

# What's the Time, Mr Mexico?

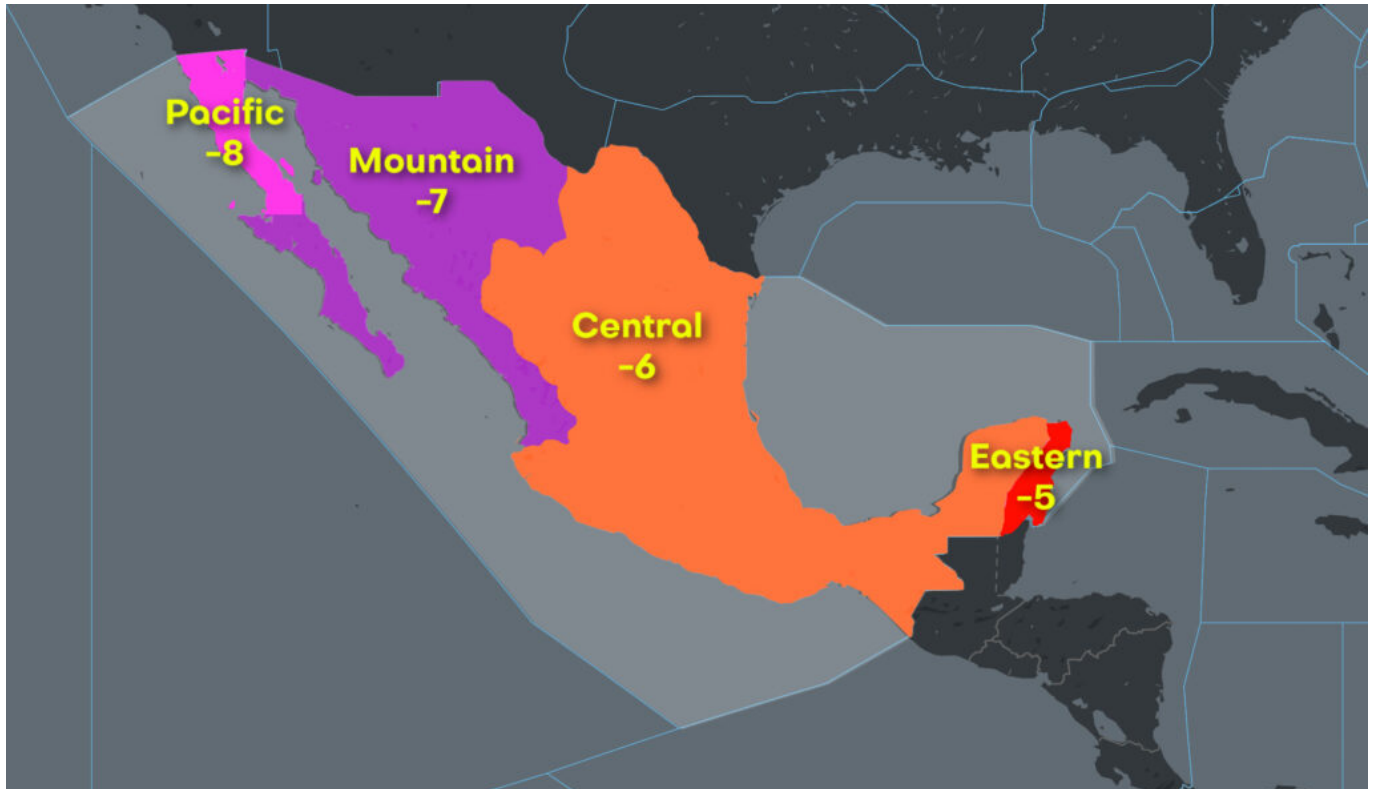
OPSGROUP Team  
6 December, 2022



Mexican time is changing! They currently have 4 time zones:

- **PST** (Pacific standard time) GMT-8 (which is just Tijuana)
- **EST** (eastern) GMT-7
- **CST** (central) GMT-6
- **MST** (mountain) GMT-5

Here is a map (complete with ticking times) showing these. Or a more fixed one below if you prefer.



**So what's the problem?**

**Daylight saving is the problem!**

Most of us forget/are confused by it/just let our phones do their thing and wake up feeling slightly less/more well rested depending on which way they're moving. (Just remember: **Spring Forward, Fall Back.**)

In other words, when daylight saving starts (*in the summer which frankly is confusing because there is already more sunlight then so why is it called 'saving'*) then you wind the clock forward an hour, losing one, and you wind it back again in the fall (autumn) meaning you live the same hour twice, to help make better use of the natural daylight.

Then there is the confusion of who does it and who doesn't. Arizona, USA for example opted out of DST. Except for the Navajo Nation who opted in.

**Who should we thank for this confounding thing?** Some say the USA's Benjamin Franklin, some say NZ's George Hudson, some say the UK's William Willett, some say "*I have no idea who two of those three people are, tell me something useful?!"*

**Back to the Mexico problem**

**Mexico is cancelling DST from 2023.** Which isn't the worst thing ever given the confusion (see above)

The problem is... not all of Mexico is going to. **Some border towns are not not going to do DST.**

Wait, now I'm confused.

The ten municipalities bordering the USA have decided to stay synched with their American neighbors, presumably to avoid confusion with border crossing.

- **Acuna**

- Anahuac
- Juarez
- Matamoros
- Mexicali
- Nuevo Laredo
- Ojinaga
- Piedras Negras
- Reynosa
- Tijuana

So all of these **will** still apply DST, which means it will look something like this:



**When is this all happening?**

**Well, the no-more-DST starts in April 2023** when the rest of Mexico just won't wind their clocks forward.

The clocks will still wind forward in those 10 places though. Which, for you, might mean confusion if you're heading into any airports along the border area. Like **MMCS/Ciudad Juárez International**.

**Some fun time zone facts**

If asked which country has the most time zones, most probably guess the USA or Russia. Both actually "only" have 11 though. **The top spot goes to France** with a whopping 13 different zones (ok, they own

random bits of land all over the world so not really a fair game).

Next up are the countries with 9, which includes **Australia, Antarctica and the UK**. Yup, the UK boast a fair few 'unattached' areas in the world too.

**China is another oddity**. It should have 5 time zones. It only has 1, based off what suits the Beijing sun best! ☐ ☐

---

## France says take trains not planes

OPSGROUP Team

6 December, 2022



France have implemented their ban on short-haul domestic flights, with it going into effect on December 2, 2022.

So what, and who, does this apply to?

### The What.

It applies to short-haul domestic flights. In France.

Basically any route that can be **reached by train within 2.5 hours** is now a no-go for flights.

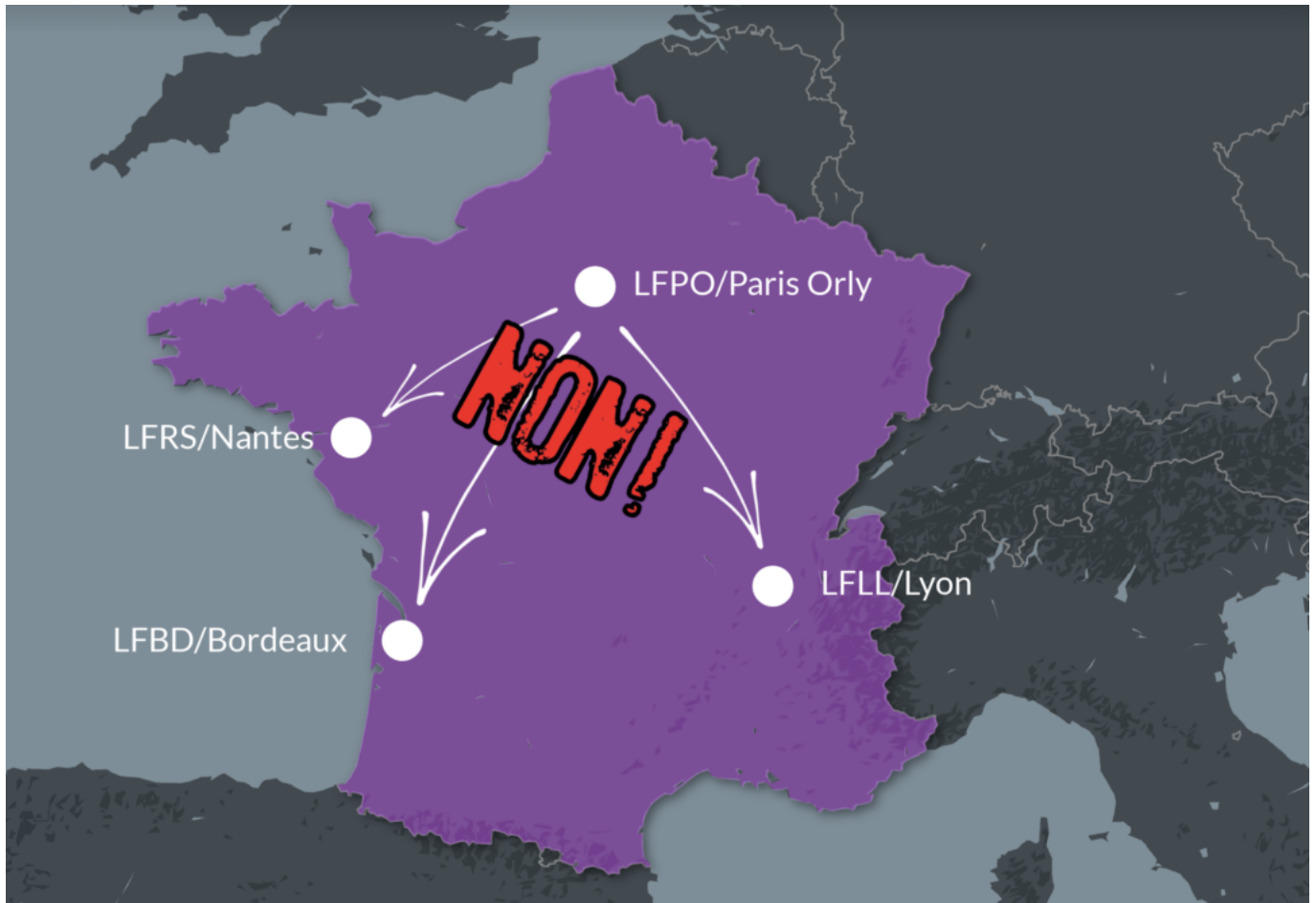
There are three initial scheduled routes that meet the criteria, and they're all from LFPO/Paris Orly:

- **LFPO/Orly to LFBD/Bordeaux**
- **LFPO/Orly to LFRS/Nantes**
- **LFPO/Orly to LFLL/Lyon**



Originally there were 8 proposed routes which also included LFPG/Charles de Gaulle to LFBD/Bordeaux and LFRS/Nantes, LFPG/Charles de Gaulle to LFRS/Rennes and LFLL/Lyon, and also LFLL/Lyon to LFML/Marseille.

However, the train services aren't quite there yet in terms of frequencies and timings. As soon as they are though... **expect these to be reviewed as well.**



### The Who.

The official notice? Treaty? Regulation? Amendment to a treaty? Journal of the EU... We're not actually sure what to call it, but the official *thing* says (and before we forget, here it is for you to read yourself), that the routes are **"prohibited for any carrier"**.

Which means, we guessed, all flights including BizAv. But, this is the EU, and we all remember the misery of working out what they meant by the term "carrier" for all things EU-LISA related...

And of course, there is the big question of **whether this applies to non-French registered 'carriers'** as well?

### So, who else?

Well, we had a little re-read and what it actually says is this:

8. Article 145.I of the Law prohibits, on the basis of Article 20 of the Regulation, **scheduled public passenger air transport services** on all air routes within French territory for **which there are several direct rail connections per day of less than two and a half hours.**

**Phew, ok, that is actually not so bad.**

So, we figure it means this:

- It only applied to **scheduled services**.
- It only applies to **public** (so not your private) flights.
- It might apply to any **EU registered** (not just French registered) aircraft though.
- They have **specifically listed routes** with connections that make this ruling applicable.

So if you are heading to France (and have some cabotage deal), and want to fly internally, then chances are you are still fine to do it. If you are an EU registered aircraft then you might want to have a closer look at what it means for you on these specific routes though.

And while they do say “**scheduled public service**” if there is a sudden uptick of private services on these routes it probably won’t go down very well, so perhaps don’t go having a cunning plan about setting up a ‘private’ route.

### **Still fine... for now...**

France has the **highest number of private aircraft movements** of any country in Europe (over 120,000 at the last proper count in 2019), and there is a plan to crackdown on this too.

What this means right now is that if you regularly fly private jets into France, have a think about how to reduce this because it is being monitored and could have a big impact in the future.

### **The Why.**

Well, for **environmental reasons** mostly.

The prohibiting of these three routes alone will lead to a reduction of around 55,000 tonnes of CO2 emissions from air transport. Using more trains on them is still calculated to lead to an overall reduction of around 50% (worst case) and as high as 98% (in a really best case world).

### **The impact on BizAv.**

The impact on BizAv is not big now. In fact, the reduction of scheduled services into LFBD/Bordeaux, LFLL/Lyon and LFRS/Nantes **might mean some additional space** for your private flights. Not so much LFPO/Orly because its a fairly busy airport and 3 routes probably won’t mean much extra space. But this might also mean an **increase in charges** as the airports look to reduce the loss in revenue from having these routes cancelled.

---

# **China Crew Hotel 101**

OPSGROUP Team  
6 December, 2022



This is one for any crew who head into China.

### What happened in Urumqi?

People in China are angry.

There are currently protests across many major Chinese cities, including Beijing and Shanghai. Which is unusual because protests are very frowned upon in China, and generally lead to quite **a heavy handed police response**.

So when they do protest, you know it is over something they feel strongly about.

They are **angry over Covid lockdown rules** which saw a 10 people perish in a tower block fire in Urumqi. Questions have been asked over whether residents were allowed to leave their homes, and whether the fire exits were clear.

### What does this have to do with crew?

There are two things worth considering if operating into China:

- The security situation
- The hotel room safety situation

### The Security Situation

Crew are not allowed out of their quarantine hotels, so the protests themselves will not impact you directly. However, **a stricter level of Covid rule compliance** might.

Currently, crew are required to don full 'anti-Covid' suits on arrival (while still on the aircraft), and are accompanied through airports, bused to hotels, and required to remain within their hotel rooms.

**Member Top Tip:** "They don't generally provide big sizes. If you need an XL it might be worth getting your local agent to arrange this, or you're going to find yourself trussed up like a sausage inside an 'average'" sized suit."

The rules have eased a little, but are still subject to change at short notice, and entry requirements for crew are not always entirely clear. **The best people to ask are your local agents at whatever airport you are heading into.**

We recommend that you:

- Follow the rules pretty strictly. Easier in the winter months when it is not baking hot (those suits are the worst in the summer). Non-compliance is likely to lead to fines, potentially banning your operator from returning to China, or you may be subject to more quarantine.
- Prepare for lengthy delays in and out of the airport and factor this into your report times.
- Do not vocally criticise in a way that might be perceived as a protest against Chinese law or the government.

