYS COMP.	251	4.0%
25	LSGG	GENEVA	244	-1.0%	25	AEA	AIR EUROPA	247	-4.7%
26	EGSS	LONDON/STANSTED	231	-4.5%	26	IBE	IBERIA	240	1.0%
27	LGAV	ATHINA/ELEFTHERIOS VENIZELOS	220	0.9%	27	UAE	EMIRATES	204	1.8%
28	EGCC	MANCHESTER	212	-3.7%	28	RAM	ROYAL AIR MAROC	203	4.6%
29	EDDT	BERLIN-TEGEL	212	-11.4%	29	ANE	AIR NOSTRUM	195	-2.6%
30	LLBG	TEL AVIV/BEN GURION	199	13.1%	30	BCS	DHL EXPRESS	179	-0.8%
31	GCLP	GRAN CANARIA	168	-7.3%	31	BEL	BRUSSELS AIRLINES	176	-2.0%
32	EDDH	HAMBURG	166	-5.9%	32	EIN	AER LINGUS TEORANTA	170	-5.3%
33	LKPR	PRAHA RUZYNE	162	1.6%	33	IBK	NORWEGIAN AIR INTERNATIONAL	162	-34.1%
34	EDDK	KOELN-BONN	160	2.0%	34	BTI	AIR BALTIC CORPORAT.	146	4.6%
35	EGGW	LONDON/LUTON	156	-1.2%	35	OAL	OLYMPIC	137	8.5%
36	LHPB	BUDAPEST LISZT FERENC INT.	151	10.3%	36	LOG	LOGANAIR	130	36.1%
37	LROP	BUCURESTI/HENRI COANDA	151	0.6%	37	AUI	UKRAINE INTERNATIONAL	111	-26.4%
38	EGPH	EDINBURGH	148	2.3%	38	EZS	EASY JET SWITZERLAND	111	-4.4%
39	LIML	MILANO LINATE	145	0.2%	39	EXS	JET2.COM	110	26.6%
40	EDDS	STUTTGART	145	2.7%	40	TRA	TRANSavia.COM	109	1.8%
41	LFLL	LYON SAINT-EXUPERY	140	-1.4%	41	NJE	NETJETS	108	17.0%
42	LFMN	NICE-COTE D'AZUR	136	2.8%	42	UAL	UNITED AIRLINES INC.	107	3.4%
43	LEMG	MALAGA/COSTA DEL SOL	130	-2.2%	43	IBS	IBERIA EXPRESS	106	8.6%
44	GMMN	CASABLANCA/MOHAMMED	129	6.3%	44	DAH	AIR ALGERIE	106	4.7%
45	UKBB	KYIV/BORYSPIL	124	1.4%	45	AEI	AEGEAN AIRLINES	102	7.0%
46	LFML	MARSEILLE PROVENCE	124	4.3%	46	IBB	BINTER CANARIAS	100	0.9%
47	LFBO	TOULOUSE BLAGNAC	124	4.9%	47	CFE	CITYFLYER EXPRESS	99	-0.7%
48	LEPA	PALMA DE MALLORCA	123	-9.8%	48	DAL	DELTA AIR LINES INC.	97	2.6%
49	LIME	BERGAMO/ORIO ALSERIO	121	0.0%	49	LDM	LAUDAMOTION GMBH	97	74.5%
50	EGBB	BIRMINGHAM	117	-4.3%	50	BHL	BRISTOW NORWAY AS	94	8.9%
TOTALS and % TOTAL TRAFFIC			13114	58.9%	TOTALS and % TOTAL TRAFFIC			17736	69.9%

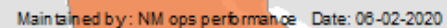
Top 50 Departure Airports with average daily traffic and percentage compared to same period of previous year

Top 50 Air Operators with average daily traffic and percentage compared to same period of previous year

N°	ICAO	AIR OPERATOR	202001	%
		Unidentified	1669	9.9%

Average daily traffic and percentage compared to same period of previous year for all flights where Air Operators can't be identified

Percentage change in traffic January 2020 compared to the same month last year

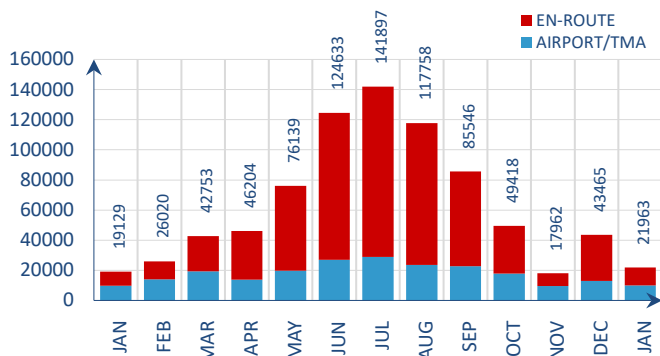


Nº	ASP ID	ASP NAME	202001	%	Nº	ASP ID	ASP NAME	202001	%
1	BIRDACC	REYKJAVIK ACC	321	-4.5%	39	LFBACC	BORDEAUX ACC	2016	-0.3%
2	DAAAACC	ALGER ACC	456	-1.5%	40	LFEACC	REIMS ACC	2204	-3.0%
3	DTTCACC	TUNIS ACC	281	7.3%	41	LFFFALL	PARIS ACC	2888	-1.4%
4	EBBUACC	BRUSSELS ACC	1433	-2.7%	42	LFMMACC	MARSEILLE ACC	2440	0.3%
5	EDGGALL	LANGEN ACC	2999	-2.4%	43	LFMMAPP	MARSEILLE TMA	697	6.4%
6	EDMMACC	MUENCHEN ACC	2767	0.7%	44	LFRRACC	BREST ACC	2150	-9.2%
7	EDUUUAC	KARLSRUHE UAC	4365	-1.6%	45	LGGGACC	ATHINAI ACC	1163	18.9%
8	EDWWACC	BREMEN ACC	1455	-6.7%	46	LGMACC	MAKEDONIA ACC	894	14.5%
9	EDYYUAC	MAASTRICHT UAC	4315	-3.6%	47	LHCCACC	BUDAPEST ACC	1748	-4.0%
10	EETTACC	TALLIN ACC	490	-7.7%	48	LBBACC	BRINDISI ACC	717	10.5%
11	EFESACC	TAMPERE ACC	548	0.6%	49	LIMMACC	MILANO ACC	2003	4.2%
12	EGGXOAC	SHANWICK OACC	1170	2.2%	50	LIPPACC	PADOVA ACC	1499	5.1%
13	EGFXALL	SCOTTISH ACC	2261	-2.1%	51	LIRRACC	ROMA ACC	1861	1.4%
14	EGTTACC	LONDON ACC	4684	-2.1%	52	LJLAACC	LIUBLJANA ACC	650	0.9%
15	EGTTTC	LONDON TMA TC	3328	-1.7%	53	LKAAACC	PRAHA ACC	1743	-8.7%
16	EHAACC	AMSTERDAM ACC	1421	0.6%	54	LLLLACC	TEL-AVIV ACC	489	4.7%
17	EIDWACC	DUBLIN ACC	564	-3.1%	55	LMMMACC	MALTA ACC	305	9.7%
18	EISNACC	SHANNON ACC	1060	3.9%	56	LOVVACC	WIEN ACC	2034	5.4%
19	EKDKACC	KOBENHAVN ACC	1390	0.8%	57	LPPCACC	LISBOA ACC	1438	-5.6%
20	ENBDACC	BODO ACC	541	-0.2%	58	LPPOOAC	SANTA MARIA OAC	423	6.8%
21	ENOSACC	OSLO ACC	889	-0.3%	59	LQSBACC	BH ACC	733	839.7%
22	ENSVACC	STAVANGER ACC	591	5.5%	60	LRBBACC	BUCURESTI ACC	1547	-5.7%
23	EPWWACC	WARSAWA ACC	2050	4.8%	61	LSAGACC	GENEVA ACC	1523	-0.6%
24	ESMMACC	MALMO ACC	1373	-1.7%	62	LSAZACC	ZURICH ACC	1809	0.6%
25	ESOSACC	STOCKHOLM ACC	1011	-3.7%	63	LTAACC	ANKARA ACC	3112	-6.3%
26	EVRRACC	RIGA ACC	681	-0.3%	64	LTBBACC	ISTANBUL ACC	1899	0.3%
27	EYVCACC	VILNIUS ACC	604	1.3%	65	LUUUACC	CHISINAU ACC	106	3.9%
28	GCCCACC	CANARIAS ACC	966	-5.9%	66	LWSSACC	SKOPJE ACC	366	26.2%
29	GMMMACC	CASABLANCA ACC	1194	-4.6%	67	LYBAACC	BEOGRAD ACC	1437	10.1%
30	HECCACC	CAIRO ACC	828	24.5%	68	LZBBACC	BRATISLAVA ACC	1004	-13.0%
31	LAAAACC	TIRANA ACC	418	12.1%	69	OLBBACC	BEIRUT ACC	151	10.2%
32	LBSRACC	SOFIA ACC	1734	-3.1%	70	UDDACC	YEREVAN ACC	154	-7.8%
33	LCCCACC	NICOSIA ACC	1045	15.5%	71	UGGGACC	TBILISI ACC	384	-1.8%
34	LDZOACC	ZAGREB ACC	1213	9.6%	72	UKBVACC	KYIV FIR/ACC	393	-0.3%
35	LECBACC	BARCELONA ACC	1745	-0.5%	73	UKDVACC	DNIPRO ACC	57	23.9%
36	LECMALL	MADRID ACC	2716	-3.4%	74	UKLVACC	L'VIV ACC	354	10.6%
37	LECPACC	PALMA ACC	345	-6.3%	75	UKOVACC	ODESA ACC	223	1.8%
38	LFCSACC	SEVILLA ACC	1014	3.2%	76	UMMVACC	MINSK ACC	777	4.4%

