



RFD Web

Random Flight Database

Complete guide for new users

randomflightdatabase.fr

English Edition

Available modes

REAL FLIGHTS

FICTIONAL

AI

LIVE

1M+ real flights · 84,000 airports

What is RFD Web?

RFD Web is a free web application for flight simulator pilots. It generates realistic or fictional flights using a database of over 1 million flight lines and 84,000 worldwide airports.

1,025,581

Flight lines

84,764

Airports

4

Modes

15

Filters

Who is it for?

Virtual pilots

Authentic flights from real airlines.

Bush flying fans

Helipads, remote airstrips, seaplane bases.

Explorers

Discover routes you'd never have chosen.

Streamers & VA

Live + AI mode for fully immersive sessions.

Interface at a glance

| | | |
|------------------------|--|---|
| ✈️ Real Flights | Real flight database — 1M+ entries, up to 15 filters. | Additional menus <hr/> Tools <p>IFR/VFR charts, ICAO, SigWx weather maps, altitude winds.</p> <hr/> Resources <p>Documentation, FAQ, Tips, Discord RFD, Cinematica community.</p> <hr/> Config <p>Save search presets and configure your AI API key.</p> <hr/> Databases <p>Manage your locally loaded flight databases.</p> |
| ✦ Fictional | No-database generation — based on airports.csv. | |
| 🗿 AI | Flights created by an AI model from your criteria. | |
| ● Live | Currently airborne flights — real-time (15 free searches). | |

Real Flights

The main mode. Queries the RFD database to extract real commercial flights matching your criteria. Up to 15 available filters.

The 15 filters

| | | |
|----------------------|----------------------|-------------------|
| • Airline | • Departure airport | • Arrival airport |
| • Aircraft | • Day of week | • Registration |
| • Flight time | • Multiple | • Continuous |
| • Intercontinental | • Continental | • Regional |
| • Favourite aircraft | • Favourite airports | • Difficulty |

Tips & tricks

Quick filters

Click the shortcut buttons at the bottom of the page to add common filters instantly.

Time + Multiple

Combine these two filters for a strict total flight time — great for multi-leg planning.

Continuous mode

Arrival automatically becomes the next departure. Ideal for chaining flight legs.

Save a preset

Memorise your filter configuration via "Save preset" and reload it in one click.

Fictional Flights

Generates flights from airports.csv — no database needed. Perfect for helipads, small airstrips, and unserved regions.

Features

Min/max distance

Range in km or nautical miles.

Airport size

Small (S), Medium (M), Large (L).

Regional tour

Auto multi-leg regional circuit.

Airport types

Heliports, seaplanes, balloons, closed.

Continental tour

Auto multi-leg continental circuit.

Auto distance

Distance calculated automatically.

When to use it?

Bush flying

Grass strips, isolated helipads, remote wilderness areas.

No-airline zones

Explore regions with no commercial airline service.

Regional circuits

Build multi-leg tours using Continental/Regional Tour mode.

Maritime ops

Seaplanes and coastal bases for unusual flights.

AI Generation

Use language models to create personalised flights. Simply describe your preferences: airline, aircraft type, geographic zone.

Available AI models

Deepseek R1T2

Default model
Very accurate · slower

OpenRouter

Many models available
API key required

Groq

Ultra-fast
API key required

Gemini

Google model
Versatile

Generation criteria (all optional)

Airline

e.g. Air France, Emirates, Ryanair

Aircraft type

e.g. A320, B737, ATR72

Year / period

e.g. 2023 or 1990-1995

Country / continent

e.g. France, Europe, Southeast Asia

Flight type

e.g. short-haul, cargo, long-haul

Number of flights

From 1 to several flights per request

Live Tracking

Connect to real-time air traffic data. Find flights currently airborne and reproduce them in your simulator for maximum realism.

Access

15 free searches

Every user gets 15 free Live searches to try out the mode without any account.

Live subscription

Beyond the free quota, a valid subscription is required. Click "Subscribe".

Live flight categories

• Commercial airlines

• Cargo

• Business jets

• Private flights

• Helicopters

• Military

Combining with filters

Live mode uses the same 15 filters as Real Flights. Narrow by airline, airport, duration, or aircraft type to find exactly the live flight you want.

Tip

Combine "Airline" + "Aircraft" + "Live" filters to find a specific flight in progress.

⚠ Private, Helicopters and Military categories may return fewer results depending on live data availability.

Results & Actions

After each search, RFD displays a detailed flight table. Click any row to open the contextual actions panel on the right.

Information shown per flight

| | | |
|------------------|--------------------|-----------------|
| • Airline logo | • Airline name | • Departure DEP |
| • Arrival ARR | • Aircraft type | • Registration |
| • Departure time | • Duration + dist. | • Flight number |
| • Callsign | • Days operated | |

Available actions

Visualise

Interactive route map (Leaflet / OpenStreetMap).

Regenerate

New random flight using the same filters.

Copy DEP→ARR

ICAO codes copied to clipboard.

WINDY

En-route weather via WINDY.com.

FlightAware

Real flight history on FlightAware.

CSV/JSON export

Export results for your external tools.

AI Actions on Results

For each selected flight, a dedicated AI section enhances your experience with auto-generated briefings, announcements, and difficulty ratings.

AI Briefing

Weather, fictional NOTAMs, runway conditions, ATC instructions — a complete pre-flight briefing for total immersion before each session.

AI Announcements

Realistic cabin PA announcements (boarding, cruise, landing) in your language of choice, in the style of a real captain.

AI Difficulty

The AI rates the flight difficulty based on route, airports, and typical conditions — perfect for building skills progressively.

 Set your API key in Config → API Key to unlock faster models (Groq) or custom ones via OpenRouter.

Built-in Tools

The Tools menu gives direct access to navigation and meteorology resources — without leaving RFD Web.

IFR / VFR Charts

Navigation charts for planning routes, airways, and cruising altitudes. Essential for flight plan preparation.

ICAO Charts

Official ICAO aeronautical charts for professional-grade navigation.

SigWx Maps

Significant weather (turbulence, icing, convection) by ICAO zone and UTC time. Select zone and time for your route.

Altitude Winds

Wind forecasts for Europe by flight level (FL) and UTC date/time. Useful for estimating headwinds and fuel burn.

Your first steps

Follow these 6 steps to launch your first RFD flight in under 5 minutes.

1

Open RFD

Go to randomflightdatabase.fr. The database loads automatically from local cache.

2

Choose a mode

Select "Real Flights" to start — the richest mode with 1M+ flights available.

3

Add filters

Click the quick-filter buttons (Airline, Aircraft, Airport...) or use the left column for advanced filters.

4

Hit SEARCH

Click the blue SEARCH button. RFD randomly picks a flight matching your criteria.

5

Explore actions

Click the result to view the route map, get an AI Briefing, or open in WINDY.

6

Take off!

Load the flight plan into your simulator and enjoy full immersion with real-world data.

Community & Expert Tips

Join the community

Discord RFD

Ask questions, share flights, follow updates and new features.

Cinematica

Partner community dedicated to flight simulation.

Documentation & FAQ

Full guide and FAQ available via Resources → Documentation.

Support RFD

Independent project — support via PayPal or Buy Me a Coffee.

Expert tips

Presets

Save your favourite filter combos to reload them in one click.

Continuous mode

Arrival becomes next departure — perfect for multi-leg sessions.

Fav. aircraft

Mark your favourite planes for quick access in filter dropdowns.

Difficulty

Start on Easy and work up — great for progressive simulator training.