### **But what's this about hotel room safety?**

Some crew have reported that they are not only quarantined in their hotel rooms, but they are *locked inside* their hotel rooms, **unable to open the door from the inside.**

**This is not safe.**

*If you or your operator has experienced this, please let us know at [news@ops.group](mailto:news@ops.group). We might not be able to do anything to help, but we can share the hotel info with other operators so they know about it.*

You must be able to unlock your hotel room from the inside in order to **evacuate in an emergency**. Your hotel room should also be **equipped with a smoke mask**.

- **Checking with the hotel prior to operating in** and raising this is a good idea. Doing so once there may prove difficult. Bear in mind, these are generally government selected hotels for crew as well. You don't get much say in where to stay.
- On arrival, **crew should pay particular attention to how to access emergency exits** because these hotels tend to have significant 'plastic coating' on their interiors, and it may be difficult to locate exits in an emergency.
- If in doubt over your safety, **don't remain in the room because they've told you to**. Get yourself out and safe, and worry about the repercussions of that afterwards. I'm pretty certain they'll be less serious than the consequences of staying locked inside a burning hotel!
- Make sure your crew have **contact information in case of a medical emergency** while in China.

### **Monitor the food situation**

*Folk report this is slowly improving.*

If you haven't been, then here's the deal – basically your hotel is going to provide you with meals. These are usually **left in boxes at specific times outside the room**, and you're allowed to open up and take them inside.

There are two issues here:

- They are not always catering to 'Western' food preferences.



- There doesn't appear to be any way to report allergies.
- Chinese food often contains MSG, which you may have an allergy to without knowing.
- They often provide them based on Chinese meal timings, which can be tough with jet lag/sleep plans etc.

Good news is you can get in touch in advance and ensure you request food that your crew can eat, and that it is provided at times they will want to be eating at. Alternatively, recommend **crew take their own food with them.**

### A little note on Customs

China readopted their Health Declaration Measures, since November 16. Make sure you submit the form and **download the QR code before** heading over. There is an APP for it that makes it handier, and the website is here for all the info you might need.

---

## Don't say Hi to Jack!

OPSGROUP Team  
6 December, 2022



Attempted hijackings of major airlines have decreased because of big advances in security and safety.

But, reports of an apparent attempt on an Emirates aircraft surfaced on November 10, so we thought we would take a look at those security procedures, ops procedures and some FAA door related news, to help you stay safe in the skies.

### The 'was it a hijack attempt?' reports.

Look, we don't know, and **we aren't into speculation.**

All we've seen is a bunch of news sites saying a 777 was diverted back to Athens after taking off for New York, possibly accompanied by F-16s, possibly with reports of a possible suspect onboard, possibly under a 'Code Renegade'.

It landed safely, and there will likely be detailed reports out about it at some point so we are going to leave it there.

Hijack attempts are not common anymore, mainly because security procedures have been developed so much to help prevent them.

But we don't want to get complacent about it, because most of those procedures fall on us (the operators and the air crew).

So we figured a recap on what some of these procedures are, and what it might mean for you ops-wise could be handy.

## On the ground

Security stuff starts on the ground. Actually it hopefully (if the systems work) should start and also end here.

If you're up for a lengthy read, then check out the **minutes of a major meeting** which took place 10 years after Sep 11th (in 2011, so over ten years ago now) on changes to TSA procedures and processes. Here they are. Read away.

Basically, there are A LOT of procedures and processes for ensuring only 'good' passengers get on airplanes, and a lot of this lies in the Customs systems that are now in place.

We are going to be **super lazy here** and say '*go read this NBAA post*' if you have questions on the specifics of customs and regulations stuff. It's a big old topic and all we're really trying to do here is say **"make sure you get the customs bit right"** (not actually tell you how to).

*\*But if you do have questions, let us know and we'll root out some answers for you.*

- In general, if you're a big airline or commercial operator, a lot of this is going to be done for you at the airport
- If you're a **private or business jet operator** (*that doesn't just fly the owner around*) then you might need to do some more checks yourself (*or more stuff to ensure you're compliant with required security and document checking regulations*).

Here are some vaguely helpful links:

- The US CBP website is filled with info on all things US Customs and Border, along with a bunch of info on things to help speed up the process for pax.
- Your US pre-clearance airports are listed here, along with info on that.
- For international folk arriving into the US, you might want to look at APIS (Advance Passenger Information System Manifest) Transmissions if you don't already know what these are.
- There are fairly hefty fines for the PIC of a private aircraft if you don't follow the US regulations. If you have any questions, try these folk - [GAsupport@cbp.dhs.gov](mailto:GAsupport@cbp.dhs.gov)
- There is some CANPASS info here for if you want to fly to Canada.

- There is some ETIAS info here for those of you planning trips to Europe.

## In the air

Let's jump right in with some **regulatory stuff**:

The US, UK, Europe (and a fair few other places) have fairly strict procedures in place for who can sit in the flight deck jump seat. This doesn't just apply to aircraft registered in whichever place either. **If you are operating into their airspace you probably still need to be thinking about this.**

And we're talking about what the authorities say, not what your company says. This might be stricter (so check that out for yourself).

The basic rule for most places is that during the flight **anyone in the flight deck needs to be authorised to be in the flight deck.**

**What this means can vary though.**

In the UK for example, only members of the operating crew (the pilots actually flying the thing on that flight) may be in there. No supernumerary crew. No pilots who work for the company, have that type rating, but are just positioning.

There are other authorised folk too:

- Like an aviation authority air carrier inspector.
- A DOD commercial air carrier evaluator.
- An ATC person (but only if authorised by the administrator, and only so they can observe ATC procedures).

You know what, rather than us writing it all out:

- Go look here for the FAA stuff.
- You can try here for the UK CAA stuff.
- And here for EASA (Europe) regs.

## Remember German Wings?

The German Wings event brought in **a bunch of big new regulations in the EU**. The main ones being:

- **Regulation 175** which requires airlines ensure all pilots receive a psychometric evaluation within 24 months of employment and before they start their line flying
- A requirement to always have more **than one person in the flight deck**

The second one was problematic. It added an extra layer of hassle when pilots needed to leave the flight deck to use the toilet, (and an added layer of embarrassment when you've had to ask for the fourth time in under an hour). This has been removed and is now just a requirement within certain operator policies, rather than a state or authority requirement.

**Not letting random passengers in, in flight, is still a thing though.** As is looking after the well-

being and mental resilience of your crew and colleagues.

### **The FAA Flight deck barrier policy.**

September 11th brought about a new focus on flight deck security. Namely, **folk can no longer fly with their doors open, and access must be controlled.** This applies to commercial aircraft, it may not apply to your private aircraft.

So, for those it does definitely apply to – a secured door with an access code, or a secure access procedure is required. This is covered in § 121.587 *Closing and locking of flightcrew compartment door* and says:

(a) Except as provided in paragraph (b) of this section, a [pilot in command](#) of an [airplane](#) that has a lockable flightcrew compartment door in accordance with § 121.313 and that is carrying passengers shall ensure that the door separating the flightcrew compartment from the passenger compartment is closed and locked at all times when the [aircraft](#) is being operated.

(b) The provisions of paragraph (a) of this section do not apply at any time when it is necessary to permit access and egress by [persons](#) authorized in accordance with § 121.547 and provided the part 119 operator complies with [FAA](#) approved procedures regarding the opening, closing and locking of the flightdeck doors.

[Doc. No. [FAA-2001-11032](#), [67 FR 2128](#), Jan. 15, 2002]

Recently, the FAA have recently published a new thing on **flight deck door barriers**. Something the likes of ALPA have been asking for since 9/11.

The summary is that it will apply to **“certain airplanes used to conduct domestic, flag, or supplemental passenger-carrying operations”**. This won’t apply to Part 129 (which is foreign operators heading into the US, or US registered ones that only operate outside the US).

The ‘secondary barrier’ creates an extra level of security by requiring that, prior to the flight deck door being opened, this must be secured shut like a sort of cattle gate.

### **Knock knock. Who’s there? Jack!**

#### **If you do have a hijacker onboard then remember three things:**

- Don’t open the flight deck door
- **Don’t open the flight deck door!**
- Do squawk 7500

#### **If you don’t want ATC thinking you have a hijacker onboard:**

At any point in flight, (sort of goes without saying, but we’ll say it anyway), **maintain good radio communication.**

**There are a lot of ADIZ (military airspaces)** out there where you must check in, in advance. There are also a lot of **conflicts** going on which mean countries are particularly cautious when it comes to aircraft not in contact with who they should be in contact with.

If you don’t want some F16s to come swooping up alongside you then:



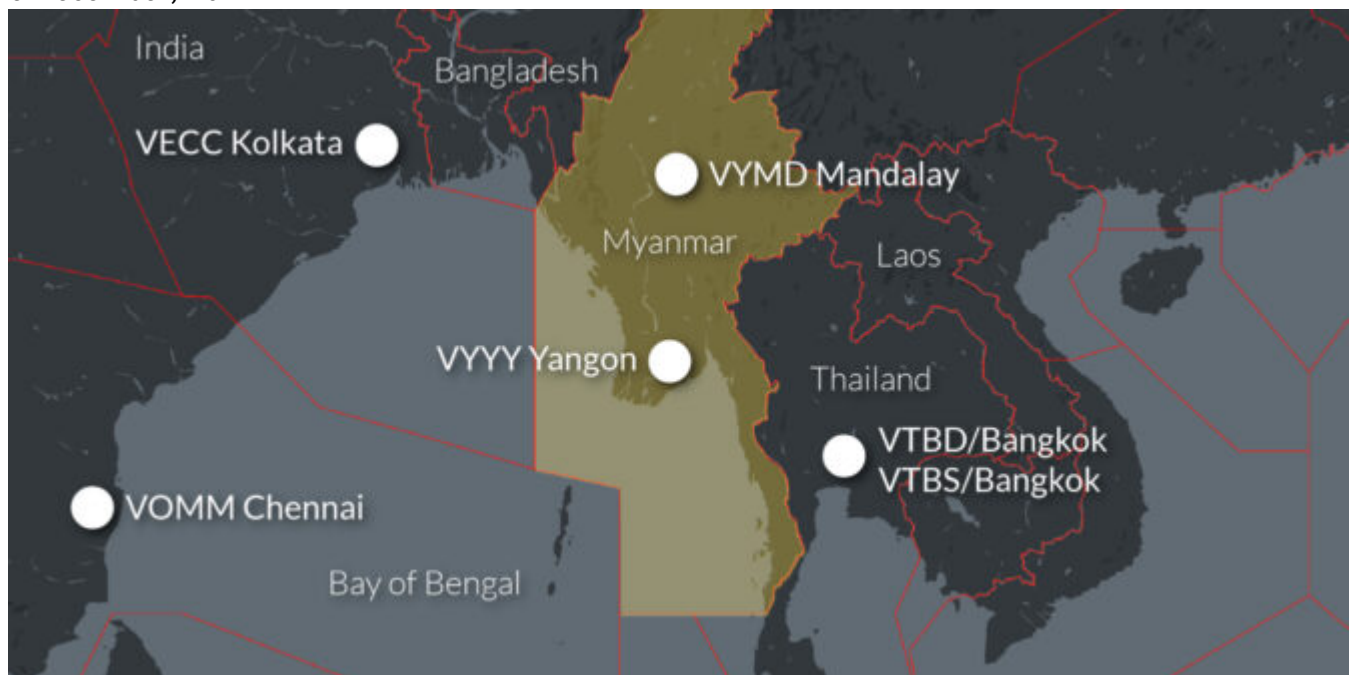
- Don't miss radio calls.
- Do check in (in advance) if the airspace requires you to.
- Do try other systems or get relays if you lose contact.
- Don't accidentally stray into airspace you aren't cleared to fly into.

And if you don't have an attempted hijacking going on then definitely don't do what a South African crew accidentally did in 2016, or what a 747 crew for a major US airline did in 1999. You read about those embarrassing incidents [here](#).

---

## What is going on in Myanmar?

OPSGROUP Team  
6 December, 2022



**A new airspace warning for Myanmar** was issued by Germany on 23 November 2022. EDWW B1361/22 is valid through to February 2023, and looks like this:

*SECURITY - HAZARDOUS SITUATION IN MYANMAR CIVIL GERMAN AIR OPERATORS ARE ADVISED TO TAKE POTENTIAL RISK INTO ACCOUNT IN THEIR RISK ASSESSMENT AND ROUTING DECISIONS WITHIN FIR YANGON (YFFF) BELOW FL160. POTENTIAL RISK FROM MILITARY OPERATIONS, SURFACE-TO-AIR FIRE AND ANTI-AVIATION WEAPONRY. CREATED: 23 Nov 2022 09:08:00 SOURCE: EUECYIYN*

**Take potential risk into account if planning on heading below FL160 in the YFFF/Yangon FIR.**

You might not be a German operator, and as far as we know this is the only warning out there.

The UK hasn't issued one. France hasn't issued one. EASA haven't mentioned it, the FAA haven't either... but since Germany has, it is probably worth thinking about (whoever you are) if you operate in any way in

the Yangon FIR.