NM Monthly Network Operations Report - Analysis – January 2020

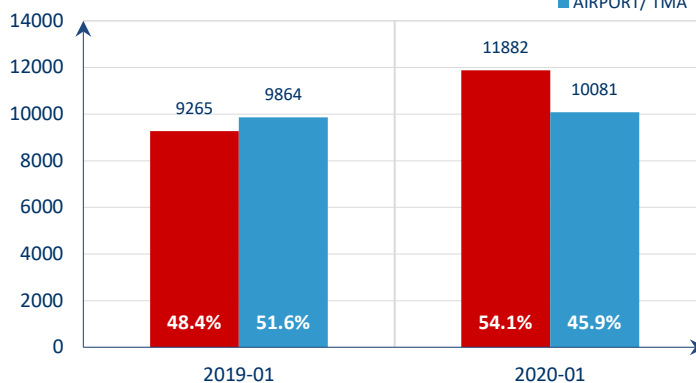
2. ATFM DELAY AND ATTRIBUTIONS

Average daily ATFM delays



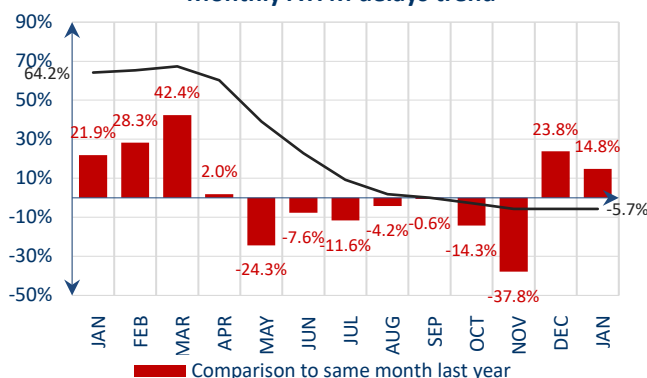
Total ATFM delays increased by 14.8% in January 2020.

Average daily ATFM delays



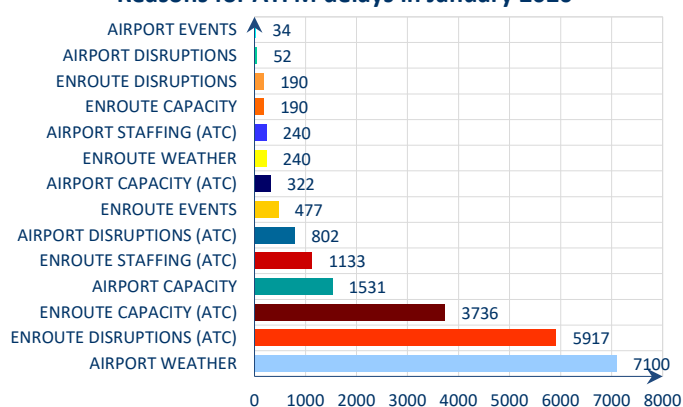
En-route ATFM delays increased by 28.3% and airport ATFM delays increased by 2.2%.

Monthly ATFM delays trend



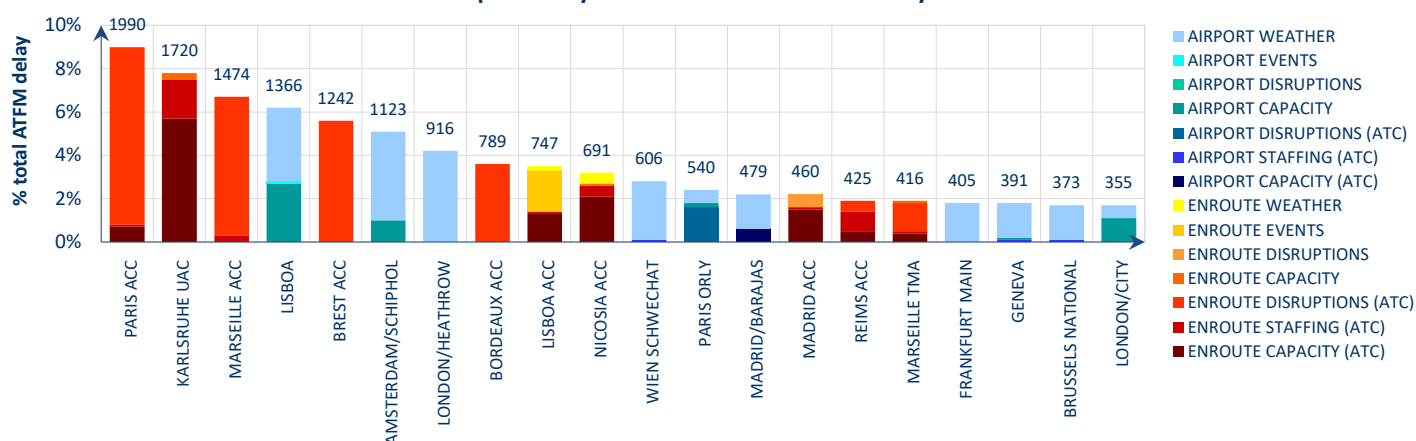
The rolling 12-month trend shows that ATFM delay was 5.7% lower during the period February 2019 – January 2020 compared to February 2018 – January 2019.

Reasons for ATFM delays in January 2020



Airport weather (32.3%), en-route ATC disruptions (26.9%) and en-route ATC capacity (17.0%) were the main causes of ATFM delays in January 2020.

