

Ops in Europe vs USA: The Differences

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Someone asked us what pilots can expect if they fly their plane to Europe compared to what they can expect in the US, and we suddenly thought to ourselves *“Good question! What are the differences?”*

So here’s a quick rundown of some of the main ones.

Altimeter Stuff

Both countries use altimeters, and they use them in feet. *Here’s a question for you - why are they not called Altifeeters?* Anyway, they work the same, except for one key difference...

Europe uses millibars, which are hectopascals, sort of. They give QNH’s which sound like **“one zero one three”** and that is in mb (or hPa, because 1 of one is the same as the other one). The US however does it in Inches of Mercury (inHg) which means theirs sounds more like **“two niner daysimal niner two”**. So plenty of room right there to set wrong thing and for things to go wrong...

Europe also doesn’t use standard transition altitudes and levels. They change them all over the place, and sometimes they are really low. Which means there is room (or rather no room) for things to go wrong here too, and they do. Particularly in **EINN/Shannon** which we mentioned on behalf of Shannon airport right here.

CPDLC Stuff

CPDLC in the US is **FANS 1/A**, as it is across the NAT HLA and even into the UK. But leave those green and frosty pastures for the European Mainland and you will find yourself in a land of **ATN B1** fun.

It isn’t that fun actually because your FANS equipment won’t work, and there are also a lot of rules about who needs CPDLC and at what levels. You can read about it all here, and if you click on the map in the post (or here) then you will get transported straight to an **implementation table** which is very handy.

There is also a thing called a **Logon List** in Europe, which used to be called the White List, which you need

to fill out in order to **register to use CPDLC in Switzerland, Germany, and Maastricht-UAC**.

The US has CPDLC but has not really mandated it. They are running trials on it though, which some BizAv aircraft might be able to join in on. We recommend reading this to find out more about that.

Flight Planning

In the US, the FAA has different codes and we aren't sure when they will become codes for using in Europe too. So your flight plan filings might be a little different.

The codes mainly apply to new RNP type stuff and they go in Item 18 of your FPL.

Item	Purpose	Entry	Explanation
NAV/ entries used by FAA	Radius to Fix (RF) capability	Z1	RNP-capable flight is authorized for Radius to Fix operations.
	Fixed Radius Transitions (FRT)	Z2	RNP-capable flight is authorized for Fixed Radius Transitions.
	Time of Arrival Control (TOAC)	Z5	RNP-capable flight is authorized for Time of Arrival Control.
	Advanced RNP (A-RNP)	P1	Flight is authorized for A-RNP operations.
	Helicopter RNP 0.3	R1	Flight is authorized for RNP 0.3 operations (pertains to helicopters only).
	RNP 2 Continental	M1	Flight is authorized for RNP 2 continental operations.
	RNP 2 Oceanic/Remote	M2	Flight is authorized for RNP 2 oceanic/remote operations.

You can find all the codes in the FAA AIM Appendix 4 (click on the pic)

EU-LISA

No Comment.

