



# All-Causes Delay to Air Transport in Europe

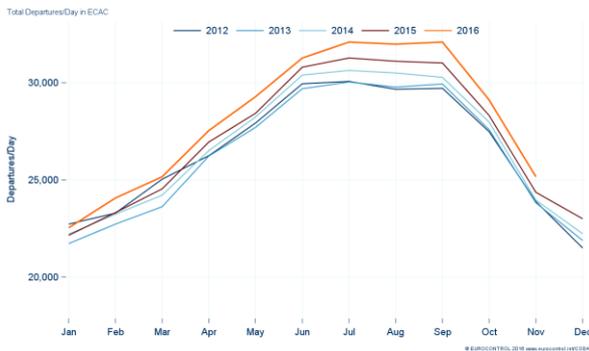
November 2016 – based on preliminary airline data\*

## Summary & Significant Events

In November 2016 preliminary data from airlines describing all-causes delay showed that the average delay per delayed flight (ADD) was 24 minutes, a decrease of 1.9 minutes. The percentage of delayed flights (>=5 minutes) was 38%, an increase 2.9 percentage points when compared to the same month in 2015. Analysing the average delay per flight, the share of airline related delay increased to 2.8 minutes, reactionary delays fell from 3.7 minutes to 3.4 minutes per flight. However the average delay per flight remained at a low level in a month with record highs of traffic.

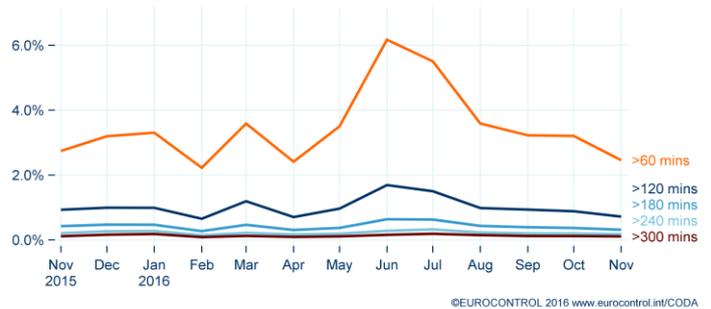
Aerodrome capacity issues at Istanbul Sabiha Gökçen were observed during the month, however Istanbul Ataturk saw fewer ATFM delays. Seasonal weather affected Canarias ACC, heavy rain and/or low visibility impacted London Heathrow, London City, Amsterdam Schiphol, Stockholm Arlanda, Zurich, Brussels, Barcelona and Oslo airports. Bucharest Henri Coanda airport suffered from delays due to on-going runway maintenance.

## Traffic



## Long Departure Delays All-Causes

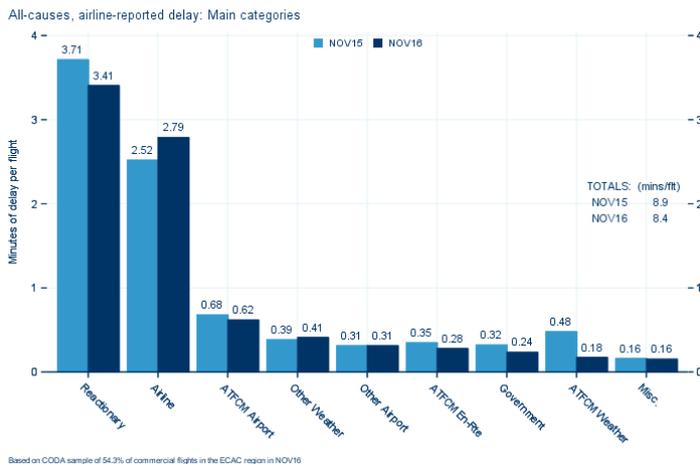
Percentage of Flights Delayed on Departure



In November 2016, ECAC saw an increase of 2.9% in the number of flights per day compared to November 2015.