Top 20 delay reference locations in January 2020

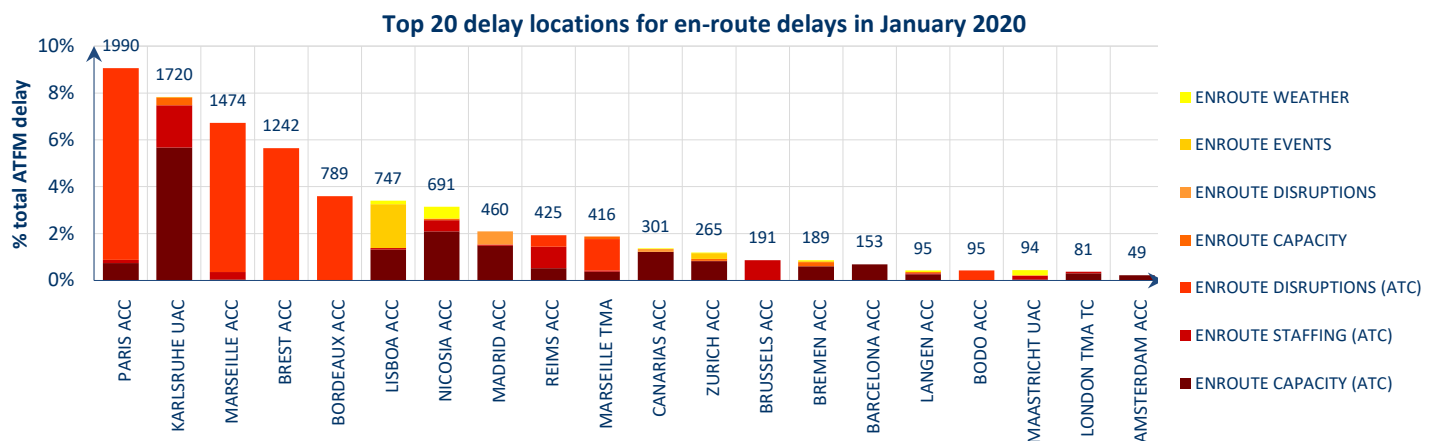
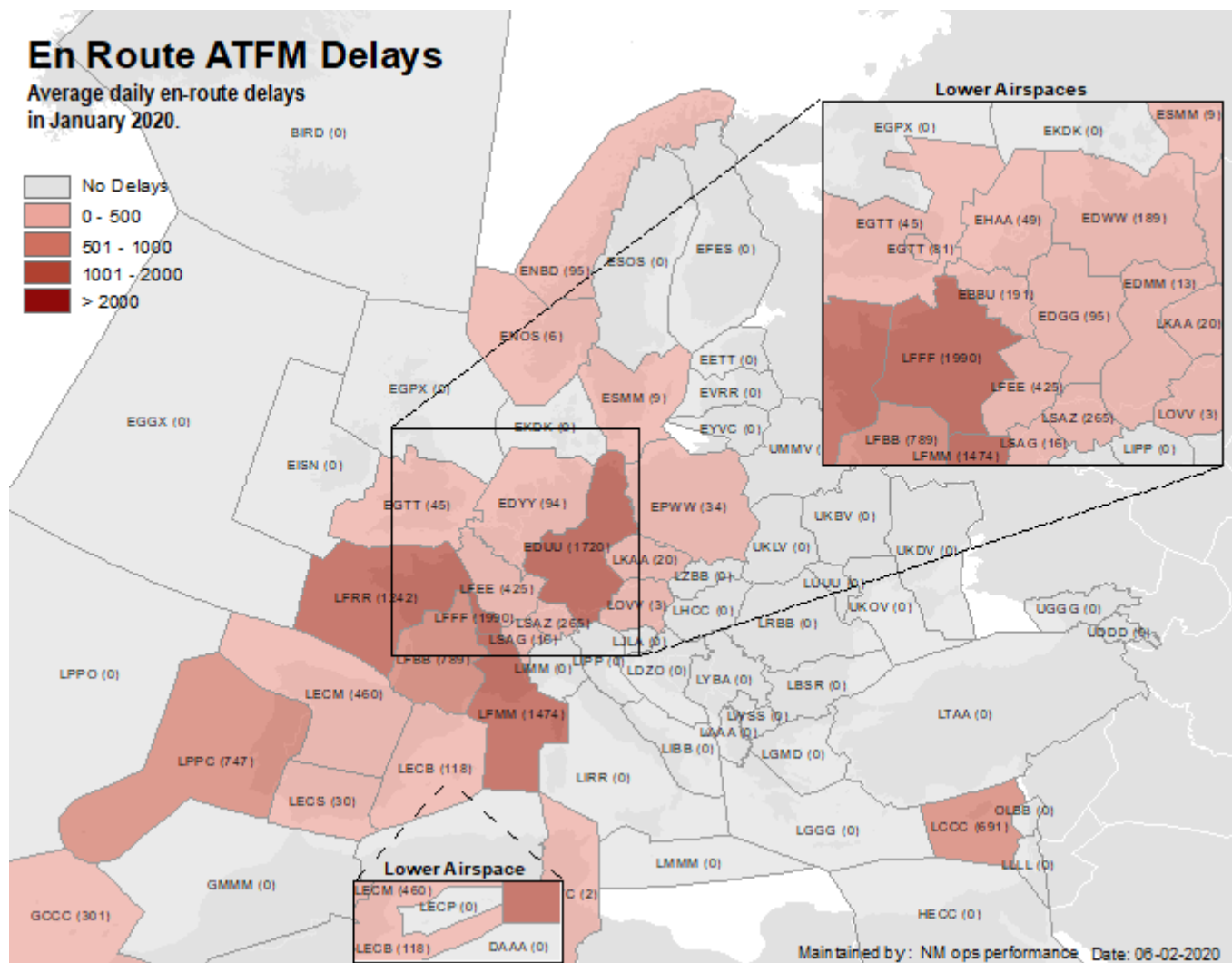


These are the top 20 delay generating locations for the reporting month with respect to total ATFM delays. Figures are the average daily delays in minutes for the individual locations.

- Several French ATC industrial actions throughout the month generated high delays in French ACCs such as Paris, Marseille, Brest and Bordeaux;
- Low visibility impacted operations at London/Heathrow, Amsterdam/Schiphol, Lisbon and Vienna airports;
- High delay due to ATC capacity in Karlsruhe UAC;
- Planned migration to a provisional OPS room in Lisbon ACC generated delays.

3. EN-ROUTE ATFM DELAYS

EN-ROUTE ATFM DELAY PER LOCATION



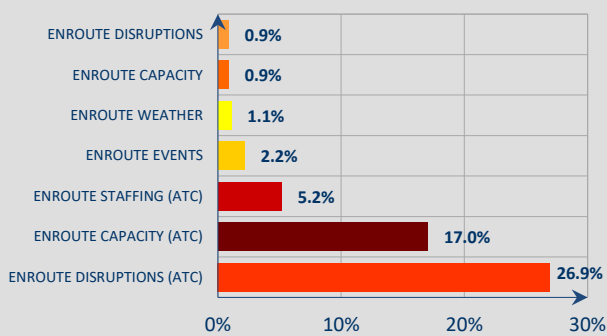
These are the top 20 en-route ATFM delay generating locations for the reporting month with respect to total ATFM delays. Figures are the average daily delays in minutes for the individual locations.

The top 20 en-route ATFM delay locations generated **52.2%** of the monthly total (network) ATFM delay.
The top 5 en-route ATFM delay locations generated **32.9%** of the monthly total (network) ATFM delay.

More detailed information available in the Airspace dashboard via the [ATFM Statistics dashboard](#).

EN-ROUTE ATFM DELAY PER DELAY GROUP

Reasons for en-route delays in January 2020



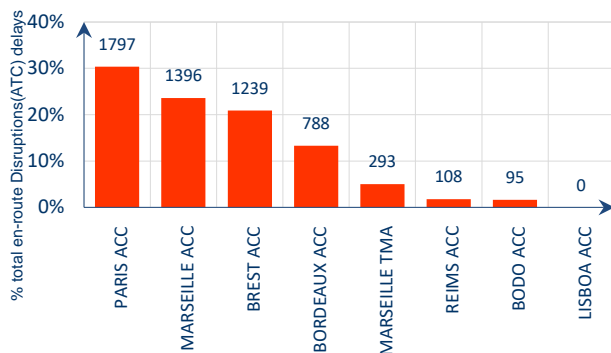
En-route ATFM delays accounted for 54.1% of all ATFM delays. Most of this delay was caused by en-route ATC disruptions, en-route ATC capacity and en-route ATC staffing as explained in detail below. The other causes were:

En-route events: Planned migration to a provisional OPS room in Lisbon ACC generated delays. World economic forum in Davos from 21-24 January impacted operations in Zurich ACC;

En-route weather: Strong winds and turbulence impacted operations in Nicosia, Maastricht and Lisbon ACCs;

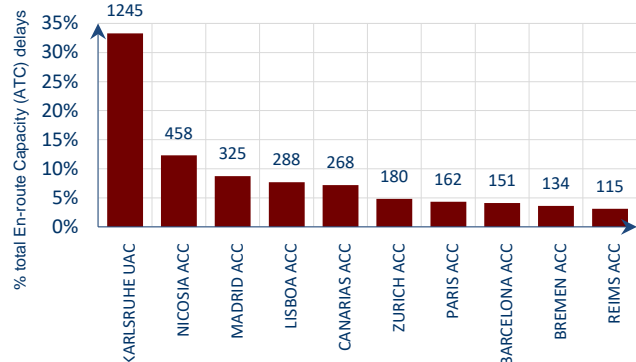
En-route capacity: Military exercises in Maastricht UAC generated delays.

Top en-route Disruption (ATC) delays in January 2020



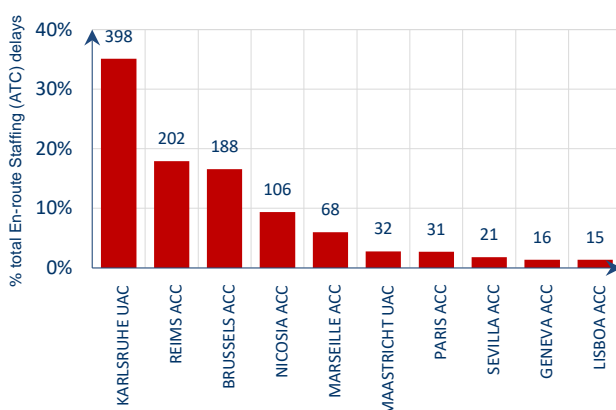
French ATC industrial action throughout the month generated high delays in French ACCs.