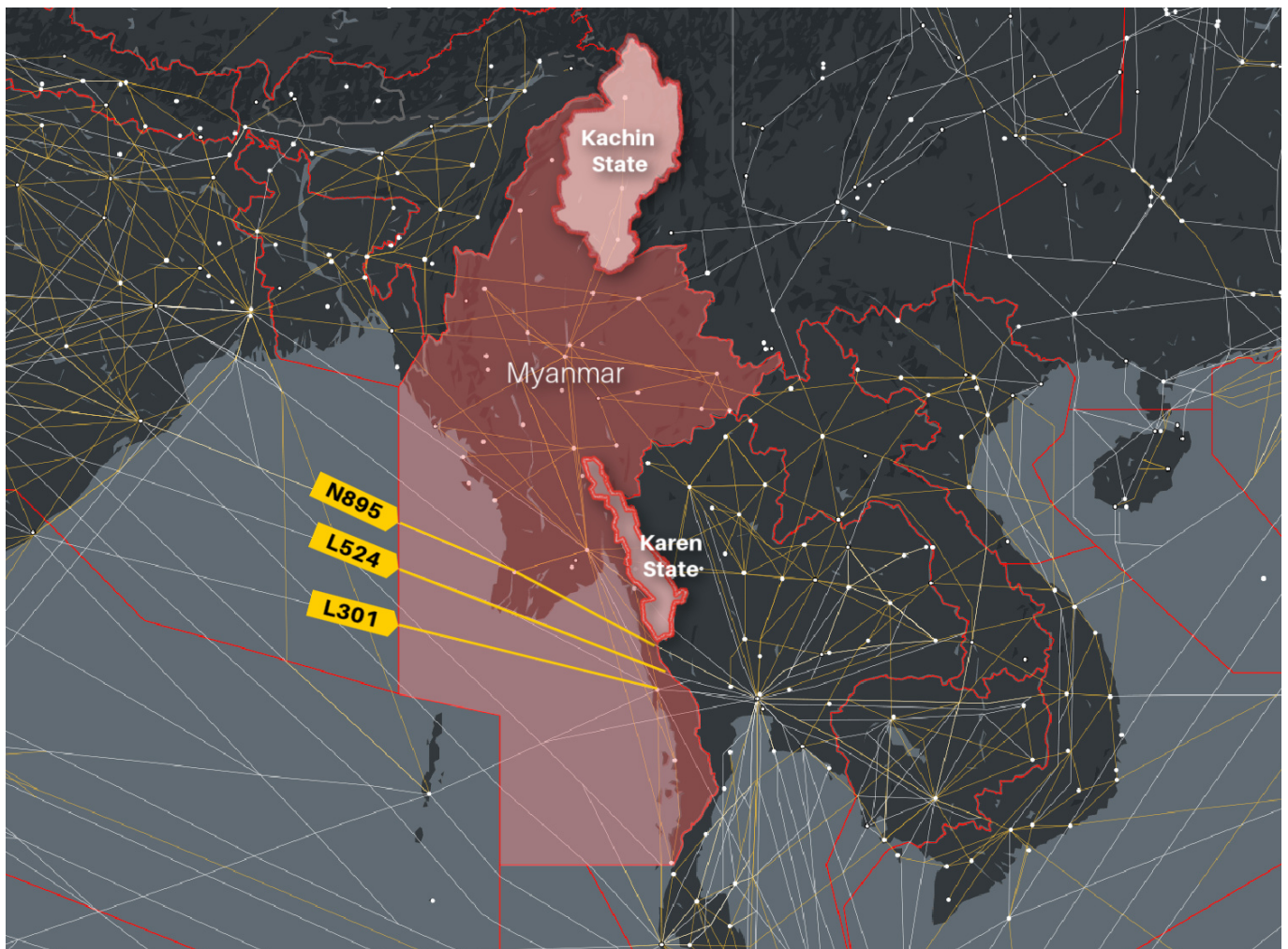
## So, what is going on in Myanmar?

**Myanmar had a military coup in February 2021.** You might remember it because a sudden, significant lack of ATC occurred across their airspace.

We covered that here in a whole lot of detail, but in short: **the majority of ATC and AIS staff went on strike**, leading to contingency procedures (ATC zero) and very limited notams for a while. Since then, ATC and AIS services are back up and running.

But there has been **growing unrest in the country** with increasing numbers of strikes and mass protests by opposition groups. The response has been an **increase in military force resulting in clashes as well as airstrikes** on areas where militia are known to be active.

Security and safety within the country is deteriorating, and **airspace risk is increasing** because of the potential risk from military ops, surface-to-air fire and anti-aviation weaponry.



## Passenger injured by bullet.

On Sep 30, 2022, a Myanmar National Airlines passenger was reportedly shot in the face as **bullets passed through the fuselage of the ATR 72 aircraft on approach to VYLK/Loikaw.**

Myanmar's military gave a statement at the time saying the aircraft came under fire at a height of approx 1,000 m about 4 miles north of Loikaw Airport, and blamed the attack on two resistance forces – the Karenni National Progressive Party (KNPP) and the People's Defence Force. KNPP reportedly said that they

were not involved, and avoid civilian targets.



### **The military are also a concern.**

Cambodia recently 'disinvited' Myanmar from attending a major defense meeting involving the Southeast Asian Nations (ASEAN), as they wish to '*diplomatically isolate the military regime*'.

This isn't quite 'sanctions level' from Myanmar's neighbours, but it is an indication that the ruling government's method of controlling the situation is not one which is ensuring safety and security in the country.

There are travel warnings in place, including ones from the UK and the US, and the US Embassy issued a new warning on Nov 29 warning of a general increase in violent attacks in the country. **If you do have crew heading in, consider the information in these**, and think how it might impact your crew:

- Security and safety due military response to gatherings and protests is a concern



- Airspace risk due military traffic and airstrikes is a concern

## US Sanctions?

**The FAA doesn't have an airspace warning**, but they do have something, and it can be read here (it's under the FAA prohibitions, restrictions and notices bit).

Re-issued in January 2022, this advisory is from the **OFAC (Office of Foreign Assets Control)** and it talks about the *"Risks and Considerations for Businesses and Individuals with Exposure to Entities Responsible for Undermining Democratic Processes, Facilitating Corruption, and Committing Human Rights Abuses in Burma."*

Basically, **be careful doing any sort of business** with anyone there, because if it's with Tatmadaw (that's the military folk) you could get into trouble with the US, or with Tatmadaw (because they're apparently quite corrupt).

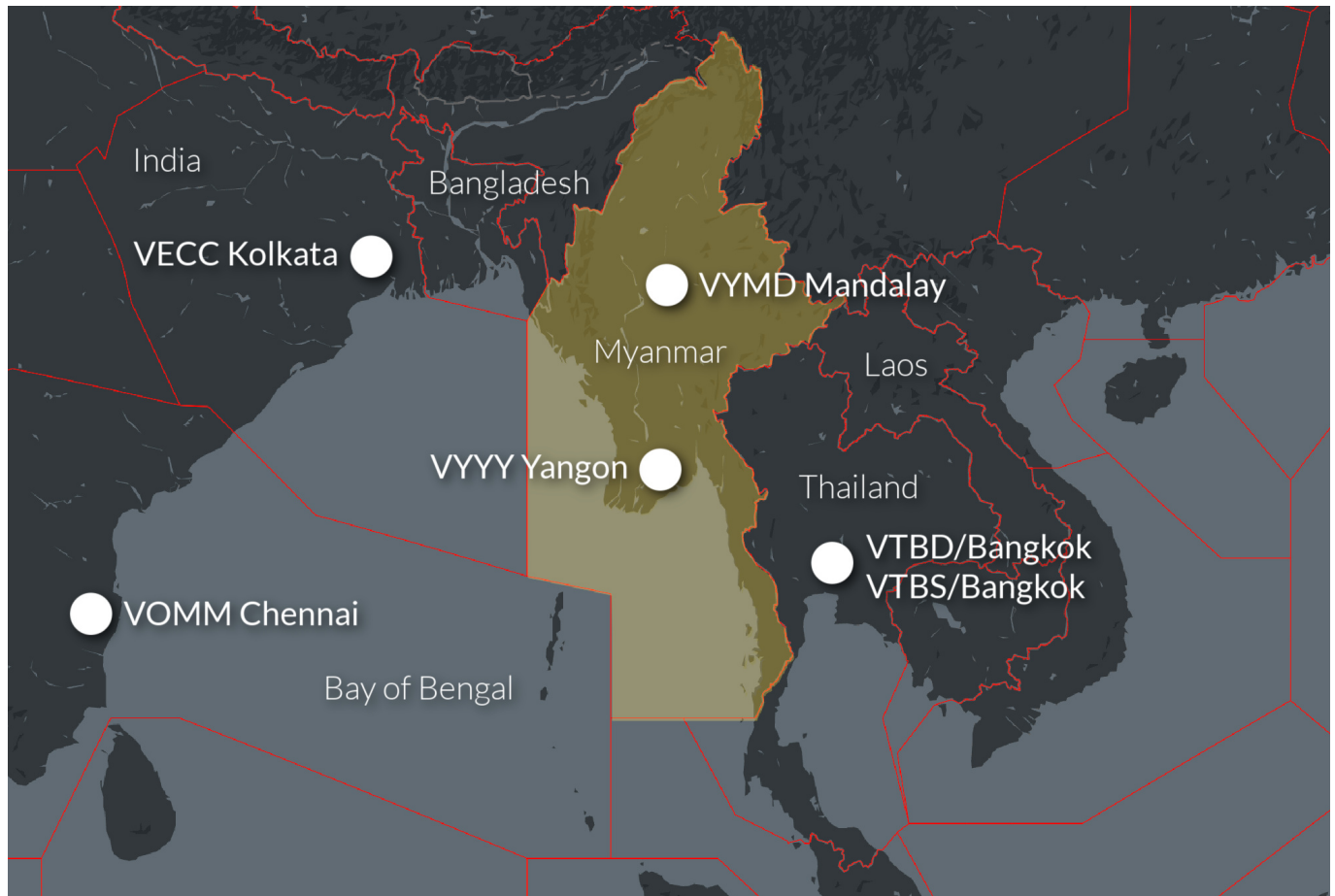
Most goods from Myanmar cannot be imported back to the US. While other sanctions have eased off a bit, you can still **run into issues with paying for fees** (overflight permits etc) so using a 3rd party service (that has an OFAC licence) to organise these may prove easier.

## Some general considerations.

Here are some general considerations and info, to help you plan:

- **VECC/Kolkata**, India, is a good diversion airport if needed to the west of Myanmar. It has 2 runways, 01/19 L/R and both are over 3000m. There are CAT II/III approaches available.
- **VOMM/Chennai**, India, is a good option if on a more southerly routing. 07/25 is over 3500m and has an ILS. 12/30 is 2800m and RNP only.
- **VTBS/Bangkok Suvarnabhumi and VTBD/Bangkok Don Meang**, Thailand, are decent options just to the east of Myanmar. VTBS has 01/19 L/R which are both over 3500m and CAT II. VTBD has 03/21 L/R, over 3000m and CAT II capable.
- More southerly routings will take you across the **Bay of Bengal** and you will only cross a thin sliver of Myanmar land, but the airspace itself continues quite far south. This may be preferable if routing towards Malaysia, Singapore or Indonesia.
  - L301 is mostly offshore, crossing the small sliver of land prior to the Thai border. M770 is offshore, routing SE.
- If routing towards Hanoi, Hong Kong and Taiwan you may find a more northerly routing which crosses central Myanmar is required.





### Myanmar airspace and airport considerations.

- **VYYY/Yangon** airport has runway 03/21 which is 3414m, with an ILS CAT I.
  - **MJets are the main FBO** +951 401 590 / +95 978 639 5811 / yangon@mjets.com
  - There were reports of explosions and gunfire at an army checkpoint near VYYY/Yangon airport during protests in 2021
  - There were reports of difficulty uplifting fuel at VYYY/Yangon due to local political restrictions. While this was in 2021, ongoing concerns regarding **military airstrikes against civilians may lead to fuel sanctions** from foreign suppliers, leading to a shortage for civilian aircraft as well.
- **VYMD/Mandalay** airport is an international airport. Runway 17/35 is over 4000m, with an ILS CAT I on 17.
  - There are notams downgrading RFF to 7, and advising the AWOS is u/s.
  - The city itself has seen heavy military action and is considered a security and safety risk on the ground.
- **There is an ADIZ within the Yangon FIR.** You do need to check in in advance with them, and they do sometimes request confirmation of your ADC number.
- **There may be an increase in military traffic.** Caution with radio comms and accurate navigation is important.
- **Weather can be challenging in the entire region.** Consider it in advance in case detours

are required.

- Yangon has **CPDLC (VYYF)** but it isn't compulsory.
- M770, L301 remain offshore. L524 passes over the southern tip. N895 routes across Myanmar.

#### **Last but not least, permits:**

- You need a permit for everything here. Takeoff, landing, overflights, and regardless of whether you're private or commercial.
- **Navigation fees have to be paid in advance.** If you have time you can set up an account with the CAA and apply for your permits directly. If not you can use an agent who can pay these on your behalf (and we recommend that). You need to give **five days notice for landing and three days notice** for overfly permits. Here's a handy list from Asia Flight Services for all the prices in the region.
- DCA +95 1 533015 / dgdca@dca.gov.mm
- **Asia Flight Services** +66 2329 5938 / occ@asiaflight.aero

**Member Top Tip:** *"If you are planning of fly any sort of business jet into Myanmar, be prepared to have a lot of cash (USD preferred). They assume that business jets are full of wealthy individuals and 'expediting fees' are often liberally requested. This is one of those places you don't want to negotiate, just pay and get in the air as soon as possible."*

**Member Top TIP:** *"Paying in USD is preferred. Some pointers on condition of the notes that will be accepted:*

1. Notes have to be new ones
2. Notes have to be clean, devoid of any writing, marking, stamp, bank seal etc
3. Notes cannot be folded or with creases
4. No hole or tear allowed on the note"

---

## **PIREPs of the Caribbean**

OPSGROUP Team  
6 December, 2022



It is heading, at a chillingly fast pace, into winter in the northern hemisphere, which means we usually write posts on ski season spot ops. But we did that last year, so this year, we thought a nice hot weather one could be fun instead.

Which is why this is a post all about operating to the Caribbean.

*\*There is nothing about PIREPs in this at all, I just thought that was too good a pun to not use.*

### **When is peak season?**

That would be now: Late November to mid April.

### **It is peak for two reasons:**

- **One**, its still nice weather there while the northern hemisphere is generally in the midst of cold and wet misery so like winged sunflowers, or maybe moths, everyone starts heading for the sunshine.
- **Two**, there are a bunch of big holidays like Christmas and New Years and people like to go somewhere nice to celebrate.

All this means **a lot more GA traffic** which means busy airspace, delays, and parking problems if you haven't pre-planned.

### **What to pre-plan?**

Read this very helpful post from the folk at Universal Weather. We could re-write it all out for you here but seems pointless when they've done such a good job. And all that permit parking slot stuff is dull.

### **So, on to more interesting stuff.**

We thought we might take a look at the airports themselves instead, because there are challenges that will really *shiver yer timbers* if you don't know about them.

While looking up information, we also discovered this old pirate map in an ancient bottle of rum ☐ ☐🏴‍☠️

## The Airports



**TNCM/Princess Juliana, St. Maarten, *Netherlands Antilles***

**Hours:** 0700-2100L, O/T O/R PNR available for non-scheduled flights

**Runway/Approach info:** 10/28 7546'/2300m RNAV/Visual RFF9

**Timber shivering stuff:** You're going to need a special qualification to head in here. It has some unusual procedures because of the big old mountains near it. There is Class C airspace right above it and it all gets super congested there.



**TIST/ Cyril E King, St. Thomas, *Virgin Islands***

**Hours:** 0700-2300L, US preclearance airport

**Runway/Approach info:** 10/28 7000'/2134m ILS 10 RFF7

**Contact Info:** Airport +1 340-774-5

**Ahoy matey! What else can yer tell me?:** Another one needing special qualification due hills. They also have noise sensitive areas, class c airspace and all the congestion that comes with it, and turbulence and wind shear to deal with.



**TUPJ/Terrance B Lettsome (Roadtown), Tortola, *Virgin Islands***

**Hours:** M-F 1230-2030Z, O/T PPR

**Runway/Approach Info:** 07/25 is only 4646'/1416m with an RNAV to 25 RFF5

**Contact Info:** Airport +1 284-394-8000/ FBO: IAM jet centre +1 284-495-0303 eisops@iamjetcentre.com

**Yarr! Argh! stuff:** Smaller airport. It is hilly around the airport, and the short runway ends in water... There are also no VFR ops by night.