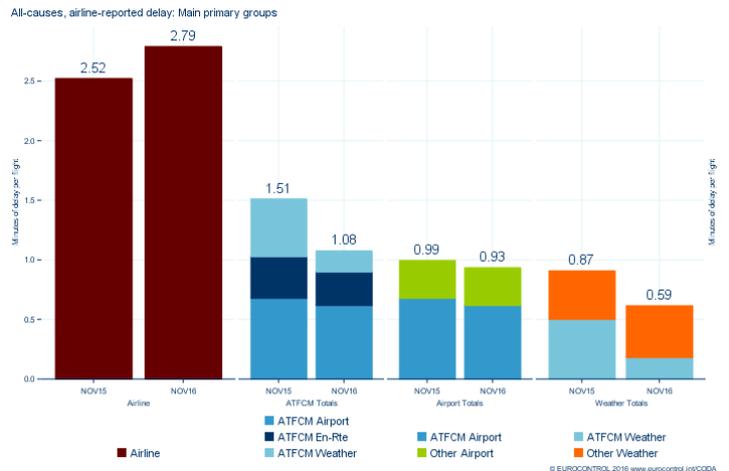
The percentage of flights delayed greater than 60 minutes from all-causes remained stable recording a small decrease of 0.1 percentage points to 2.6% when compared to November 2015.

## Average Delay Per Flight by Delay Cause



The average delay per flight in November 2016 fell by 0.5 minutes to 8.4 minutes per flight. Further analysis of the delay reasons shows that reactionary delay decreased by 0.3 minutes per flight. Airline related delay increased to 2.8 minutes per flight. ATFCM weather fell to 0.2 minutes per flight from 0.5 minutes in November 2015.

## Primary Delay Groupings



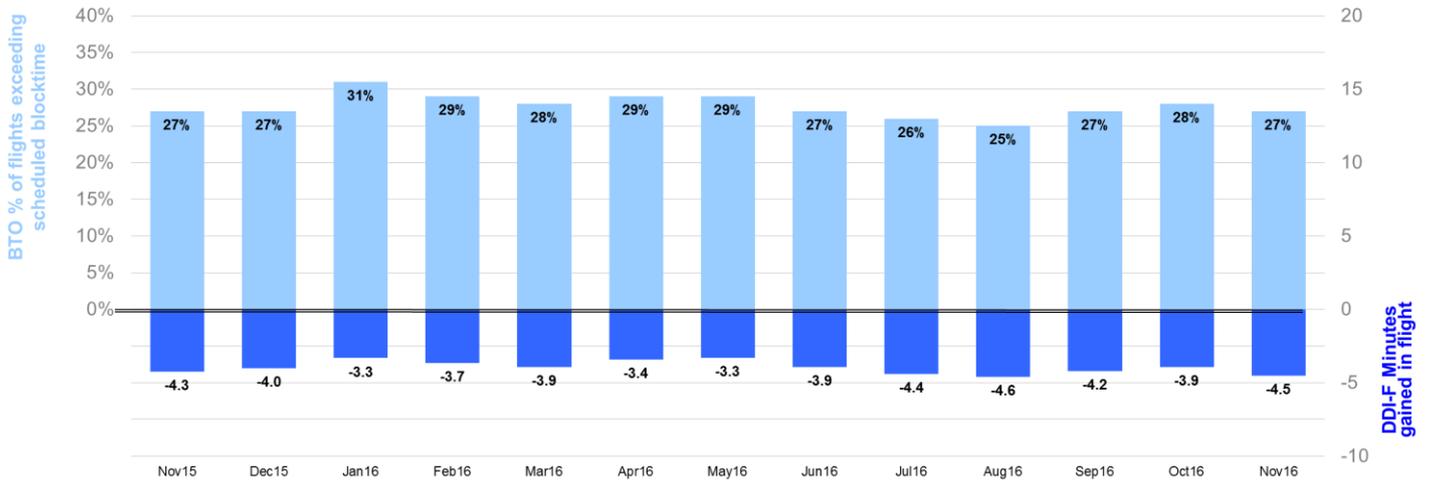
ATFCM delays reported by airlines fell to 1.1 minutes per flight, with weather driving this decrease. Airport delays remained stable at 0.9 minutes per flight.