Top en-route Capacity (ATC) delays in January 2020



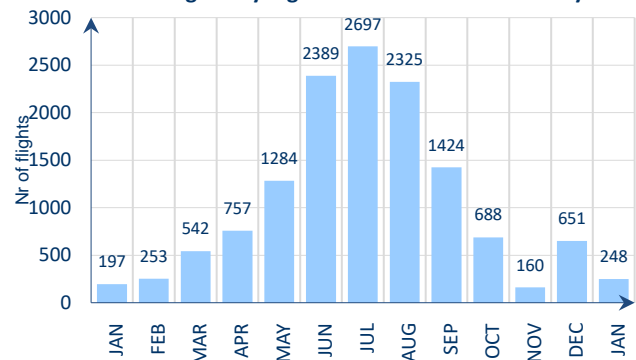
Karlsruhe UAC was the biggest generator of ATC capacity delays with a total of 38,581 minutes for January.

Top en-route Staffing (ATC) delays in January 2020



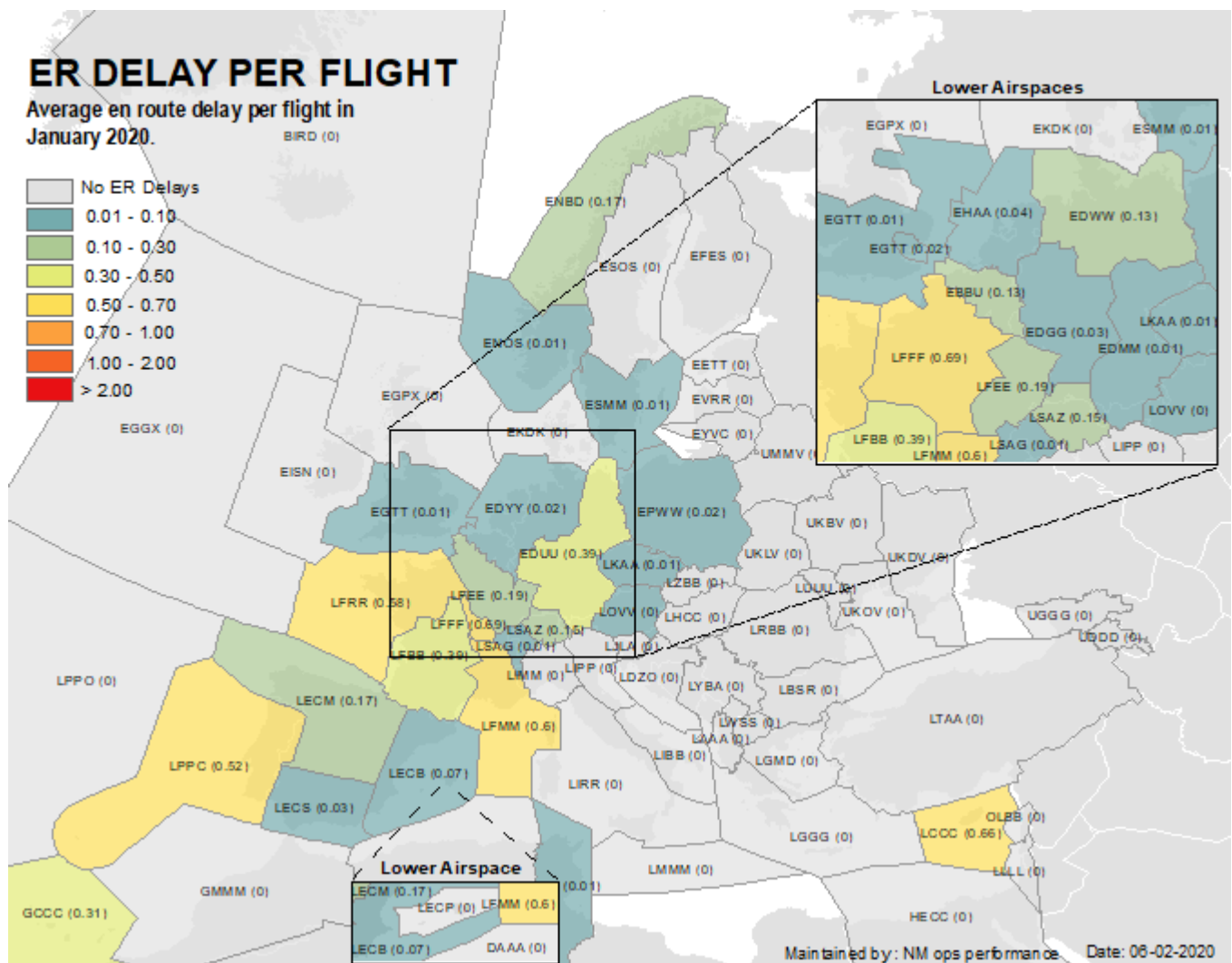
Several staffing issues throughout the month in Karlsruhe UAC generated a total of 12,326 minutes of ATFM delay.

Average daily flights >= 15 min en-route delay

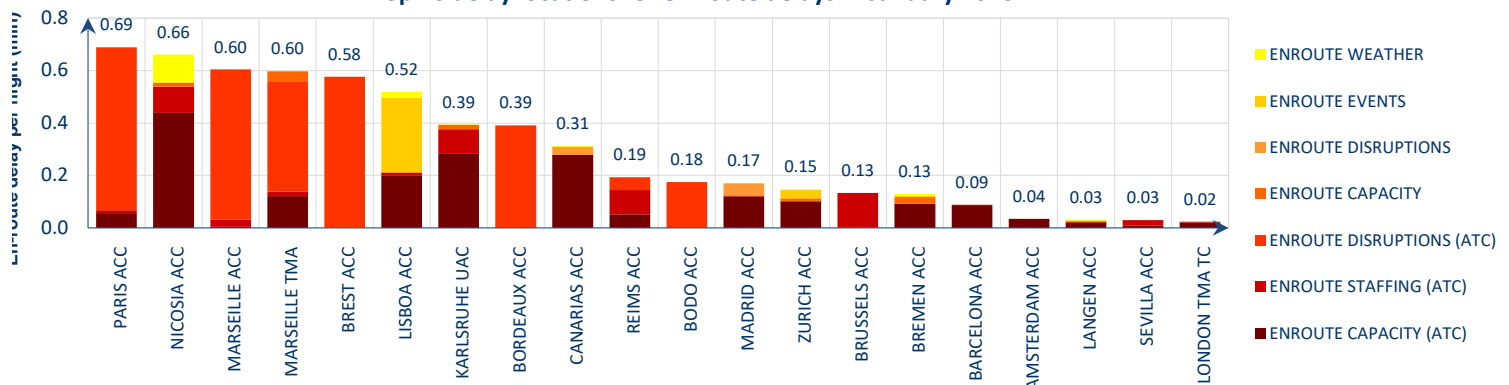


The average daily flights with an en-route ATFM delay of at least 15 minutes increased from 197 flights/day in January 2019 to 248 flights/day in January 2020, which represents 1.0% of all traffic.

EN-ROUTE ATFM DELAY PER FLIGHT



Top 20 delay locations for en-route delays in January 2020



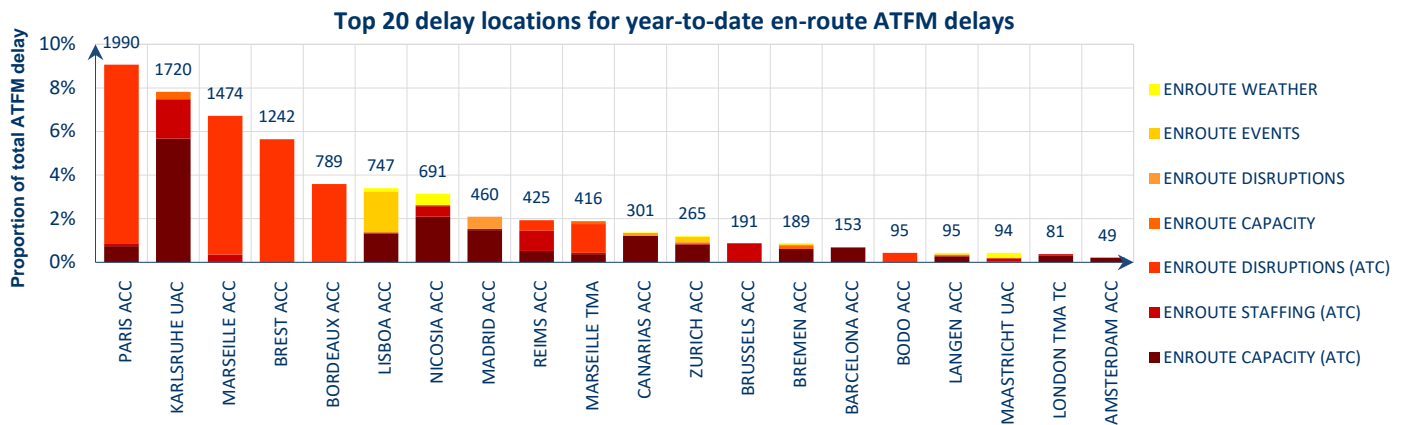
These are the top 20 average en-route ATFM delay per flight generating locations for the reporting month. Figures are the average en-route ATFM delay per flight in minutes for the individual locations.