**TBPB/Grantley Adams, Bridgetown, Barbados**

**Hours:** H24

**Runway/Approach Info:** 09/27 11017'/3358m ILS 09/RNAV RFF 9

**Contact Info:** Airport +1 246-536-1302/ FBO: IAM jet centre 1 246-428-1704 aviation@iamjetcentre.com

**Avast, ye scurvy threats:** This big one can handle big aircraft, although there are some ground restrictions for the medium and heavy folk. There are NABT procedures too. Nice one for tech stopping and maintenance action.



**MYNN/Lyndon Pindling, Nassau, Bahamas**

**Hours:** H24R US Pre-Clearance Airport

**Runway/Approach Info:** 14/32 10925'/3330m ILS 14/RNAV RFF8 and 10/28 8302'/2530m RNAV/VOR

**Contact Info:** Airport +1 242-702-1010 feedback@nas.bs / FBO: Jet Aviation jnas@jetaviationnassau.com +1 242 377 3355 / Odyssey Bahamas info.mynn@odysseyaviation.com +1 242 702 0200

**Yo ho ho:** One of the biggers. Not without its challenges though. There are prohibited and danger areas near the airport to look out for. These mean some special IFR departure procedures if heading W, SW or NW (basically anyway involving some westwardly way). Lots of traffic below 10,000' here too



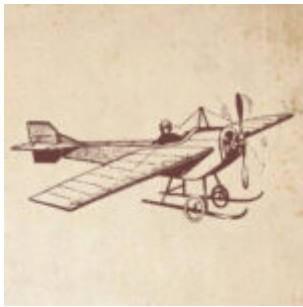
**MWCR/Owen Roberts, Georgetown, Grand Cayman, Cayman Islands**

**Hours:** Ops 0700-2100L, O/T O/R; Admin M-F 0830-1700L

**Runway/Approach Info:** 08/26 7867'/2398m RNAV RFF7

**Contact Info:** Airport +1 345-943-7070 ciaa@caymanairports.com / FBO: Island air +1 345-949-5252 2 0200

**Here be treasure, matey:** They don't have radar here, but they do have noise sensitive areas so navigate carefully.



**TAPA/VC Bird, St.John's, Antigua**

**Hours:** H24R

**Runway/Approach Info:** 07/25 9967'/3038m RNAV (GNSS) RFF8

**Contact Info:** Airport +1 268-484-2300 info@abairportauthority.com / FBO: Signature +1 268-462-2522 ANU@signatureflight.com

**May yer compass be true:** This has some skinny little taxiways that anything over 65000lbs, or with wings over 100' (30m) isn't allowed to use (and they can only use by day). This means backtracking aircraft on the runway which means you'll probably have to hold on arrival for spacing. It is quite a popular tech stop airport though.



**MBPV/Providenciales, Turks and Caicos**

**Hours:** M-F 1230-2030Z, O/T PPR

**Runway/Approach Info:** 10/28 9199'/2804m RNP/VOR RFF 7

**Contact Info:** Airport +1 649-946-2137

**Wall the plank:** A bigger airport, this also has a lot go GA traffic and also some parasailing hazards to add to the fun.



**TQPF/Clayton J Lloyd (Wallblake), The Valley, Anguilla**

**House:** 1200-2000z

**Runway/Approach Info:** 11/29 5459'/1664m RNP RFF5

**Contact Info:** Airport +1264-497-2384/ FBO: Lloyd Aviation +1 264-498-4141 info@lloyd-aviation.com

**Sallywags:** Another little one that only allows IFR by night. There are a lot of poles, antenna and also birds around the airport. So keep a good look out (probably why its IFR only at night).



**MKJS/Sangster, Montega Bay, Jamaica**

**Hours:** H24R

**Runway/Approach Info:** 07/25 8735'/2662m ILS 07/RNAV 25 RFF 9

**Contact Info:** Airport +1 876-952-3124 Slots slotrequest@mbjairport.com/ FBO: IAM jet centre +1 876-979-3855 mbj@iamjetcentre.com

**Batten down them hatches:** A good tech stop spot, but look out for the mountains and the high minimas and the noise sensitive bits. Also look out for the many small airports (and traffic heading into them) which fill the airspace. They have some specific NABT procedures to look into, and it can get windsheary.



**MDSD/Las Americas, Santo Domingo, Dominican Republic**

**Hours:** H24

**Runway/Approach Info:** 17/35 11004'/3354m ILS 17/RNAV RFF9

**Contact Info:** Airport +1 809-947-2225 operador@aerodom.com/ FBO: Servair +1 809 549 1404 fbo@servair.com.do

**Other stuff:** Don't confuse San Isidro AB for MDSD. And don't head in unless you have the qualification – it's one of those because of the airbase and prohibited areas nearby. Terrain nearby is also a bit of a concern, as is FOD on the runway (not sure why, but enough to permanently mention it apparently). There are also minimum ceiling restrictions of approaches so worth familiarising yourself with the charts before heading in.



**MDLR/La Romana Casa de Campo intl, Dominican Republic**

**Hours:** H24

**Runway/Approach Info:** 11/29 9678'/2950m RNAV(GNSS) RFF8

**Contact Info:** Airport +1 809-813-9000 info@lrm.com.do/ FBO: Swissport Dominicana +1 809 813 9123 lrmexecutive@swissport.com.do / Universal Aviation +1 809 813 9070

**Hoist the mainsail:** This place requires a 180 turn and backtrack on both ends of the runway and has limited taxiway and apron space. There is a nearby restricted area and noise sensitive bits. ATC often speak in Spanish for local traffic so watch out.



**TJSJ/San Juan Luis Munoz Marin, Puerto Rico**

**Hours:**H24

**Runway/Approach Info:** 08/26 10400'/3170m ILS 08 / RNAV RFF8 and 10/29 8016'/2443m ILS 10 / RNAV

**Contact Info:** Airport +1 787-253-2329 info@aerostarairports.com/ FBO: Airport Aviation Services +1 787 791 8500/

Jet Aviation San Juan +1 787 791 7005 hector.vasquez@jetaviation.com

Pazo's fuel services +1 787-791-7005 fboservices@pazosfbopr.com

**Down to Davy Jones' locker with ye:** A good tech stop option. It does have some mountains nearby, and it is in primary Class C airspace.

Also don't get confused by TJIG/Fernando Luis Ribas Dominicci nearby

### **Where else can I get info?**

**Opsgroup wise:** we have a library of **Airport Lowdowns** that you might find useful. If you're a member you can also head to **Airport Spy** and read a whole load of reviews from other members sharing what they experienced.

For example:

**AOPA** make some very handy slot guides which you can find here.

They include useful stuff like info on airports, stuff to do while you're there, and photos of pineapples.

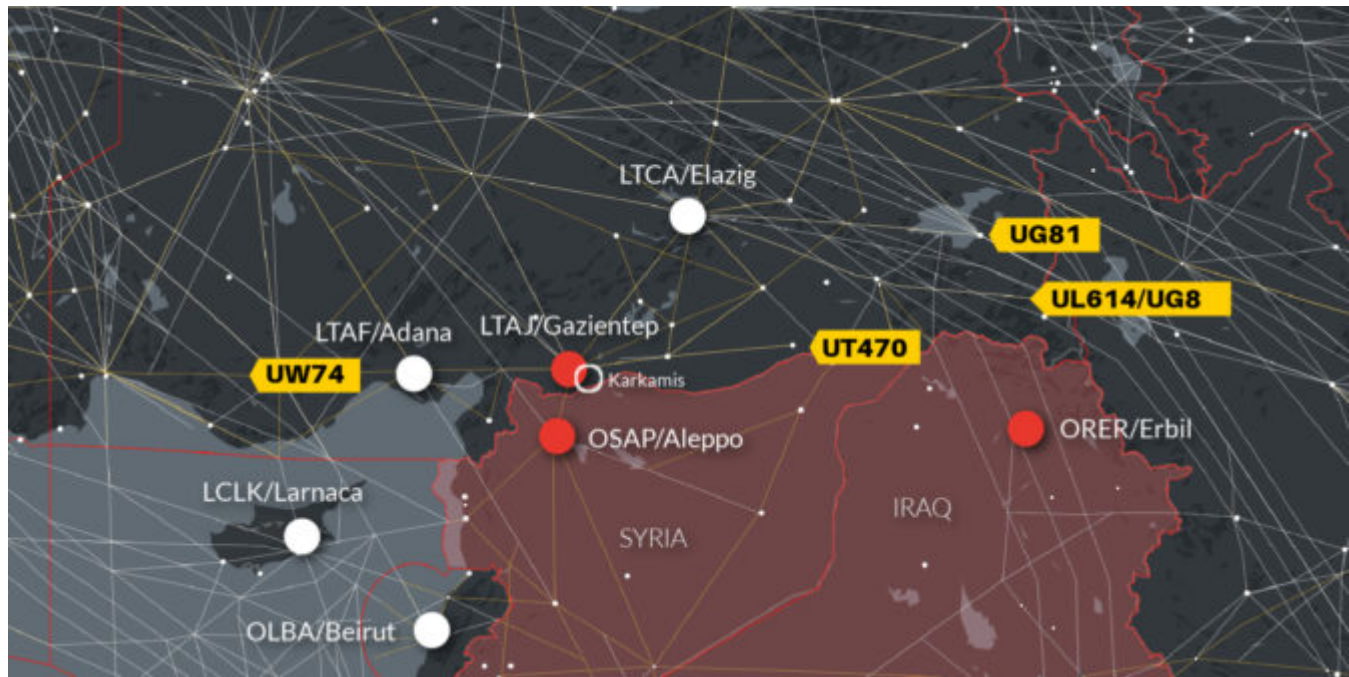
**The Caricom e-APIS** site is here. You'll need this for advance information sending about passengers.

**The FAA guide to the Caribbean en-route stuff** can be discovered here. This is a treasure trove of information on en-route stuff, weather stuff, and all things to do with operating in the airspaces.

---

## **Turkey, Syria and Iraq: Airspace Risk**

OPSGROUP Team  
6 December, 2022



The airspace risk in Syria and Iraq are both discussed regularly, with numerous warnings and prohibitions from major authorities.

However, Turkey is seeing an increase in security and safety concerns along its **southern border with Syria, and the eastern region which borders Iraq**, because of the conflict and tensions in this region. And not a lot is said about it.

### Why is Turkey seeing increased risk?

*Keeping this as simple and non-political as possible because it is really just for context* – Kurdish people are an ethnic group native to Kurdistan which is a big area spanning southeastern Turkey, northwestern Iran, northern Iraq and northern Syria.

Here's a map of it:

Turkey has an **ongoing conflict with armed Kurdish groups**, particularly one called the PKK who have fought against Turkish authorities since the 1980's, hoping to establish an independent Kurdish state.

In addition to this, Syria have their own civil war also involving their Kurdish population, as does Iraq. Turkey borders each of these countries, and spillover from these has led to more and more military action by Turkey.

### Risks for aviation:

There are two main risks previously highlighted:

#### 1. Misidentification and anti-aircraft weaponry

**The primary risk is misidentification** by local militia who infrequently target Turkish military aircraft with MANPADS and weaponsied drones. Operations to LTAJ/Gaziantep should be carefully reviewed given its proximity to the Syrian border.

The US FAA published a note on Turkey in 19 May 2021 referring to the threat from militia with access to anti-aircraft weaponry.

#### 2. GPS jamming



**The secondary risk is GPS Jamming.** Turkey has long been an area which sees significant GPS Jamming. There are **frequent reports from crews of GPS signal interference** in Turkish airspace – with some as far away as abeam Baghdad. GPS jamming is common through the LTAA/Ankara FIR, and especially on the border between the ORBB/Baghdad and OIIX/Tehran FIRs.

Turkey Notam LTAA A6691/22, valid through to 6 January 2023 relates to GPS Jamming.

## **Other growing risks for air crew and air operations:**

### **1. Security on the ground**

**Security in major cities**, and in regions along the border, in southern Turkey is a growing concern. Crew should be aware of these and should avoid travelling close to the border regions.

Caution should be taken if visiting large public spaces and tourist areas as there is a **heightened risk of terrorism**.

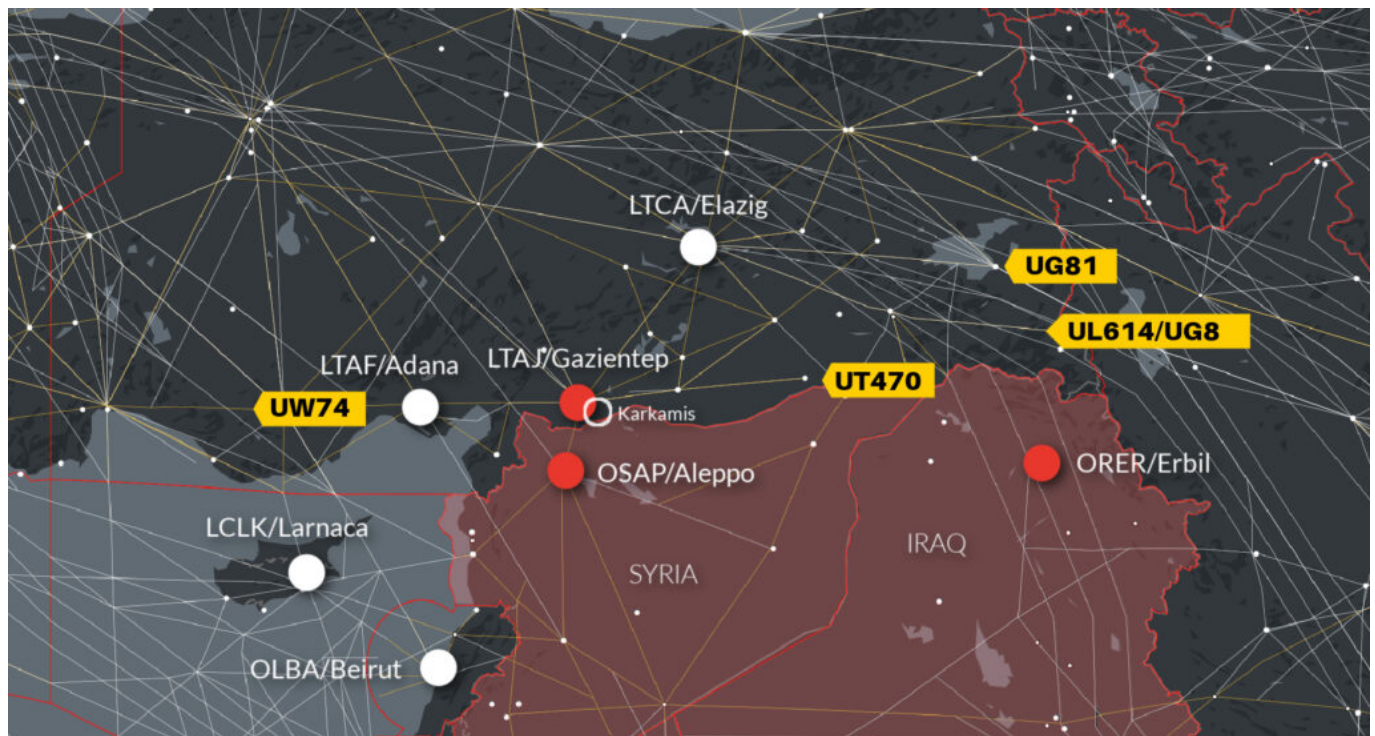
Prepare for **potential disruption and delays due heightened security** in airports.