\* This CODA report is based on airline data as currently available. Airline data coverage for November 2016 so far is: 54%  
Date of publication 23/12/2016

## CODA Scheduling Indicators

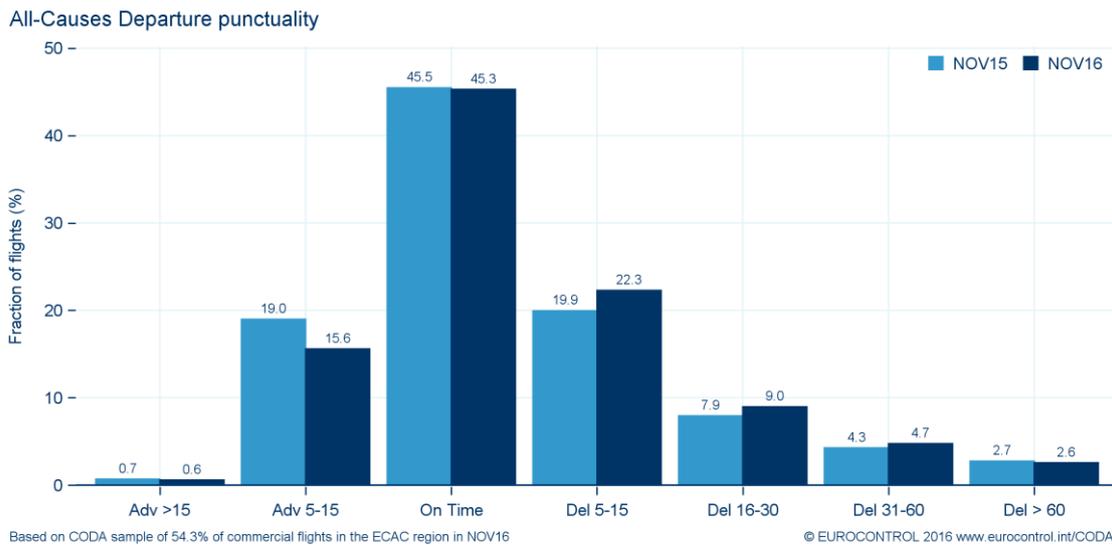
The **Block Time Overshoot (BTO)** or the percentage of flights with an actual block time which exceeds the scheduled block time. In November 2016, the European BTO remained at 27% of flights exceeding their block times compared to a year ago.

The **Delay Difference Indicator - Flight (DDI-F)** or the difference between departure and arrival punctuality expressed in minutes. This can be indicated as a positive or negative figure, for example a flight departing with 20 minutes delay and arriving with 30 minutes arrival delay will have a DDI-F of +10 minutes. The European DDI-F in November 2016 was -4.5 minutes, an increase when compared to November 2015 where the DDI-F was -4.3 minutes indicating a slight increase in schedule buffering.



## Distribution of All Flights by Length of Delay (Departure Punctuality)

In November 2016, 45% of flights departed within the 5 minute threshold before or after the scheduled departure time (STD), remaining stable in comparison to the equivalent month in 2015. Flights delayed >30 minutes from all-causes increased slightly from 7 to 7.3 percentage points when compared to November 2015.

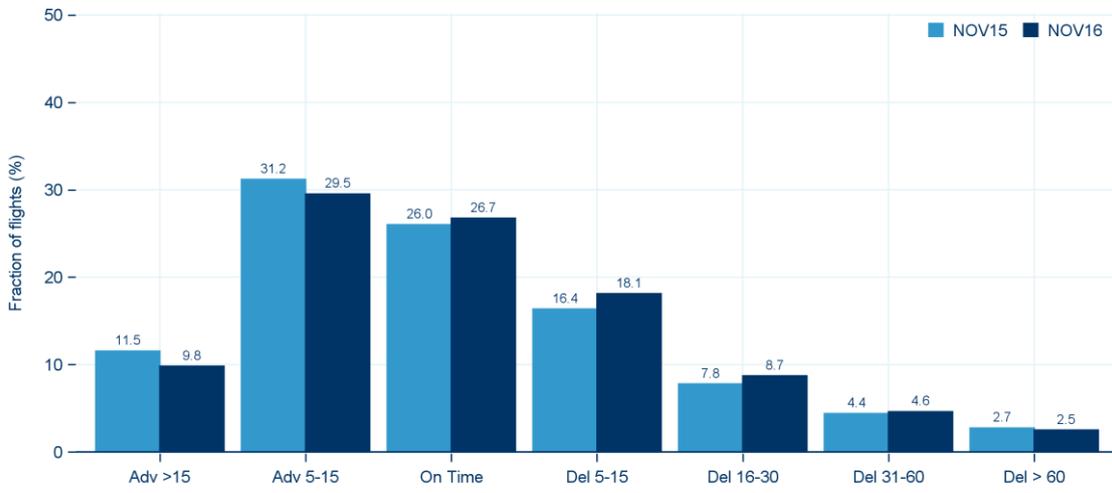


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## Distribution of All Flights by Length of Delay (Arrival Punctuality)