High en-route ATC disruptions delays in French ACCs due to several ATC industrial actions throughout the month.

Karlsruhe UAC en-route ATFM delay/flight decreased from 1.02 min/flight in December 2019 to 0.39 min/flight in January 2020 due to fewer ATC capacity and staffing issues;

Madrid ACC en-route ATFM delay/flight decreased from 0.73 min/flight in December 2019 to 0.17 min/flight in January 2020 due to fewer ATC capacity issues.

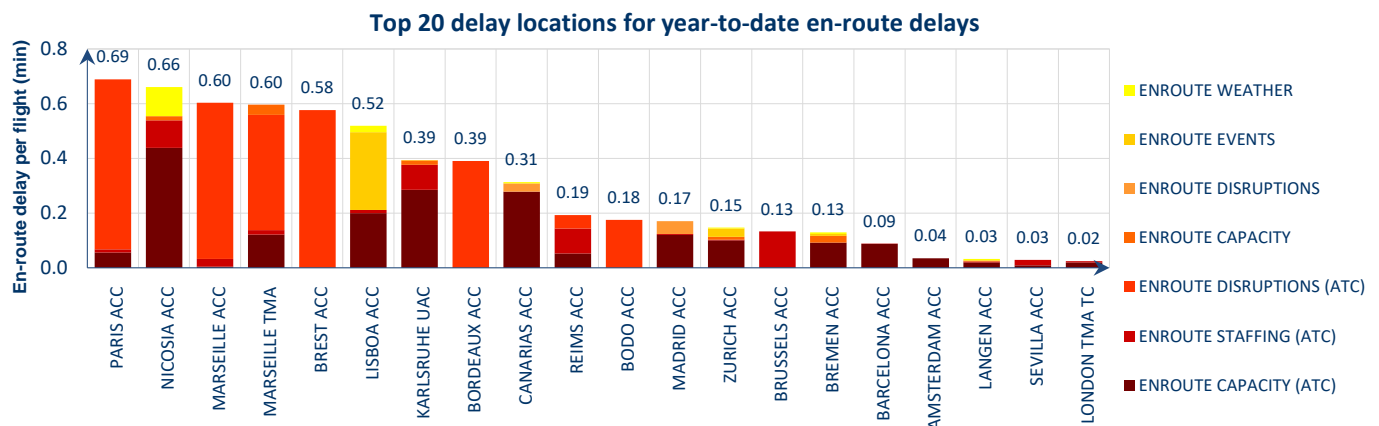
EN-ROUTE ATFM DELAY YEAR-TO-DATE



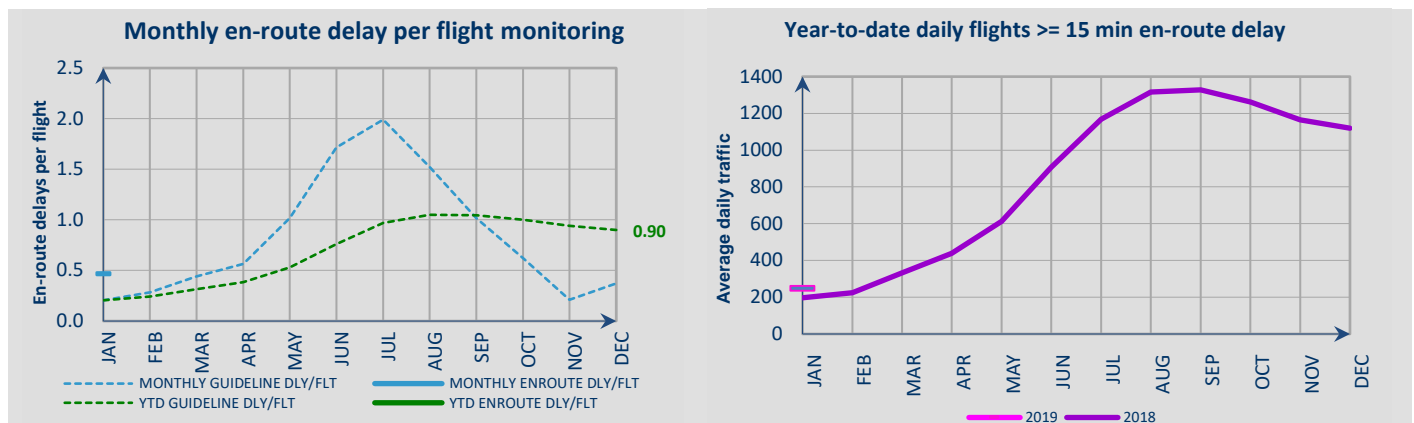
These are the top 20 en-route delay locations for 2020 with respect to the total ATFM delay. Figures are the average daily en-route delay in minutes for the individual locations.

The top 20 en-route delay locations generated **52.2%** of the total ATFM (network) delay.

The top 5 en-route delay locations generated **32.9%** of the total ATFM (network) delay.



These are the top 20 average en-route ATFM delay per flight generating locations in 2020. Figures are the average daily en-route delay in minutes per flight for the individual locations.



Reporting month: The average en-route ATFM delay per flight in the NM areaⁱⁱⁱ in January was 0.47 min/flt, which is above the corresponding monthly guideline^{iv} value of 0.21 min/flt.

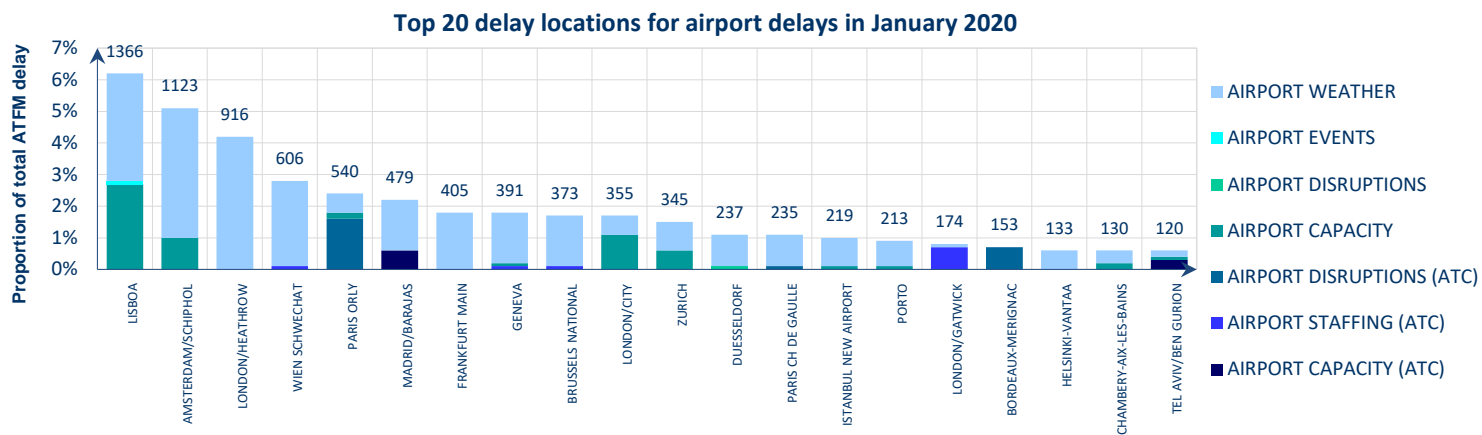
An average of 248 flights/day had an en-route ATFM delay of at least 15 minutes in 2020. The corresponding figure in 2019 was 197 flights/day.