**Consider the implications of diverting** to airports where you have no ground contacts, engineering or support. There may be political concerns to consider as well depending on the nationality of your crew or passengers.

### **2. Risk in southern Turkish airspace**

Along the border with Syria and Iraq in proximity to conflict zones, there is a **higher level of airborne military traffic, UAS and the risk of proximity to airstrikes**.

Most major authorities advise operators to exercise caution when operating in the airspace within **200 NM of the Damascus FIR (OSTT)**, which should be considered to include the southern region of Turkey as well as the countries neighbouring Syria to the west.



## Major events

- On Nov 21, the Turkish border town of Karkamis was hit by **artillery and rockets from across the Syrian border**.
- On Nov 13, a **bomb attack in Istanbul** attributed to the PKK resulted in Turkey carrying out airstrikes against Syria and Iraq. Operation Claw-Sword is reported to have involved **70 aircraft and drones**.
- In May 2021 an attempted drone attack by local militia on LTCC/Diyabakir airport in South Eastern Turkey.
- In Jan 2019, Turkish security forces intercepted three weaponised drones during attempted attacks against sites in southern Turkey.

**A full briefing on Turkey** can be found on [Safeairspace.net](https://Safeairspace.net)

## Syria

**There is a high risk to civil aircraft.** Syrian airspace (OSTT/Damascus FIR) should be avoided entirely. Airspace adjoining the Damascus FIR is also at risk: Cyprus, Turkey, Israel. Total flight ban for US, UK and German operators, and several other countries have issued warnings to avoid the airspace of Syria.

**The primary risk** is a misidentification by Syrian air defense systems. Civil aircraft may be targeted in error, or caught in crossfire during ongoing air attacks involving Israel, Russia, Iran. Missiles may erroneously lock on to civil aircraft. Israeli airstrikes on Syria are regular, and do not show any regard for civil traffic.

**There is a clear risk to civil aircraft operating on airways UL620, UW74, UR18, and UP62.**

The FAA information on Syria warns the threat is extended to adjacent FIRs in the Eastern Mediterranean region including the LLLL/Tel Aviv, OJAC/Amman, OLBB/Beirut and LCCC/Nicosia FIRs. Use caution if operating in the area.

A full briefing on Syria can be read [here](#).





Shiveluch is a 70,000 year old volcano with quite a bad temper. We thought we might introduce you to this hot headed fellow because it might have an impact on aviation in the not too distant future.

It has been reported as 'extremely active' since November 20, and an eruption is expected imminently.

**Say hello to Shiveluch.**

Or **Шивелуч** to give him his Russian name since he is, after all, Russian.

Shiveluch lives on the **Kamchatka Peninsula** (the far east bit of Russia that sticks out into the Pacific Ocean, and the Sea of Okhotsk). Shiveluch and Karymsky are the most active volcanoes on this bit of land.

**What's the eruption history?**

He's been blowing his top for about 10,000 years, but the **current eruption period started in 1999** and he's kept it up with a fair few explosions, **frequent ash cloud spitting** along with 'incandescent block avalanches, and lava dome growth' since then.

In February 2015 the ash cloud (which is really the bit we're worried about in aviation) shot up to **30,000'** and **crossed the Bering Sea and into Alaska.**

In June 2022 it hocked up a dense ash plume which reached about **7 km in altitude.**

**Where will a big ash cloud potentially affect?**

Unfortunately this is dependant on how much ash he coughs up (historically quite a lot), and **which way the wind blows:**

- **UHPP/Yelizovo Airport** (Petropavlovsk-Kamchatsky)

This airport lies south of the volcano, on the peninsula, and is **popular fuel/tech stop for BizAv aircraft** but is currently not available anyway due prohibitions against operations into Russia airspace.

- **Alaska**

Alaskan airspace was affected back in 2015 and more recently in April 2022. Ash reached 32,000' and moved across the Pacific Ocean, **impacting traffic routing over the northeast region** and the Gulf of Alaska.

**PANC/Anchorage** could be affected, along with smaller airports such as **PADK/Adak** and airport along the Aleutian Islands currently used as fuel/tech stops while Russian airports are unavailable.

- **North Pacific/Bering Sea**

Aircraft heading between the USA and Asia utilise routings here which may be impacted by large ash clouds.

- **Japan**

Winds don't predominantly blow this way, but ash could potentially still disrupt airports and airspace in this direction.

**Keep an eye on him.**

You can read his full history here. They post **regular bulletins and reports** on the ongoing action.

The **Tokyo and Anchorage VAACs** monitor this volcano. You can find links to their sites here.

Volcano Discovery also provides some handy info on volcanoes and their current action.

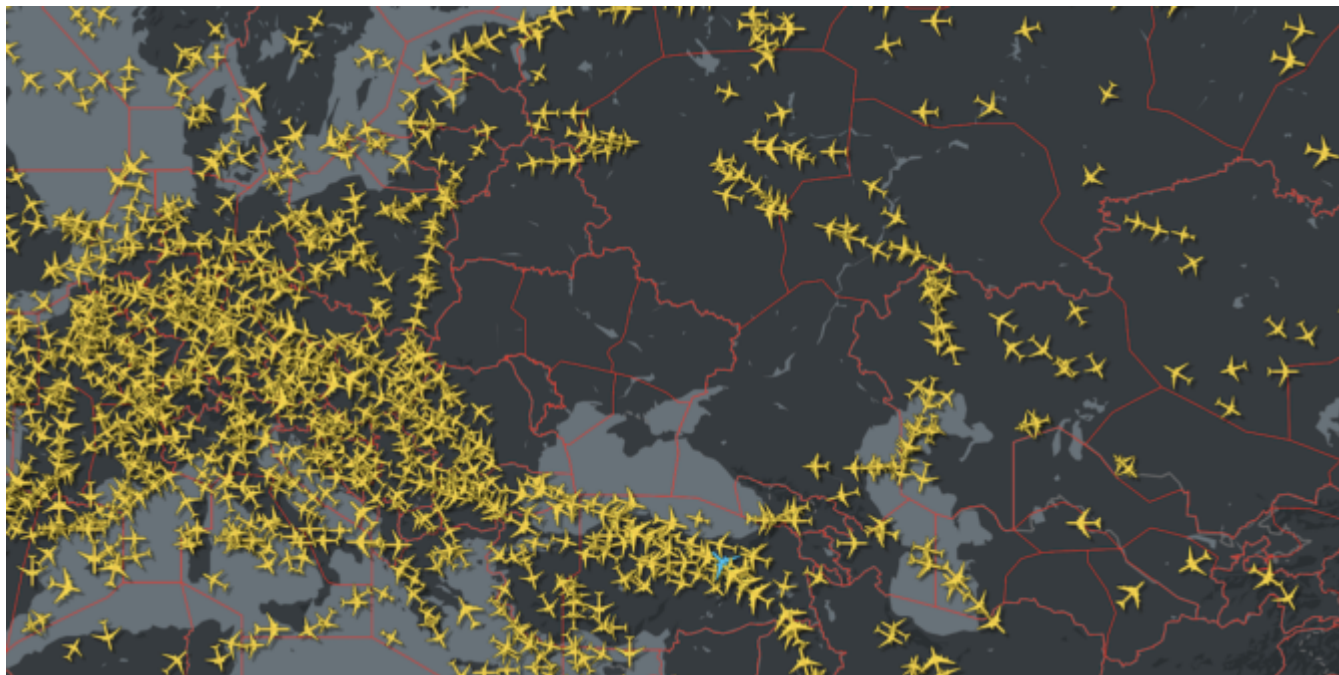
Look out for **ASHTAMs and SigWx information** for the North Pacific and Alaska region.

---

## **Ukraine-Russia Spillover Risks: Nov 2022**

OPSGROUP Team  
6 December, 2022





**A missile involved in the Russia-Ukraine conflict fell in Poland on Nov 15, close to the border with Ukraine.** There are no prohibitions or warnings for Polish airspace, however the border region is (clearly) high risk and operators should avoid flights in or over this area.

The following map shows two airways which lie in proximity to the border and which may be used by overflying aircraft. The airways routing into Ukraine, Belarus or utilised for routes into prohibited airspaces have not been highlighted.

The ongoing conflict between Russia and Ukraine continues to pose challenges and risks to international flight operations.

We covered these previously in this post which looked at:

- Ukraine, Moldova, Russia and Belarus **airspace closures**.
- Which countries have banned Russian aircraft and operators, and **which countries has Russia banned** in response?
- The differences between the **sanctions imposed on Russia** by the US, the UK, and the EU, and the nuances of how these sanctions may impact your flight.
- Considerations for operators now looking to **route around Russian airspace**.
- Information on **Humanitarian relief missions**.

## What has changed?

In terms of the above, very little. Ukrainian airspace remains closed and poses a significant risk to aircraft.

All the major countries who regularly issue airspace warnings (the US, UK, Canada, France, Germany, plus several more) have issued total flight bans for Ukraine due to risk from military activity at all levels.

**The primary risk is an unintended targeting of civil aircraft** by military, including misidentification (as with MAS17, UIA752).

**What has changed is the potential spillover risk.** The FAA has released an Information Note

regarding this, which you can read [here](#).

## What does it say?

Pretty much an updated report of what we said in this post back in March 2022.

In a nutshell – *“Russia’s increased use of developmental weapons, use of weapons in nontraditional roles, and long-range missile strikes into western Ukraine increases potential spillover risk concerns for U.S. civil aviation operations in adjacent airspace.”*

In other words, the risks and hazards are not necessarily confined to the geographical borders which are used to define ‘risky airspace’ (the areas covered by current conflict-related flight prohibition NOTAMs and other warnings).

**The three main points in the FAA Information Note are these:**

1. **Russia periodically launches missiles targeting Ukraine which transit Moldovan airspace.**
2. **There have been reports of comms and GPS jamming outside the conflict zone, particularly over the Black Sea and Caspian Sea.**
3. **Drone/UAS activity has expanded, especially around Crimea and eastern Ukraine.**

## 1. Missile launches

**Russia periodically launches missiles** targeting Ukraine from positions in the **Black Sea and Caspian Sea**. The flight paths for these generally route across Moldovan airspace.

Moldova initially closed all their airspace, but have since opened a section on their western border with the **LRBB/Bucharesti FIR for flights to LUKK/Chisinau airport**.

On Nov 15, **a missile fell in Poland**, close to the border with western Ukraine. It is not clear whether this was launched by Russia or by Ukrainian Air Defenses, but it signifies a heightened level of risk in regions bordering the conflict zone which are **not necessarily covered in prohibitions and warnings**.

An awareness of the **proximity to significantly high risk airspace** is advised.

The FAA SFAR related to the conflict and listing the prohibited airspaces can be read [here](#).

## 2. GPS Jamming

This has been reported beyond the regions outlined in NOTAMs and airspace warning areas.

Civil aircraft flights who route close to the borders of the conflict zone, or which transit the southern **Black Sea or northern Caspian Sea** may experience jamming.

A member reported – *“Flew recently from the UAE over Iraq and Turkey and over the western edge of the Black Sea. Once inside Turkey, the GPS signal was lost and remained out until northwest of the of western Black Sea. Dual GPS plus a portable GPS receiver confirmed the loss of signal. Also, no satellite wifi during same period.”*

**EASA has issued Safety Information Bulletin** on Global Navigation Satellite System (GNSS) jamming in the Baltic Sea area which you can find [here](#).

### 3. Drone/UAS hazard

**The use of Unmanned Aircraft Systems (UAS) has been increasing,** on the Russia side.

These fly at lower altitudes (they say a max of about 16,000') and there is a **risk of 'errant activity'** ie not flying where they should fly. In June 2022, one such errant UAS was reported in eastern Turkey.

These represent a hazard to aircraft given their size, the fact they are generally weaponised, and the fact they are not always where they are supposed to be.

#### Other spillover risks

These are not covered in the FAA note, but we figured worth mentioning anyway:

- **Increased traffic levels:** Turkey is seeing higher traffic levels due airspace closures, as aircraft now transit their airspace. There is also an increase in military traffic in airspace bordering the conflict zones.
- **Crew fatigue:** Longer routes, more challenges en-route, operational and planning challenges have not gone away, we are just staring to see them as the 'status quo'.
- **Ongoing fuel and energy supply issues:** These are more indirect, but the increase in costs and availability has led to some supply issues, as well as protests across many regions which means potential disruptions and security concerns.

#### Stay updated!

A full briefing on the airspace risks with up to date notice and NOTAM references can be found at [Safeairspace.net](https://Safeairspace.net)

**Please report back to us** any new info you come across (be it airspace risk related, or simply sharing your experience of a recent flight) and we can help redistribute that info back out to the group so that all are aware.

You can email us at [news@ops.group](mailto:news@ops.group), or file a report of a recent trip on our **Airport Spy** page here: [ops.group/blog/spyreport](https://ops.group/blog/spyreport)



Got some intel?

## Are you an Airport Spy?

You go to unusual places and see curious things. Your turboprop friends envy you. Now, it's time to give back.

For your next trip, pack a notebook, and file your Spy Report below. You'll get a weekly ops briefing in return.

[File your report](#) >

# The Safety Watchlist 2022

OPSGROUP Team

6 December, 2022



The Transportation Safety Board of Canada released its Watchlist for 2022, highlighting what they think the bigs and the bads to look at in the industry are. We figured it would be a lot of specifically Canadian things like grizzly bears on runways, and whether a hockey stick counts as a dangerous weapon when brought on board.

Turns out that it's all things which are *globally* big and bad. What's more, now the Covid stuff has (mostly) gone away (you might remember the whole pulling airplanes out of storage and finding bugs nesting in them fear), **these are big, bad things which we've been talking about in the industry for quite some time.**

So, because it's November 2022, which is basically December, which means the year is pretty much over, we figured we'd tell you all about it.

## The Highlights

*Seems an odd choice of word, theirs not ours.*

So, the first one on the list was something about commercial fishing safety. We aren't sure if we have any commercial fisherfolk at Opsgroup, apologies if we do, but we don't think so, so figured we would not pause too long on this one.

Same for railway signal indications. Not so relevant to aviation. We will say that following signals as a pilot is important though. If you don't **know your interception signals**, you can swot up on them here.

## Onto the Aviation highlights

There are 5. We reckon they are going to be quite familiar:

- Runway Excursions



- Runway Incursions
- Fatigue
- Safety Management Systems
- Regulatory oversight

We're going to ignore the last two, just because we don't know much about them.