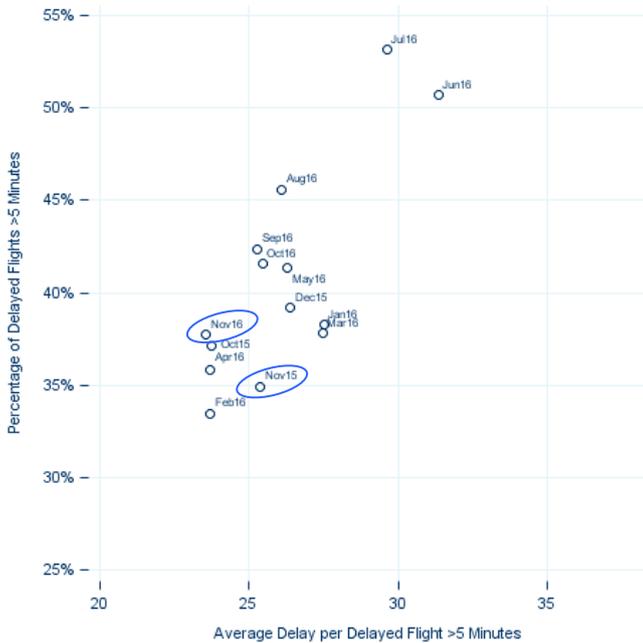
Regarding arrival punctuality, 84% of flights arrived within 15 minutes of the scheduled time of arrival time compared to 85% in November 2015. Flights arriving >15 minutes ahead of schedule decreased to 10% when compared to November 2015.

All-Causes Arrival punctuality



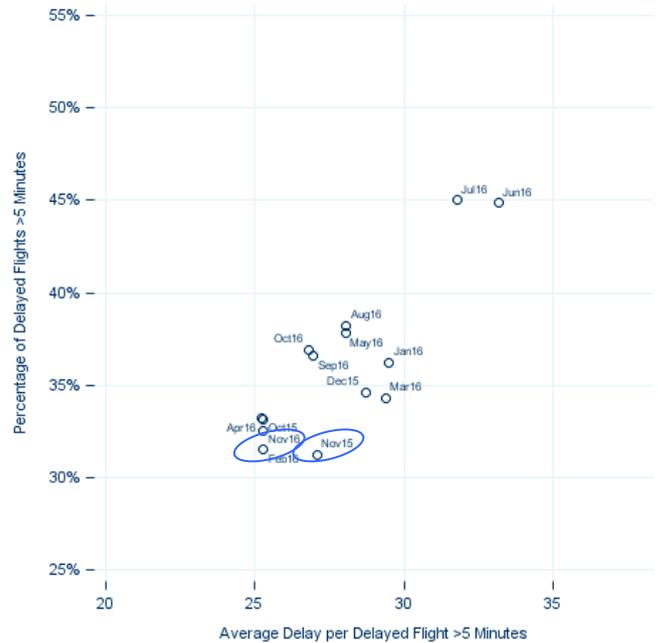
## Average Delay per Delayed Flight and Percentage of Delayed Flights Comparison

### Departure



In November 2016 the average delay per delayed flight ( $\geq 5$  minutes) on departure was 24 minutes, a decrease of 1.9 minutes. 38% of flights were delayed on arrival, an increase of 3 percentage points when compared to November 2015.

### Arrival



The average delay per delayed flight ( $\geq 5$  minutes) on arrival was 25 minutes, a decrease of 1.8 minutes when compared to November 2015. 33% of flights were delayed on arrival, a decrease of 1 percentage point when compared to November 2015.

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