Fine, EU-LISA

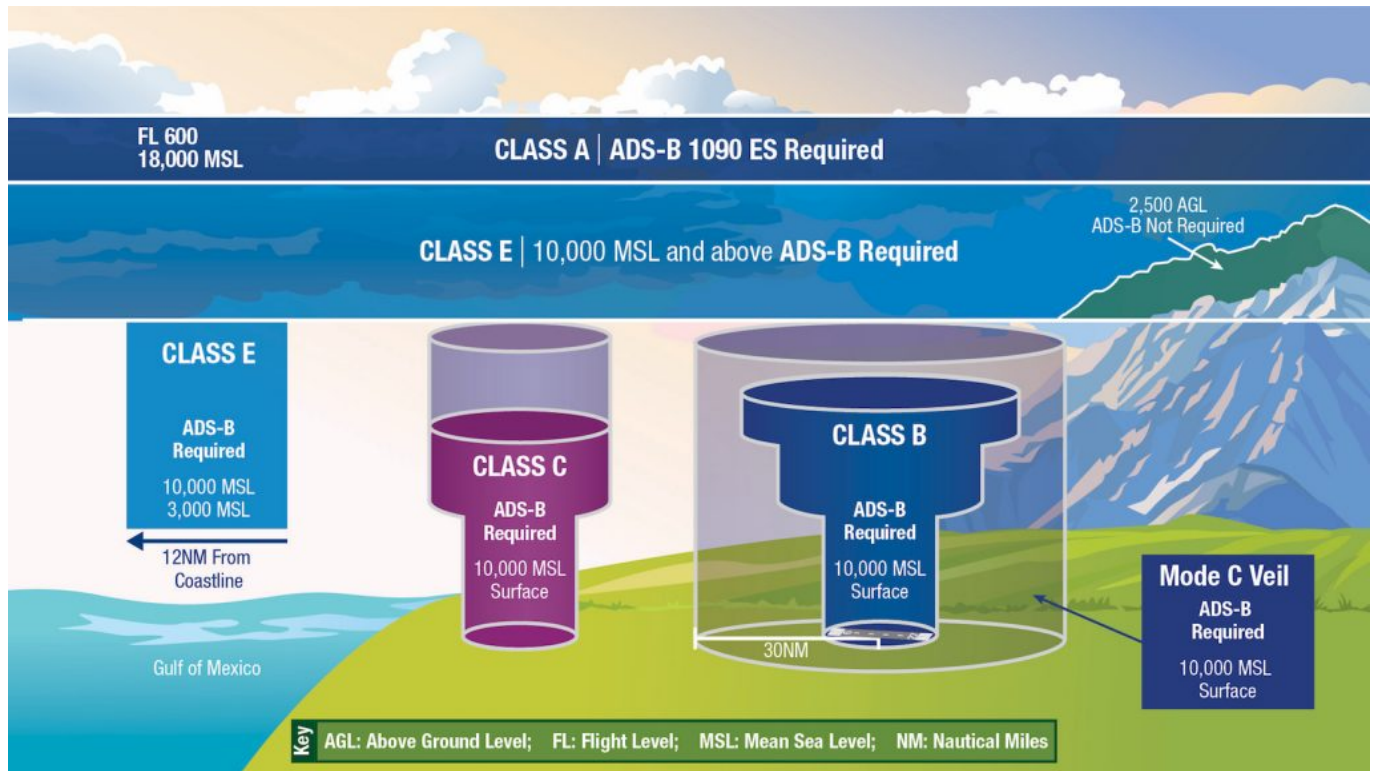
The currently delayed EU-LISA thing is sort of like the **ESTA visa waiver stuff in the US**. It is a system to allow for better monitoring and recording of people heading into Europe.

And that is all we are going say on it.

ADS-B

ADS-B privacy is a bit of a question anywhere, but in the US (in their territorial bit) you can sign up for certain stuff to make yourself less *conspicuous* - the LADD system, PIA etc. **These won't work in Europe.**

Both the US and Europe have **ADS-B mandates**, although they apply at different levels.



US ADS-B mandates

MAYDAY calls

That's right, even these differ. Sort of.

In Europe you really need to say "*MAYDAY, MAYDAY!*" and when you do everyone still generally shush up, although ATC will start asking your intentions and trying to help you. You can tell them to standby if you want to.

In the US you might find you need to say "*We are declaring an emergency*" and might get a whole lot of questions straight after. They of course use ICAO calls (you can find the whole FAA info on that here) but occasionally (so we're told) that this is something *confirmed* as well.

You can listen to an example here.

Europe also uses '**Minimum Fuel**', which you should let ATC know about if you find yourself getting low on it (but are still fine so long as nothing else changes). They'll help if they can, but will only properly be able to jump you in the queue if you call 'Mayday Fuel'.

Strikes

I mean they have these both sides of the Atlantic, but they happen fairly regularly in Europe, particularly in **France and Italy**. If it is an airport workers type strike then your best point of call is going to be your local agent.

If it is an **ATC strike** then the Eurocontrol Network Operations Portal is going to have the info on it.

While we are talking about France and ATC, it is worth noting that **they generally speak French** here, especially at LFPG/Paris, and it can make things confusing at times.

Strikes tend to happen over major holidays so summer is a time to watch, Christmas and Easter coming in close second and third.

Airspace Issues

First up, Europe is the continent and **the UK is still part of Europe**. As, actually, is Russia and also Turkey, although since they border other continents they are often thought of as part of them.

EASA is the main authority for EU countries, which means the UK is not covered by them but by the UK CAA. **So where you get your permits from is different**. Emissions schemes are also separate.

Eurocontrol is the main *airspace manager* for want of a better title. Turkey and Ukraine are both member states, Israel and Morocco are sort of semi members. That doesn't mean you are going to get the same level of **ATC standards** across them all though.