## Runway Excursions

The biggest one. The baddest one. **Aircraft going off the end of the runway.** It happens way too often, and the outcome is often severe.

In Canada, between January 2005 and June 2022 there were on average **9.3 runway overrun occurrences per year**, most of these during the landing phase.

Here's the TSB's graph:

Now, they do in all fairness get some 'overrun encouraging' weather in the deep and distant north because it gets so **cold and icy** up there.

But then again this isn't limited to Canada.

You find places all over which have **strong winds** (*tailwinds, ballon inducing gusts...*), **heavy rain** (*slippery runways*), **stuff that reduces visibility on short finals** (*increases chances of getting unstabilised*), **hot and high spots** (*increases the ROD required*), **unusual terrain** (*increases the chances of becoming unstabilised*), **short runways** (*possible performance mishaps*), or just places which are *totally easy-peasy so you think it will definitely all be fine and get complacent...*

Runway excursions are a global problem that don't seem to be going away. We might have mentioned this before.

## So what can we do about it?

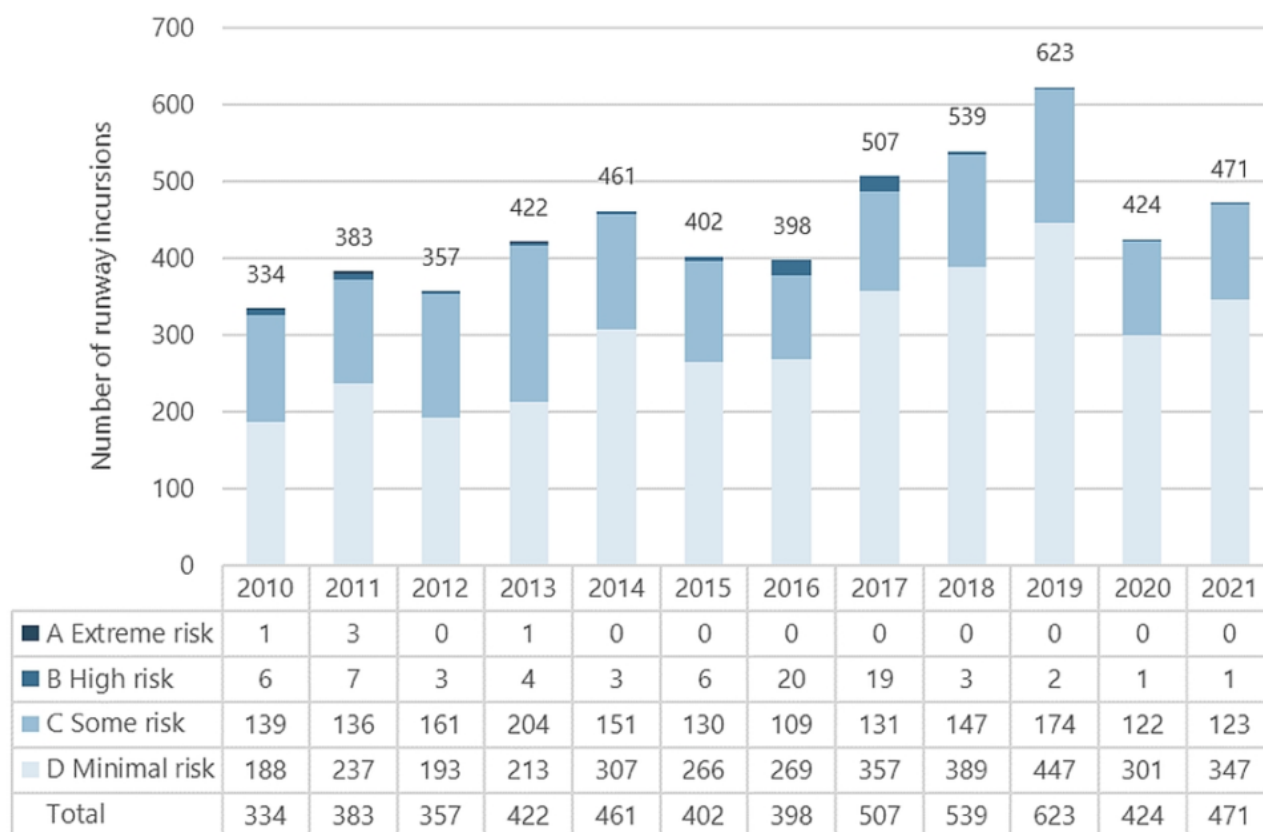
- **Know what GRF is and use it.** If you haven't heard of the (new) Global Reporting Format that came in 2021 then you can read about it [here](#)
- **Use arresting systems.** OK, pilots can't really do much about whether this is available at an airport, but knowing what it is and where it is, is important because some pilots have actively swerved to avoid it. If you're heading off a runway then that sucks but if it has EMAS then USE IT, it might save your life.
- **Fly a stabilised approach.** Or ask the question why you or your crew aren't going around.
- **Do performance calculations... properly.** Not much else to say on that.
- **Be go-around minded.** Air France learned a thing or two about this in 2005 heading into CYYZ/Toronto when the weather deteriorated and they didn't go-around. It led to a runway excursion. Read about it [here](#) if you're not familiar with this one.
- Read this. It's the full TSB rundown on runway overruns.

## Runway Incursions

If the risk of heading off the end isn't enough, then there is also a big risk of heading onto the runway when we shouldn't be.

**The rate has doubled in 12 years.** Thankfully it hasn't resulted in a collision, but still... not ideal.

Here's another graph. because we like their graphs:



There are some big numbers on there.

### What can we do about it?

- **Know your hotspot symbols.** The US have recently changed up their hotspot symbols to help with situational awareness on the taxi.
- **Brief.** Talk about the taxi, especially in poor visibility.
- **Stop!** If you ain't sure, stop taxiing. Rolling about willy-nilly never ends well.
- **Think about de-icing/anti-icing.** There have been changes to HOTS in the FAA winter manual. Taking off with ice on your wings is going to make the takeoff roll hair-raising. Don't risk it, de-ice!
- Read this. The TSB's stuff on incursions, in full.

## Fatigue

Yep. Where to start. This is a big conversation which needs to be had more in the industry. Aside from FTLs and roster patterns (a can we won't open now), we do think there are some things which aren't getting

mentioned enough which can lead to fatigue:

- **Staffing issues**

*"Wait," I hear you say. "What's that got to do with fatigue?"*

Well, staffing issues in airports lead to delays, which lead to longer hours for crew, which can lead to tiredness and fatigue.

- **The Russia Ukraine conflict**

Longer routings mean more time in the air which can lead to, you guessed it, more tiredness and fatigue.

- **Strikes**

Strikes = delays and disruption = ... same old story.

Now, just identifying random things which might be increasing fatigue levels isn't really going to fix it. Having some real, human conversations about it might.

- If you're a pilot, don't just think about now, think about 10 hours later.
- Get some decent controlled rest policies into your operation.
- Consider ways to improve sleep management, especially if you're doing hideous time zone crossing flights.
- Stop using tees like "sleep science" and harping on about circadian rhythm. Start talking about how to recognise fatigue, what that means for your performance, and what to do about it.

## **The Full Monty**

So, that is the (Canadian) Safety Watchlist 2022 and if you want to, you can read the full thing here, (including the bits on fishing).

---

# **Jeppesen Ransomware Attack Update**

OPSGROUP Team  
6 December, 2022



On November 3rd a ransomware attack took down the majority of **Jeppesen planning products**.

We heard that:

- **Jetplan.com** was down
- **Milplanner.com** was down
- **Jetplanner** (standalone) was not working
- **Chart viewer** products was not working (eg. Elink portal, and Icharts)
- **FliteDeck Pro** was not working
- **Foreflight** (now a Boeing company) was working but their Notam feed was not.

Find the post on this [here](#).

### **Update: November 16**

We asked around and it sounds like it took longer to fix than expected, and some bits still aren't working quite as they were:

- **Foreflight notams** remained down for several days
- **Ice crystal areas** are not showing
- There is an ongoing issue with **expired charts and updates being unavailable**
  - Jeppesen has advised that *"The most recent Jeppesen chart downloads are currently effective and in compliance. Any "expired" messages prior to Dec 1 do not indicate that the charts are expired from a regulatory perspective."*
  - However, they do also have this note up. We suggest checking with them direct if unsure whether to update or not:



You can read their response to the attack here, including an explanation of whether or not you need an update.

The NBAA has also posted this:

NBAA is continuing to coordinate with Boeing in response to a recent cyber incident that has disrupted Jeppesen products and services. Here is what company representatives say you should know, and what you should do:

- The company is undertaking an incident response process working with law enforcement, regulatory authorities and cyber security experts.
- Many Jeppesen services have been restored and additional ones are coming back online on a rolling basis.
- At this time there is no reason to believe that this incident poses a threat to aircraft or flight safety.
- The current cycle of updated Jeppesen electronic charts are available for download via JDM.
- If you have questions, or need information about your flight plans, you can stay up to date and receive product alerts from Jeppesen, by registering at [support.jeppesen.com](https://support.jeppesen.com).
- Jeppesen also offers a [Customer Support Portal](#) as a pilot resource.

### **So how big was the impact?**

It was pretty big for some. The most disruptive seemingly for those reliant on the planning software.

### **Let us know if you were impacted (or still are).**

### **What can you do if this happens again?**

We aren't sure actually. It raised more questions for us than we have answers for:

- **Can you use old route plans?**
- **Can you use old fuel plans?**
- **Where else can you get weather, Notam and planning info from?**
- **Are there any back-ups for charts?**
- **What else haven't we thought of?**

### **We've asked the question to members who were impacted by this.**

If you were, and have some feedback on what the impact was and what you did about it, then send us the info at [team@ops.group](mailto:team@ops.group) We will keep it anonymous, but if you have anything that can help others plan for/mitigate disruption if it occurs again in the future, then we want to hear it.

## Has this happened before?

Computer and software glitches have caused numerous issues in the past, but most of these have been **related to passenger booking info.**

A problem with **Aerodata**, which several major US airlines use for weight and balance, caused disruption in 2019.

In 2021, a **cyber attack on a major fuel pipeline** in the USA led to significant disruption at east coast airports due to fuel supply issues.

## The cyber security threat.

You've probably had to sit through a Cyber Security training thing at your organisation. They are basically common sense: don't open random links and don't give out passwords (or information that helps people guess passwords).

**Cyber criminal cunningness** is increasing though. We wrote about some of it here, and it is worth upping the caution levels and making sure you ain't a weak link in security.

---

# Cloaking Devices: The ADS-B Privacy Issue

OPSGROUP Team  
6 December, 2022



ADS-B is fantastic bit of technology that has big safety and efficiency benefits for air traffic. The trouble is, there is also a growing level of *insecurity about security* surrounding it, because it doesn't just allow ATC to know precisely where you are at all times – anyone who wants to can find that info too.

## Are you ADS-Being watched?

We said all this about it before.

If you can't be bothered to read it, then it basically says this:

- **Big benefit** because it gives 'radar like coverage' in remote regions like the North Atlantic.
- **Big problem** because it reduces privacy, and this could lead to security issues.

Whilst airlines don't mind/aren't really bothered about this as much (you can kinda tell where they are heading to and from, and get other info on the airplanes, with relative ease), the business aviation and private aviation world are more concerned.



### The OPSGROUP 'All Call'.

**Here's the frustration:** The FAA runs a program called **LADD** which offers "hiding" of our ID on tracking sites (like FlightRadar24). The theory is good, but we're now at a point here LADD simply highlights your aircraft on tracking sites that don't play by those rules (like ADS-B exchange).

Here's a video. **One click shows everyone airborne that has requested privacy!**

And then there is the issue of *everywhere not the US* because the FAA PIA system only works in US airspace. Cross the invisible boundary and you're visible again. This includes offshore routes to the Caribbean or across the Gulf of Mexico.

Changing the PIA back to the ICAO one is a bit of a mission, and if you aren't using it, then you're not going to be able to log on to Domestic Enroute CPDLC, ARINC and SITA stations won't recognise you. You'll have to switch to a new flight plan provider to get the required call sign. In other words, **it is not practical for a lot of operators.**



We wanted to get an idea of how bothered folks are, and to share some of the info, so we sent out an 'All Call' to our members. The response was big. The concern and frustration is big.

## So what has been happening?

ICAO held their 41st assembly earlier in 2022, and Saudi Arabia submitted a technical paper **asking ICAO to fix the problem**. Read it [here](#).

The key points from the paper:

- ADS-B Tracking of flights creates safety, security and privacy concerns.
- There are some ways to hide your ID, but they don't really work.
- **ICAO, please fix this.**



So, maybe ICAO will take a look at it, but there isn't an easy fix. It's an inherent system problem that needs the system to change (maybe encryption, maybe dynamic hex codes, maybe something else...)

## The NBAA are on it.

A panel to discuss the growing issue was held at NBAA-BACE on Oct 19, 2022. There is a great article on it which you can read [here](#).

## Here's what we picked out of it:

- Pre-ADS-B systems worked on interrogation - so you knew who was asking for the info.
- The issue got bigger with ADS-B Out.
- ADS-B isn't going away because it is useful.

## So they laid out a 4 step plan:

- Aircraft registration should be **held by a trust or LLC** so there is a layer of separation between the principle owner and the name on the certificate of registration (because that's on the public record and anyone can view it).
- Folk should make sure their aircraft is **participating in the LADD program** (it does still do something). Find that [here](#).

- **Use a third-party call sign.** You can get this from a bunch of vendors like Foreflight and FltPlan.com.
- **The most important one:** Take steps to change your 24-bit code associated with your registration. You can do this through the **PIA** system. Basically, the FAA assigns you an alternate 24-bit code to fool the sneaky flight trackers into seeing a different registration number.



### **The FAA are on it.**

They have a whole site dedicated to ADS-B privacy which you can find [here](#).

The info is pretty much everything we've said above, but they have some handy links and things too.

### **Is it enough though?**

#### **We aren't sure it is.**

It is an ongoing thing, which lots of people are looking into. In the meantime, we do have these questions, and your answers to them might help:

- How have you solved this problem?
- Have you worked out some black magic that hides your ID?
- Have you found something that other operators can use?
- Since LADD appears almost pointless, does PIA work for you?
- Have you experienced any security or privacy issues because of public tracking?
- Any suggestions or thoughts to share?



Drop us an email at [news@ops.group](mailto:news@ops.group) if you have any answers/idea/suggestions/tips/questions/queries or other...

---

# Shannon, BizJets and Level Busts

OPSGROUP Team  
6 December, 2022



Level busts at EINN/Shannon Airport are a problem. A big problem. Big enough that the IAA have made a presentation on them, alongside the NBAA. Why the NBAA? Well, because a *disproportionate* number involve North American Business jets.