The top 3 locations for flights with 15 minutes or more en-route ATFM delays (year-to-date) are:

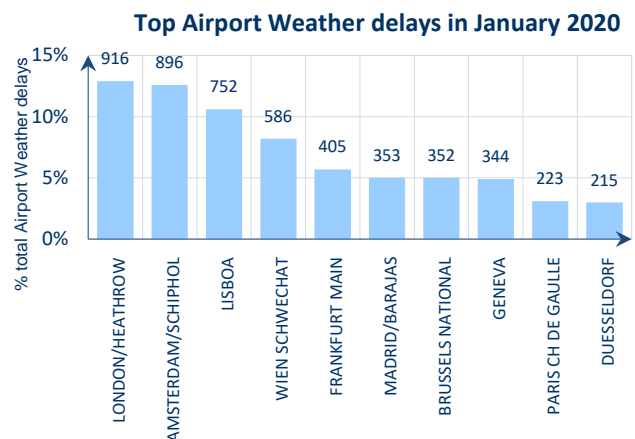
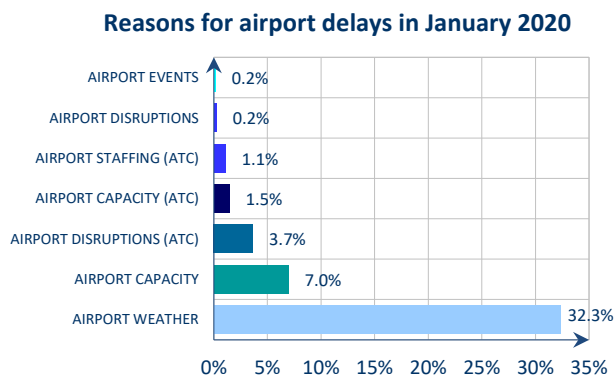
- Paris ACC with 47 flights/day;
- Marseille ACC with 41 flights/day;
- Brest ACC with 30 flights/day.

4. AIRPORT/TMA ATFM DELAYS

AIRPORT/TMA ATFM DELAY PER LOCATION

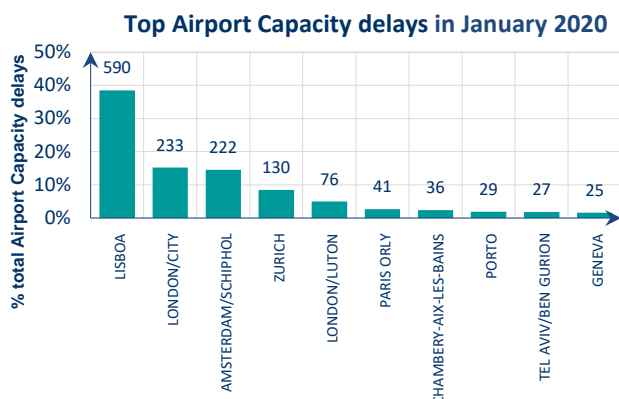


AIRPORT/TMA ATFM DELAY PER DELAY GROUPS

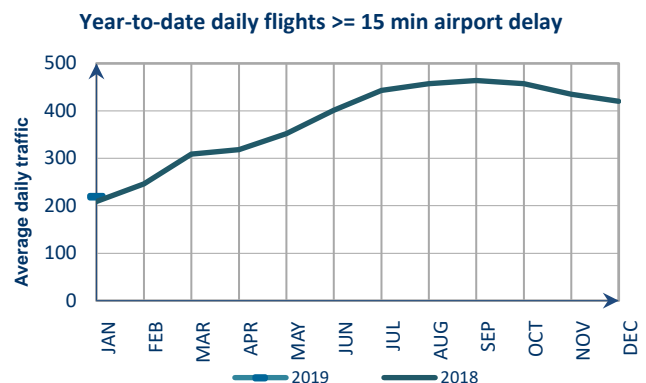


Airports accounted for 45.9% of all ATFM delays in January 2020, mainly due to weather.

Low visibility and strong winds impacted operations at London/Heathrow, Amsterdam/Schiphol and Lisbon airports.



Military activity in the vicinity of Lisbon airport generated delays.

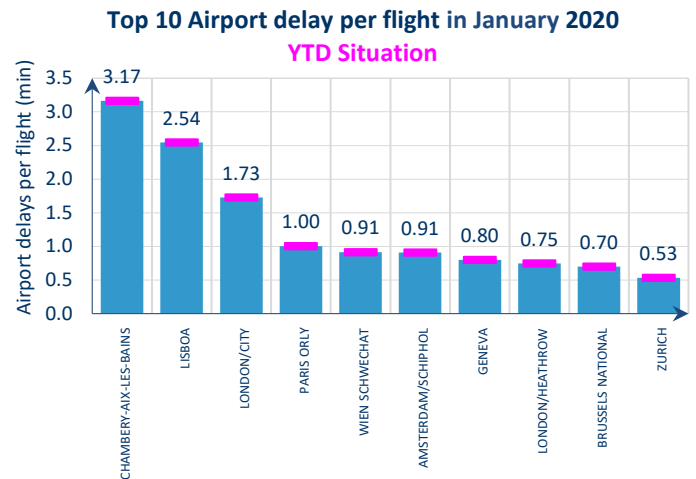
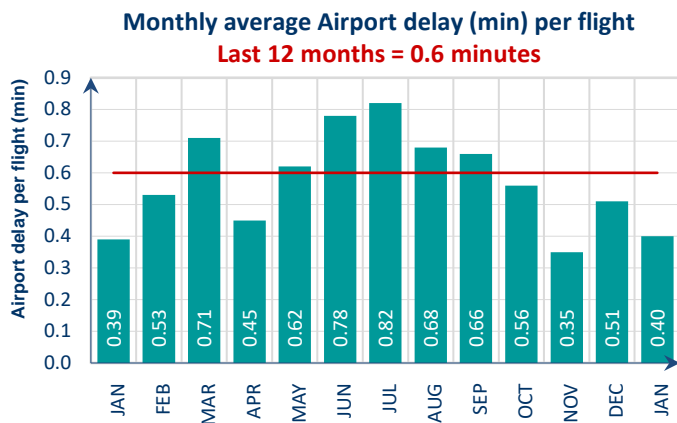


An average of 219 flights/day had an airport ATFM delay of at least 15 minutes. The corresponding figure in 2019 was 209 flights.

The top 3 locations for flights with 15 minutes or more airport ATFM delay (year-to-date) are:

- Amsterdam Schiphol with 49 flights/day;
- London/Heathrow with 21 flights/day;
- Madrid/Barajas with 18 flights/day.

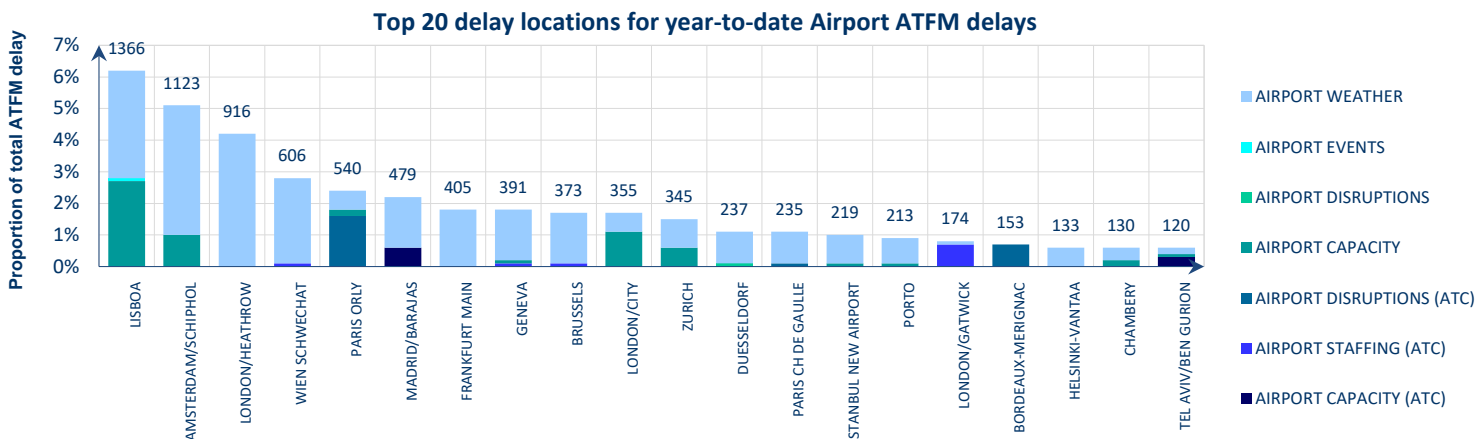
AIRPORT/TMA ATFM DELAY PER FLIGHT



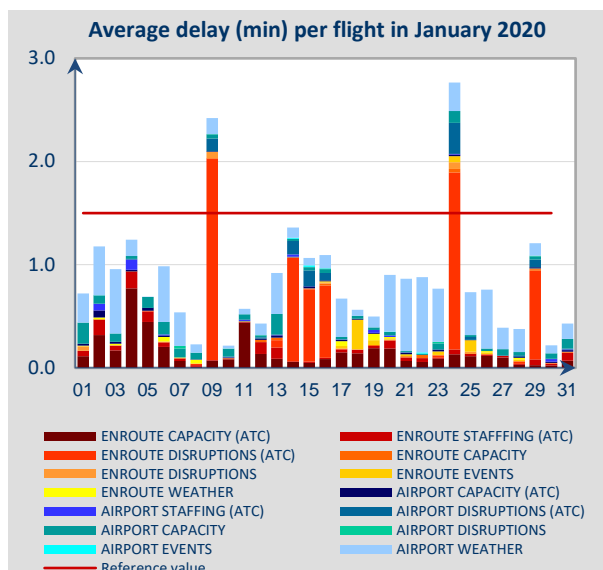
Average airport/TMA delay per flight increased from 0.39 min/ft in January 2019 to 0.40 min/ft in January 2020.

