

# Package ‘nycflights23’

April 19, 2025

**Title** Flights and Other Useful Metadata for NYC Outbound Flights in 2023

**Version** 0.2.0

**Description** Updating the now 10-year-old 'nycflights13' data package. It contains information about all flights that departed from the three main New York City airports in 2023 and metadata on airlines, airports, weather, and planes.

**License** CC0

**URL** <https://moderndive.github.io/nycflights23/>,  
<https://github.com/moderndive/nycflights23/>

**BugReports** <https://github.com/moderndive/nycflights23/issues/>

**Depends** R (>= 3.5.0)

**Suggests** anyflights

**Encoding** UTF-8

**LazyData** true

**LazyDataCompression** bzip2

**RoxygenNote** 7.3.1

**NeedsCompilation** no

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**Repository** CRAN

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airlines	<i>Airline names.</i>
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### Description

Look up airline names from their carrier codes.

### Format

A data frame with columns:

**carrier** Two letter abbreviation.

**name** Full name.

### Source

[https://www.transtats.bts.gov/DL\\_SelectFields.asp?Table\\_ID=236](https://www.transtats.bts.gov/DL_SelectFields.asp?Table_ID=236)

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airports	<i>Airport metadata</i>
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### Description

Useful metadata about airports.

### Format

A data frame with columns:

**faa** FAA airport code.

**name** Usual name of the airport.

**lat, lon** Location of airport.

**alt** Altitude, in feet.

**tz** Timezone offset from GMT/UTC.

**dst** Daylight savings time zone. A = Standard US DST: starts on the second Sunday of March, ends on the first Sunday of November. U = unknown. N = no dst.

**tzone** IANA time zone, as determined by GeoNames webservice.

**Source**

<https://openflights.org/>

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flights	<i>Flights data</i>
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**Description**

On-time data for all flights that departed from the given airports.

**Format**

A data frame with columns:

**year, month, day** Date of departure.

**dep\_time, arr\_time** Actual departure and arrival times, UTC.

**sched\_dep\_time, sched\_arr\_time** Scheduled departure and arrival times, UTC.

**dep\_delay, arr\_delay** Departure and arrival delays, in minutes. Negative times represent early departures/arrivals.

**hour, minute** Time of scheduled departure broken into hour and minutes.

**carrier** Two letter carrier abbreviation. See `get_airlines` to get the full name.

**tailnum** Plane tail number.

**flight** Flight number.

**origin, dest** Origin and destination airport. See `get_airports` for additional metadata.

**air\_time** Amount of time spent in the air, in minutes.

**distance** Distance between airports, in miles.

**time\_hour** Scheduled date and hour of the flight as a POSIXct date. Along with origin, can be used to join flights data to weather data.

**Source**

RITA, Bureau of transportation statistics, [https://www.transtats.bts.gov/DL\\_SelectFields.asp?Table\\_ID=236](https://www.transtats.bts.gov/DL_SelectFields.asp?Table_ID=236)

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planes	<i>Plane metadata.</i>
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### Description

Plane metadata for all plane tail numbers found in the FAA aircraft registry. American Airways (AA) and Envoy Air (MQ) report fleet numbers rather than tail numbers so can't be matched.

### Format

A data frame with columns:

**tailnum** Tail number.  
**year** Year manufactured  
**type** Type of plane.  
**manufacturer, model** Manufacturer and model.  
**engines, seats** Number of engines and seats.  
**speed** Average cruising speed in mph.  
**engine** Type of engine.

### Source

FAA Aircraft registry, [https://www.faa.gov/licenses\\_certificates/aircraft\\_certification/aircraft\\_registry/releasable\\_aircraft\\_download](https://www.faa.gov/licenses_certificates/aircraft_certification/aircraft_registry/releasable_aircraft_download)

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weather	<i>Hourly weather data</i>
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### Description

Hourly meteorological data.

### Format

A data frame with columns

**origin** Weather station. Named origin to facilitate merging with flights data.  
**year, month, day, hour** Time of recording, UTC.  
**temp, dewp** Temperature and dewpoint in F.  
**humid** Relative humidity.  
**wind\_dir, wind\_speed, wind\_gust** Wind direction (in degrees), speed and gust speed (in mph).  
**precip** Precipitation, in inches.  
**pressure** Sea level pressure in millibars.  
**visib** Visibility in miles.  
**time\_hour** Date and hour of the recording as a POSIXct date, UTC.

**Source**

ASOS download from Iowa Environmental Mesonet, <https://mesonet.agron.iastate.edu/request/download.phtml>.

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