## We'll start with a little story.

*Once upon a time, not so long ago, a pilot called Hank\* (\*name changed for anonymity) was flying his Business Jet over from the US to Europe, and he decided to stop off at Shannon airport. Shannon is, after all, on the Emerald Coast so it's very pretty but more importantly its just on the other side of the Atlantic, you can do your US customs stuff there, and they have fuel for your airplane and Guinness for you.*

*So off Hank heads, and he's done his homework. He's planned for the whole NAT HLA bit. Alas, though, he has not planned for the actual landing into Shannon bit. Tired, distracted by the thoughts of Guinness and caught out by a much lower transition altitude, Hank forgets to change his altimeter from inches mercury to hectopascals, and when ATC says "Set QNH 988" what does he do?*

*He sets 2988inHg...*

*And so he descends down, aiming to level off at a nice safe altitude. Only his altimeter is over-reading by 720 feet. Hank gets within 2nm and 500ft of some pretty sticky-uppy terrain before ATC spots the errant aircraft and saves the day...*

*So, Hank was added to a long list of North American Business Jet operators who had a nasty level bust in Shannon and was embarrassed.*

Now, the story really begins...

### **I am not a North American BizJet operator so it doesn't apply to me?**

Well, it could and it's useful for anyone to think about really. Level busts are an issue all over, and if you operate into any high traffic density spot (London is a particularly good example) then even **the most minor of busting can result in a traffic conflict.**

Then there is **the risk of CFIT** – controlled flight into terrain. Busting downwards in areas with high terrain could lead to this. In fact, most CFITs occur during the approach and landing phase.

**300 feet is your limit.** Anything beyond that and you've got a bust on your hands.

### **What's with Shannon and North American BizJet operators?**

EINN/Shannon is a **US Customs and Border pre-clearance airport**, and it is in a handy spot on the west coast of Ireland making it perfect for aircraft with slightly less range to hop between the US and Europe. So it gets a higher number of BizJets from the US. In fact, **30% of their flights are North American BizJets** (out of 25,000 or so flights a year).

But despite being only 30% of traffic, they are involved in the majority of level busts. In 2019, 68% of busts in Shannon were, you guessed it, by the NABJ brigade. So far, **in 2022, they've been responsible for a whopping 100%!**

### **So why does Shannon see so many?**

Well, in all fairness, there are some things that make it more complicated if you're used to flying in the US.

Shannon, like most of Europe, uses **hPa instead of inches of mercury**, and this can lead to "**mis-setting" on the QNH**. Like we saw with poor Hank (based on an actual true story) – this is probably the most **common cause of level busts** in Shannon.

Then there is the **transition altitude**. Unlike the US and their nice standard always 18,000ft, **Shannon uses 5000ft** which can lead to a late (or early) change to and from local QNH. Chuck in some weather and particularly non-ISA one and there's your problem.

And of course, folk heading in from a long North Atlantic night flight might be **tired, unfamiliar, or just not planning it very well.**

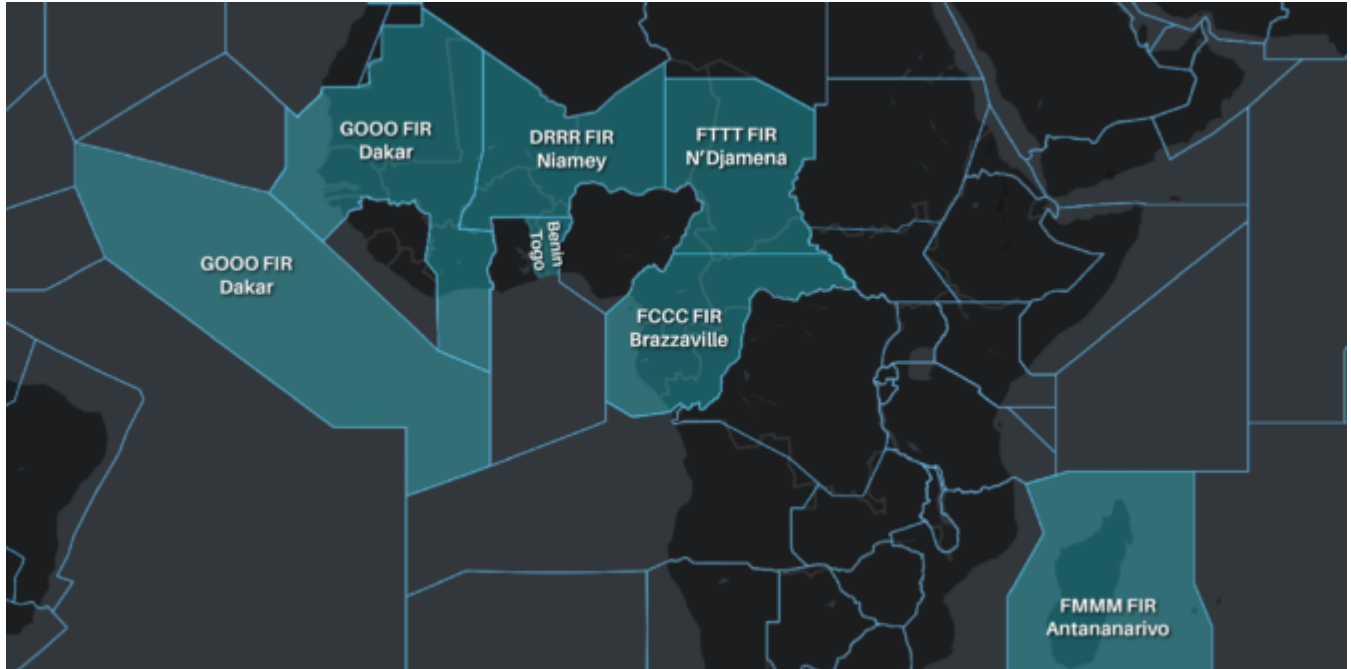
### **So what can pilots do to avoid level busts?**

- Add a **mention of the risk into your briefing** if you're heading to Shannon. Or anywhere where level busts are an issue.
- Remember **"High to low: careful go!"**
- Don't forget to **set QNH in hectopascal** and not inches mercury when operating into Europe.
- **Check the transition altitude**, and plan ahead if it's a low one.
- **Avoid aggressive descents** – you can ask ATC for more track miles if you need.
- Read the NBAA/IAA presentation for more info.

---

# Africa ATC Strike

OPSGROUP Team  
6 December, 2022



## Update 01NOV

The threat of further ATC strikes in West Africa and Madagascar hasn't completely gone away. The air traffic controllers union USYCAA have published an update claiming that ASECNA (the ATC agency) haven't been sticking to the terms of an agreement reached on Oct 17 – they have been forcibly returning controllers to their countries of origin, cutting salaries, and freezing leave. There's another meeting planned for Nov 7, so we should know more then.

You can read the original announcement (in French) [here](#), or this translated copy.

---

## Update 19OCT

USYCAA has **cancelled any further strike action**, following a meeting with ASECNA on Oct 17.

It looks like ASECNA have agreed to some demands (suspend pay cuts, provide indemnity insurance, set up a committee to talk with the union) but some still need to be resolved – mainly to restore all sanctioned controllers to their positions.

You can read the original announcement (in French) [here](#), or this translated copy.

---

## Update 11OCT

USYCAA has **accused ASECNA of intimidating behaviour towards controllers** ahead of a planned

meeting on Oct 17 for negotiations to avert any further strike action. They cite “freezing without explanation of annual leave, verbal invectives, the unwritten suspensions of several air traffic controllers” among their claims.

You can read the original announcement (in French) [here](#), or this translated copy.

---

### **Update 27SEP**

USYCAA has **suspended all strike action** to allow for further negotiation with ASECNA planned for Oct 17.

You can read the original announcement (in French) [here](#), or this translated copy.

ASECNA have also released a statement, which essentially claims there were no safety incidents during the strike, but doesn't really say much more. You can read it from the source [here](#) (in French) or this translated copy.

---

### **Update 24SEP**

As of 1200Z today, **the ASECNA ATC strike action itself has ended**. Per the controllers union, ops normal now. Arrested controllers have been freed, suspended controllers reinstated. However, caution should still be taken by crews as their grievances remains unresolved – both sides are now entering further negotiations for 10 days.

With so many FIR's, ACC's, and Terminal areas involved, the strike action has caused chaos in parts of African airspace. The heavy handed response by ASECNA, which included arresting striking controllers, has created a very sour atmosphere for ATC. This creates potential for lapses in judgement and safety concerns, even with the strike action over.

The major concern yesterday was the replacement of licensed controllers with military and other non-qualified staff, without any Notam or notification. Coordination between different units was unreliable, and many ATC centres were confused as to what the situation was.

**For now, ops normal to some degree again - but all crews should still take great care until things settle down.**

You can read the original announcement (in French) [here](#), or this translated copy.

---

### **Update 23SEP**

**A very dangerous situation is developing today in the African ATC strike.** Crews and operators should be aware that in a number of FIRs/ACCs/Towers, the normal controllers have been replaced earlier today with unqualified and unrated people. In simple terms, the voice on the radio is NOT an Air Traffic Controller.

From local sources we understand that **G000/Dakar Oceanic** and domestic, **DXXX/Lomé**, and **FKKD/Douala** all have unlicensed staff that have taken over the facilities.

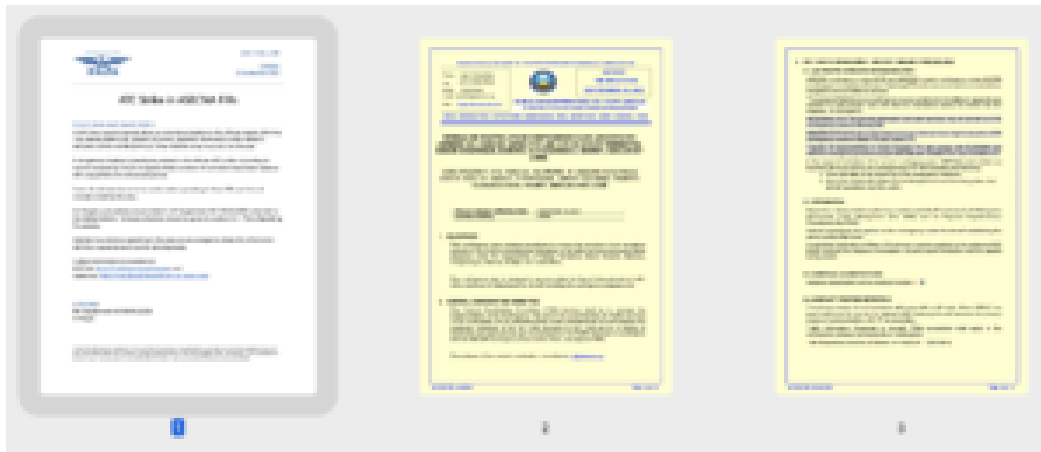
In **FCBB/Brazzaville** and **FMCH/Comoros**, controllers have been arrested. In Niger and Madagascar, controllers have been suspended.

The situation is chaotic in many places and still developing. As of now, **OPSGROUP recommends avoiding ALL ASECNA airspace** unless you have certainty that the ATC service is licensed and safe, and until the situation is more clear.

If you do have to operate through these FIR's, be careful and cautious. ASECNA controls these areas: FMMM/Antananarivo, FCCC/Brazzaville, GOOO/Dakar Oceanic and Terrestrial, DRRR/Niamey, FTTT/N'Djamena, and the airspace of Togo and Benin.

We will update this further as we get more information. We also ask members to share any information they may have – email [team@ops.group](mailto:team@ops.group) or WhatsApp the OPSGROUP Team at +1 747 200 1993

IFALPA have just published a bulletin about the situation.



And an update from USYCAA, the ASECNA Controllers union:

---

### **Update 22SEP**

**Note: These updates relate to the situation when the strike was routine - before reports of unlicensed controllers started to emerge. Please use the info as background only.**

- The ATC strike in West Africa and Madagascar is now underway, and is scheduled to continue until 0800z on Sep 25.
- The strike is taking place across several African countries covered by ASECNA: the FIRs of FMMM/Antananarivo, FCCC/Brazzaville, GOOO/Dakar Oceanic and Terrestrial, DRRR/Niamey and FTTT/N'Djamena; and the airspace of Togo and Benin.
- For flights in these regions, the Contingency Plans now apply. Check here for those.
- The strike is also affecting flights in neighbouring airspace of GCCC/Canarias and DAAA/Algiers – Eurocontrol have published some rules and restrictions on flight planning there until the strike is over (see below).

#### **GGCC/Canarias:**

- Traffic crossing GCCC and exiting to the south into Cabo Verde will be restricted with low rates to FL340 and 380 on UN741 as well as FL300, 340, 360 and 380 on UN873 (except traffic arriving to GV).

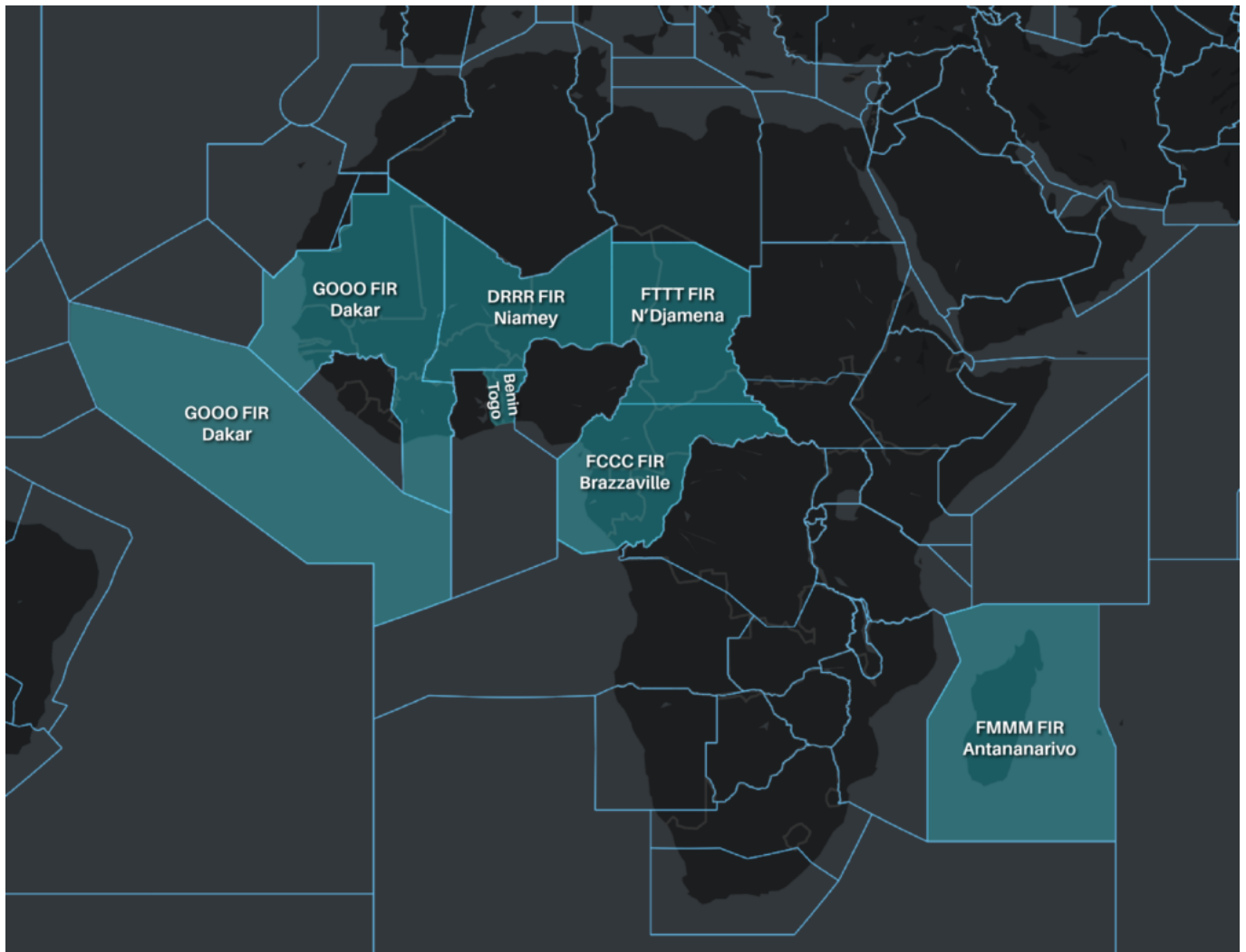


- UN857 will be closed southbound from LZR to GUNET (except traffic arriving to GV).
- Traffic crossing GCCC and arriving to GV must file via EDUMO or IPERA.
- Traffic departing GC via LPPOOCA to GV can not fly via GOBEG, INSAD, IXILU, KUXOV, LAPTU.