Chambery/Aix-Les-Bains airport had the highest delay per flight in January due to aerodrome capacity issue.

AIRPORT/TMA ATFM DELAY YEAR-TO-DATE



5. DAILY EVOLUTION



Two days in January 2020 had an average ATFM delay per flight exceeding 1.5 min:

09 January; French ATC industrial action generated high delays in French ACCs such as Marseille, Paris, Bordeaux and Brest ACCs; Madrid ACC was also impacted due to traffic onload; Paris/Orly was the most impacted airport; Strong winds and low visibility impacted operations at London/Heathrow and Porto airports;

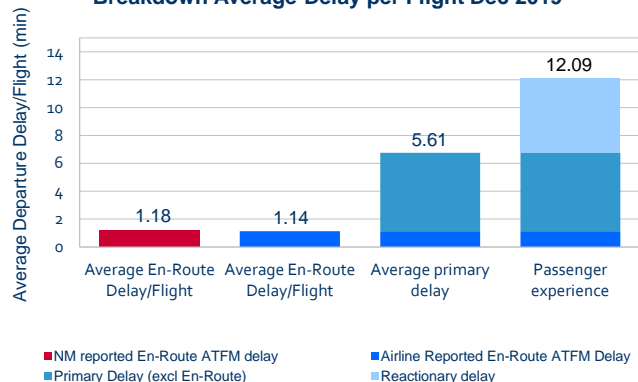
24 January; French ATC industrial action generated high delays in Paris, Marseille and Brest ACCs; Madrid ACC was also impacted due to traffic onload; Paris/Orly was the most impacted airport; Low visibility at Geneva and London/Heathrow impacted operations; Airport capacity issues due to weather at Lisbon airport; ATC capacity delays in Karlsruhe UAC.

6. ALL AIR TRANSPORT DELAYS (SOURCE: CODA)

This section presents the all air transport delay situation as seen from the airlines by using the data collected by Central Office for Delay Analysis (CODA) from airlines. Data coverage is 61% of the commercial flights in the ECAC region for **December 2019**. ATFM delays reported by airlines may be lower than the NM calculated ATFM delays due to difference in methods: ATFM delays of NM are the (flight) planned “delays”; the airlines report the “actual” experienced ATFM delay on departure.

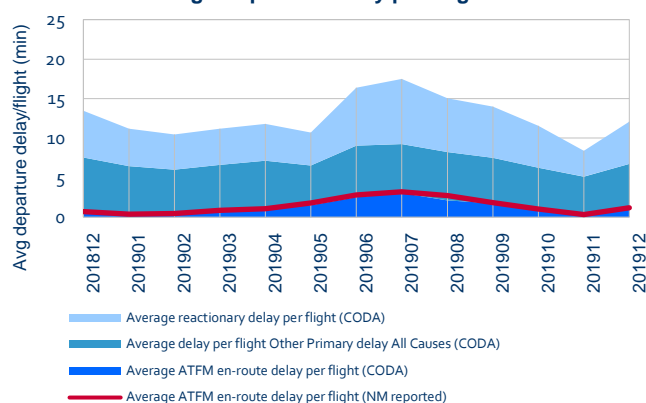
For instance, a flight with an ATFM delay may also have a handling delay absorbed within the ATFM delay. In the event of a long delay an example being during ATC industrial action a flight may keep its original schedule, however when it's flight plan is submitted for example a day later any ATFM delay allocated may be lower or zero, in this case airline reported delay will exceed NM reported ATFM delay.

Breakdown Average Delay per Flight Dec 2019



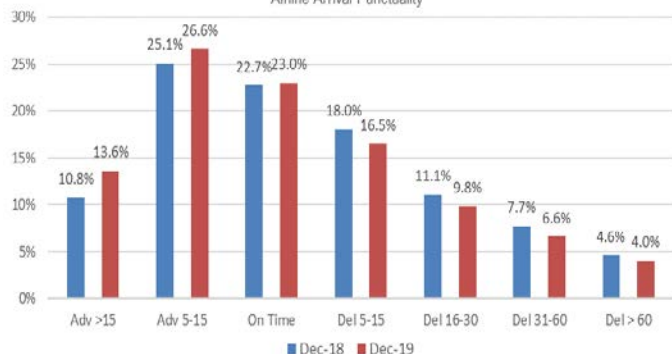
Based on airline data, the average departure delay per flight from ‘All-Causes’ was 12.09 minutes per flight, a 10% decrease in comparison to December 2018 where the average delay was 13.44 mins/flight. Primary delays counted for 56% or 6.75 min/ft, with reactionary delays representing the smaller remaining share of 44% at 5.34 min/ft.

Average Departure Delay per Flight 2018/2019



Further analysis of the past 12 months shows that the monthly average ‘All-Causes’ en-route ATFM delay was 1.14 min/ft in December 2019. French ATC industrial actions throughout December (04-13 and 16-18 December) generated en-route as well as airport ATFM delay. There were staffing shortages in Lisbon, London, Karlsruhe, Langen, Madrid, Marseille, Brussels, Lisbon and Brest ACCs. Winter weather mainly low visibility and fog affected operations at Amsterdam Schiphol, Lisbon, Oslo, Frankfurt, London Heathrow.

Airline Arrival Punctuality

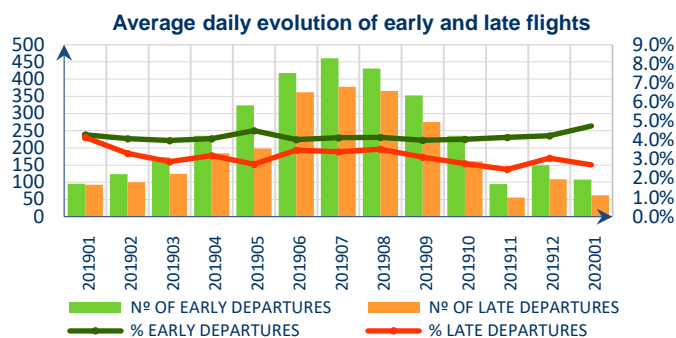


Airline punctuality improved in December 2019 with 79.7% of flights arriving within the 15-minute threshold, or earlier than their scheduled arrival time (STA) this was an increase of 3.1 percentage points in comparison to December 2018.

For more information on CODA delays:

<https://www.eurocontrol.int/publication/all-causes-delay-air-transport-europe-december-2019>

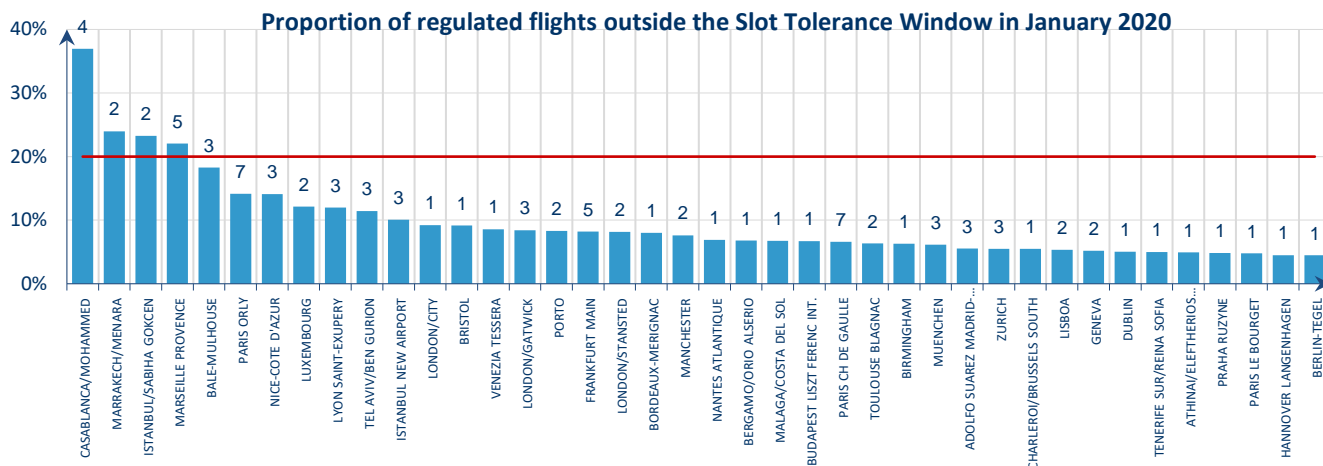
7. ATFM SLOT ADHERENCE



The percentage of early departures for January 2020 is 4.8% of regulated flights, which is an increase of 0.5 percentage points compared to January 2019.