Turkey has a lot of issues with **GPS jamming**, and it borders certain countries with major conflicts meaning areas of the southern border and border with Iraq are not always risk free. They also have *disputes* with Greece over certain bits of airspace which is worth knowing about because it makes the **communication and radio work more complex**.

Ukraine's airspace is currently closed due to the ongoing conflict with Russia. Moldova is mostly out of bounds. Poland has some safety concerns in the regions bordering Ukraine.

As far as we know, the US airspace is all considered fairly safe although there are some **local procedures** and airspaces to look out for – New York and the Florida metroplex area are two which spring to mind (*although there are probably others? Let us know!*).

Europe, because it is loads of countries not one big one, tends to see a fair old number of **military airspaces activated** so Notam and AIP SUP checks are important for info on those. Major military exercises in Europe are published through the NOP. The US of course has TFRs and other restricted and danger areas which are published here.

Ramp Checks (and MELs because they sort of fit into it as well)

Ramp Checks are rife in Europe. We recently received intel on the main issue items in French ramp checks, but these probably apply everywhere.

One big area of difference is the **MEL vs MMEL thing**. In Europe an MMEL is not usually accepted – they want an MEL specific for your aircraft. That said, there are some exemptions.



RAMP CHECK FINDINGS *Top Offenders*



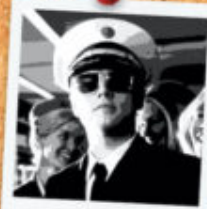
Flight Planning



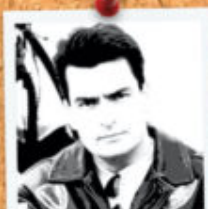
Documents



Defects



Charts



Cabin Safety

Flight Planning

- * Flight planned for an unavailable alternate. LFMD, LFOB, LFLX and LFBE are the usual suspects here.
- * Had no weather briefing or PPR.
- * Bogus flight planning to alternates. (Planning straight lines, outrageous speeds below FL100, and ridiculous fuel computations.)
- * Had the wrong number of pax onboard, or pax sitting in the wrong places. The same errors were found for luggage.
- * Pilot bafflement when asked about the various empty/operating/maximum masses of the aircraft.

Documents

- * Different versions of the same manual or checklist found onboard.
- * No instructions for challenging airports.
- * No procedure for in-flight fuel checks.
- * Dangerous goods not listed properly (i.e. lithium batteries).
- * Outdated versions of the QRH found onboard, or sometimes not found at all!
- * Mismatch between the aircraft configuration and the QRH, or the equipment on the aircraft and the MEL.
- * (O) or (M) procedures inadequate or missing.

Defects



- * Maintenance action from the MEL hadn't been done.
- * Inoperative equipment not mentioned in the tech log, or missing info from engineers.
- * Flight operations conducted beyond the due dates.

Charts

- * Outdated navigation databases or charts (in one case by up to a decade).
- * Missing instrument charts.
- * Use of an unapproved EFB.
- * No storage device installed for the EFB.

Cabin Safety

- * Beds open during critical phases of flight and taxi, blocking emergency exits.
- * Luggage stored in the toilets, left on the floor or seats or in front of an emergency exit.
- * Straps or nets not used to secure stuff in the cargo hold.
- * Household coffee machine installed in the galley.

General 'vocab'

This might just be something only I struggle with, but I once had a humiliating experience flying into **KIAD/Washington Dulles** international where ATC asked if we *"have Dulles insight?"* I (pompously) informed him that no, we did not have 'Dallas' in sight, because we were heading for Washington.

Not used to being asked if visual, and not used to referring to airports by name got me good on that one.

And accents, 'colloquialisms' and of course actual differences in clearances can catch you out. **There are differences in things like your arrival and descent clearances even.**

In the US, in airports like KLAX/Los Angeles (*an example I am familiar with*) then often clear you (*and there is a chance I am getting this wrong now*) on the arrival which includes the descent clearance as per the arrival as well. I want to say *"descend via"* or maybe *'cleared via'* (it's a while since I've been there...)

Anyway, the clearance is for you to descend down to the lowest altitude on the arrival, but in Europe we don't tend to do so without **explicitly hearing the altitude.**

Low Vis Stuff

OK, someone asked me to add this and I have to go get the old manuals out and look it up. In the meantime - watch out because we do stuff like RVR differently. And TERPS.

Fuel Tax, Curfews and other random things

Fuel tax is a thing in Europe, but also a thing you can attempt to claim back. In some places anyway.

A lot of European airports have curfews. It is worth knowing which countries have them so you don't get caught out.