The percentage of late departures for January 2020 is 2.7% of regulated flights, which is a decrease of 1.4 percentage points compared to January 2019.

The chart below shows the airports that have more than 300 regulated flights during the month with their average daily number and proportion of regulated flights that departed outside of the Slot Tolerance Window (STW). Any airport above the red line is non-compliant with the threshold (20%). Those airports with a number of departures outside the slot tolerance window can reduce network predictability.



8. SIGNIFICANT EVENTS AND ISSUES

PLANNED EVENTS

ACC

MAJOR AIRSPACE OR ATM SYSTEM IMPROVEMENT PROJECTS

PLANNED EVENTS

Five ACCs carried out projects associated with ATM systems implementations / upgrades or airspace structure changes during the month of January.

Lisbon ACC migrated to a provisional OPS room and performed LISATM system upgrade generating 13,160 minutes of ATFM delay, of which 456 were generated by Madrid ACC. Capacity reductions between 20% and 30% had been anticipated during the planning phase.

Munich ACC implemented new sector structure in TRG lower airspace, on 30 January, due to IPO (independent parallel operations) at EDDP not generating ATFM delays. Capacity reductions by 20% were applied, as planned, only during the night hours (21-01 UTC) for the last two days of the month.

Zurich ACC made yet another two steps within the Virtual Center Program on 07 and 16 January, not generating ATFM delay. Capacity reductions of 10% had been anticipated during the planning.

Marseille ACC conducted training of the trainers for the 4Flight system not generating ATFM delay. Capacity reductions had not been foreseen, only configurations were reduced by 1 sector on specific dates.

Reims ACC conducted training for the 4Flight system not generating ATFM delay. Capacity reductions had not been foreseen, only configurations were reduced between 01 and 03 sectors on specific dates.

ADDITIONAL INFORMATION

Bremen ACC generated 328 minutes of ATFM delay on 18 January due to back-up system tests.

Zurich ACC, after the coordination with NM, generated 1,743 minutes of ATFM delay due to the Davos Economic Forum.

AIRPORTS

Local Plans in January

A number of airports undertook infrastructure and technical system improvement works during January. These improvements as well as some special events had at most a minor impact on local airport operations, unless otherwise stated.

Special Events

- Davos World Economic Forum from 18 to 26 January.

Completed

- Runway maintenance/closure at Brussels and Paris/Orly airports;
- Taxiway and/or apron improvements at Tirana airport.

Ongoing

- Runway maintenance/closure at Katowice, Nice, Palma de Mallorca and Venice airports;
- Taxiway and/or apron improvements at Amsterdam/Schiphol, Basel/Mulhouse, Cologne, Frankfurt/Main, Hamburg, Ibiza, Lisbon, Paris/Orly (1,499 minutes of ATFM delay), Porto, Rome/Fiumicino and Venice airports;
- Terminal building improvements/works at Budapest, Frankfurt/Main, Ljubljana, Oslo/Gardermoen and Paris/Charles de Gaulle airports.

DISRUPTIONS

Operational

- Compliance to a night movement quota at London/Luton generated 2,501 minutes of ATFM delay throughout January;
- Stand availability issues at London/City airport generated 5,322 minutes of ATFM delay throughout the month.
- Fire in terminal building at Alicante airport from 16 to 19 January. Approximately 100 flights were diverted or cancelled.

Technical

- Complete electrical failure in Bodo ACC on 29 January generated 2,939 minutes of ATFM delay.

Industrial Action

- French ATC industrial action from 08 January to 10 January generated 51,251 minutes of en-route ATFM delay and 3,382 minutes of airport ATFM delay. Additional delays were reported locally in neighbouring states due to traffic onload and generated 1,390 minutes of ATFM delay. NM estimates 530 flights did not operate to/from/via French airspace;
- French ATC industrial action from 13 January to 17 January generated 55,463 minutes of en-route ATFM delay and 7,679 minutes of airport ATFM delay. Additional delays were reported locally in neighbouring states due to traffic onload and generated 556 minutes of ATFM delay. NM estimates 1970 flights did not operate to/from/via French airspace;
- Italian ATC industrial action on 14 January generated 5,147 minutes of en-route ATFM delay and 1,240 minutes of airport ATFM delay;
- French ATC industrial action from 23 January to 25 January generated 48,650 minutes of en-route ATFM delay and 9,009 minutes of airport ATFM delay. Additional delays were reported locally in neighbouring states due to traffic onload and generated 1,751 minutes of ATFM delay. NM estimates 540 flights did not operate to/from/via French airspace;
- French ATC industrial action from 28 January to 30 January generated 19,058 minutes of en-route ATFM delay and 2,086 minutes of airport ATFM delay. Additional delays were reported locally in neighbouring states due to traffic onload and generated 93 minutes of ATFM delay. NM estimates 240 flights did not operate to/from/via French airspace.

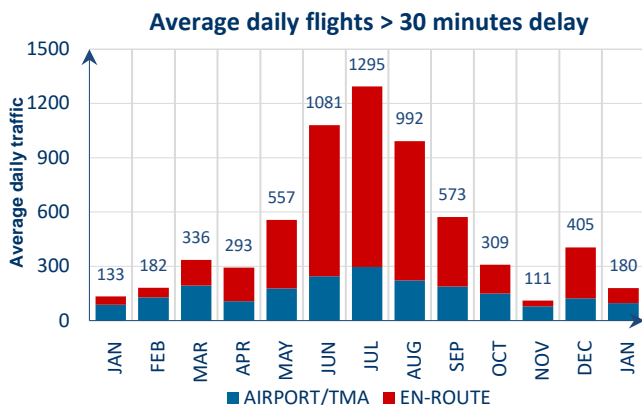
9. NM ADDED VALUE

FLIGHTS WITH DELAY > 30'

The number of flights with more than 30 minutes of ATFM delay increased by 35.3% compared to January 2019.

In January 2020, 46.7% of flights with more than 30 minutes of ATFM delay were en-route and 53.3% were airport.

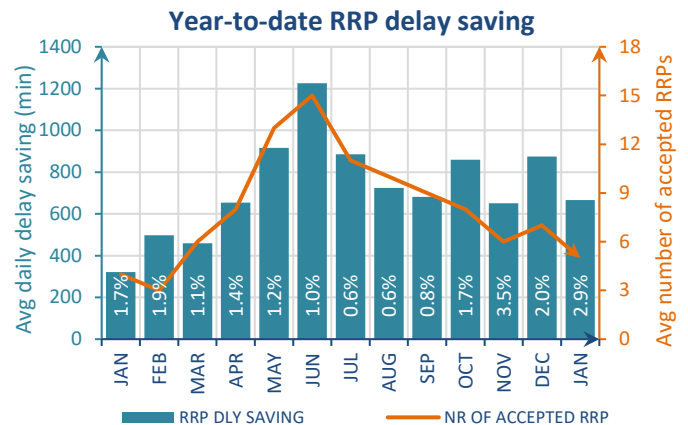
An average 20 flights per day had their delay reduced to less than 30 minutes by NM.



REROUTING PROPOSAL DIRECT DELAY SAVINGS

On average 5 RRP/day were executed saving 666 min/day, accounting for 2.9% of ATFM delays.

This graph shows the actual daily averages for the previous 13 months' period^v.



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<https://www.eurocontrol.int/network-performance>

i See Notice on page 2 for more information on traffic and delay comparison.

ii Internals, international arrivals and departures, excluding overflights.

iii See Notice on page 2 for more information on NM Area.

iv NM's calculation that provides the guideline en-route delay (min) requirements to achieve the annual target (0.9 min/flight).

v NM has revised the delay saving method. Where flights are subject to scenarios, delay savings from RRP are considered when the RRP is sent 3 hours (or less) in advance of the EOB.



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