#### **DAAA/Algiers:**

- Flight plans exiting DAAA airspace southbound not flying the contingency available routes will be invalidated with EU restrictions (i.e. For flights from Europe transiting through Algeria and into GOOO or DRRR airspace where the strike is happening, you have to make sure you flight plan to join where one of the contingency routes starts, otherwise Eurocontrol will reject your flight plan).

#### **Where the ATC strike is happening:**



ATC will ensure a minimum service is provided for flights involving:

- heads of state and government
- military
- carrying out medical evacuations

- of a purely humanitarian nature
- participating in search and rescue operations.

## The Contingency Plans

ASECNA publish Contingency Plans, with a focus on maintaining overflights for international operations in cases of no, or limited, ATC services. You can find all the Contingency Plans [here](#).

The Contingency plans effectively transfer control to neighbouring ATC controllers. An 'ASECNA wide' strike will therefore **disrupt the level of effectiveness** of these contingency plans.

There does tend to be a prioritisation, or at least measures to help ensure overflights can continue to a certain extent. Parts of African airspace already **operate or have provisions for IFBP**.

## Other issues for ASECNA states

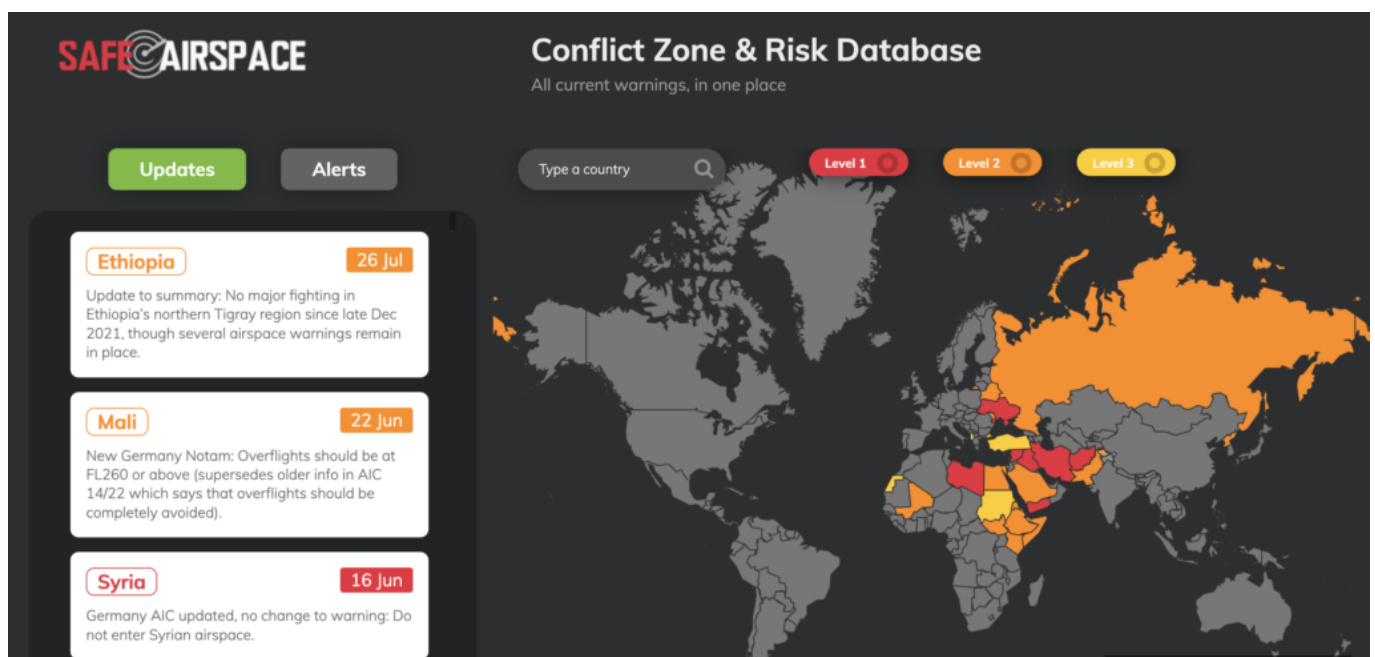
The ASECNA states have faced a fair few disruptions over the past few years.

ECOWAS states closed their land and air borders to **Mali** following a military coup.

**Chad (FTTJ/Ndjamena FIR)** had some issues back in 2021 during a period of escalating conflict and military control. Initially airspace and airports were closed, before contingency procedures came into force.

The African region is volatile, with security concerns on the ground in many countries, and some overflight cautions and warnings. **Libya is a 'No Fly' country**. There are warnings in place for **Sudan, South Sudan, Eritrea, (northern) Ethiopia, Somalia, Kenya (bordering other countries), Western Sahara and Mali**.

The limited diversion options across certain parts of the region due to safety and security concerns present planning issues for flights routing over northern and central Africa in particular. You can find more information on this by visiting Safeairspace.



# Germany don't like it if you're late

OPSGROUP Team

6 December, 2022



There is an old stereotype about Germans blocking poolside seats with their towels so others can't use them. Well, it turns out they do something similar at their airports – sticking strict night flight restrictions and curfews on them so no-one else can use them until morning.

OK, that isn't actually remotely similar, but the bit about the night flight restrictions is, so we thought a little refresher on them might be handy since we are heading into Christmas market season soon and Germany is one of the very best spots for that.

## Why do they have such strict restrictions and curfews?

Noise mainly. They like their people to get a good nights sleep.

## What do the restrictions look like?

It differs from airport to airport depending on the laziness of the locals (*that's a joke*), but in general it looks like **a strict cut-off time followed by no flying at night.**

You can find them in the Aerodrome bit of the AIP.

There is also a very handy tool on the German Slot Coordination website. It has info on night restrictions at IATA level 2/3 airports, (much easier than scrolling through the AIP).

But here is a brief look at some of the main airports and their restrictions (*all times in local*) to give you an idea:

### **EDDH/Hamburg**

The restriction is from **23:00-06:00**

If you are scheduled to land before 23:00 and you've got a really good reason (ie not your fault you're late), then they do have some special regulations allowing flights to take off and and up to midnight.

## **EDDB/Berlin**

Berlin's retraction is **00:00-05:00** for all regular scheduled flights.

They have a reduced number of movements between 23:00 and midnight, and between 05:00 and 06:00 (31 movements are allowed), and they reserve **05:00-05:30 and 23:30-00:00 for delayed flights only**.

## **EDDP/Leipzig**

**23:30-05:30** with a 30 minute window either side for late flights.

Cargo flights have no restriction but no, you can't call passengers cargo.

## **EDDL/Dusseldorf**

**22:00-06:00**, but they allow landings up to 23:00 (up to 23:30 if you're on their "bonus" list)

You can also get in even later/earlier if Dusseldorf is a proper maintenance base for you (basically a home base)

## **EDDF/Frankfurt**

**23:00-05:00**

Frankfurt has a bunch of special regulations based on your noise certs, scheduled movement restrictions, if you're trying to land on the north-west runway. Basically.... 11pm to 5am is going to apply unless you're lucky or special.

## **EDDS/Stuttgart**

**22:00-06:00**, but you've got a 30 minute lateness window for landing.

There are some different exemptions if you're a prop aircraft for example.

## **EDDM/Munich**

**10pm to 6am** as part of a 'modern, restrictive noise quota system'.

That noise thing can win you a spot of their **bonus list** which means you might be able to land within the restricted hours (but probably not between midnight and 5am which is their 'core night' period).

## **What's "noisy"?**

Well, again it differs from airport to airport but generally something around the 75dB[A] mark is what the likes of EDDM/Munich measure.

But then they say this, so we aren't really sure:

## Limiting measures [noise quota]

Night flights are permitted only to the extent that the total noise caused by all night flights does not exceed a specified maximum annual quota.

Moreover, the energy-equivalent continuous noise level "Leq" in the average night in a calendar year at the points of intersection of the flight paths with the boundary of the combined day/night protection zone cannot exceed 50 dB[A].

You're better checking it directly

at the airport than us trying to summarise them all.

### What is the bonus list?

It is something published by the "*Bundesministerium für Verkehr, Bau und Wohnungswesen*" and basically lists a bunch of types which are exempt from the noise regulations. We can't find it, but we do know that the B737-600/700/800 is included on it, if that helps anyone.

### Who is restricted?

Probably you. The restrictions reply to pretty much everyone, save a few exceptions.

### These are the exceptions (that we know of):

- Emergency diversions
- Flights needing to use them as an alternate due weather, tech or safety reasons (that doesn't mean planning them as weather alternates after hours though)
- Disaster relief flight
- Medical flights
- Search and rescue flights
- Police flights
- Mail flights
- Flights that have special permits pre-arranged

### What do I do if I'm late?

Well, try not to be, but if you really can't help it...

Whatever the lateness reason, getting a message to your handler at the airport to help pre-arrange things is probably a good idea.

**These are strict curfews though, there ain't no wiggle room.** The only way you'll be getting in inside of them is if it is a genuine emergency.

- If you are delayed en-route then chances are you will not be cleared the arrival or approach and will be sent on a diversion elsewhere



- If you are on the arrival this doesn't mean you'll definitely be allowed to land
- If you are on the approach then you may not be given landing clearance. Harsh, but I've heard it happening
- If you have been cleared to land then you have been cleared to land and all should be good
- If you end up flying a missed approach then whether they can accept you for a second approach and landing depends on the situation. No ATC is going to prioritise a noise curfew over safety, but, we'll say it again, those curfews are strict! It may need to be an emergency
- If you are delayed on the ground then you're not going anywhere

When considering alternates, remember it isn't just in Germany – there are several spots in Europe with similar restrictions.

---

## Seven things about Hong Kong

OPSGROUP Team  
6 December, 2022



The Hong Kong Sevens is a major rugby tournament, and one which hasn't taken place for three years. So this one is probably going to be quite popular.

Here are seven things for you to know about if you're planning on heading to Hong Kong during this event.

### 1. Tournament Info

The tournament takes place **November 4-6**.

You can find all the info on it here, but from a flying perspective the main thing to know is that teams from 16 countries will be taking part and that means **a lot of extra BizAv airplanes** heading to Hong Kong around these dates.

## 2. Hong Kong Covid Info

Hong Kong have been one of the stricter (and slower) countries in terms of easing up on Covid entry stuff, but at the start of October 2022 they made it a lot easier for crew and passengers to head in.

The main thing was the **dropping of mandatory hotel quarantine** for fully vaccinated crew.

Essentially, crew can choose between entering without isolating if they take multiple PCR & RAT tests during their stay in Hong Kong, or not entering under closed loop arrangements to self-isolate at the Airport Hotel (Skycity Marriott Hotel) until their next departure.

They also have to complete their online health declaration and get a QR code before they board the flight into Hong Kong. You can find that [here](#).

*We received a report from someone who operated there recently, and they said they were not able to test on arrival as crew, but were offered the option to declare themselves a passenger and pay for a \$2000HK test in the terminal. Otherwise, they were not allowed out.*

## 3. Permits and Slots.

You need to talk to **HKCAD to get prior clearance** if you're a private, non-revenue flight. They take about 3 days so hurry up if you haven't already sorted this.

We actually wrote a whole load on the process here, but in general they need what you'd expect them to need:

- What you are flying
- Where it is registered
- Who the operator is
- Which ground handling agent you are using
- Dates and times
- Insurance stuff
- Proof you meet all their AIP specifications.

**Slots are mandatory as well.** Thankfully the airport operates 24/7 but they do have **restrictions between 10pm and 7am** local so don't assume you can avoid the crowds by heading in in the middle of the night.

There is a whole load of info in here which the Airport and Authority posted about slots in 2021. The main bits are probably this:

- Generally you need **14 days** to set up a new account and get slots booked (or your handling agent can do this for you through their account)
- It isn't just the runway slot you need. You need a **parking 'slot' and ground handling arranged**
- The online slot system is [here](#)
- Talk to the folk at Hong Kong Business Aviation Centre - [hkbac@hkbac.com](mailto:hkbac@hkbac.com) - for help with your slots.

## 4. Parking

Parking at Hong Kong isn't too big an issue because it's a big airport. Here is an unhelpful picture out of their AIP:

If you do find you can't get a space there though, then there are some alternate options which you could use to swing by Hong Kong from:

- **VMMC/Macau** Right next door, 11,024'/3360m runway, smaller and more limited parking options though
- **RCTP/Taipei** A little bit further away, a 12,467'/3800m and a 12,008'/3660m runway, and a big airport with a load of parking
- **VVNB/Hanoi** About the same distance as Taiwan, a 10,499'/3200m and a 12,467'/3800m runway to pick from and plenty of parking.

What we don't recommend is China Mainland because...

## 5. China Mainland stuff

They get a bit funny about it. Not half as funny as they do with Taiwan-China Mainland operations, but it can still be a real hassle with **visas for your crew** and maintenance for your aircraft, and all that.

And a little thing called **Covid** which will probably still have you in boiler suits, escorted to and from locked hotel rooms.

## 6. Operational Stuff at Hong Kong

Here is the online AIS which is a good spot to start if you've not been to Hong Kong before.

It is a well managed airport, but there are a few things to know about.

- **They just got a new runway** Well, earlier in 2022, but they did and you might not have used it yet so here is a post about it.
- **Issues with the ILS** An ongoing thing which has earned its own special AIC. It basically says watch out for false capture because terrain means it doesn't totally conform to standard ICAO ILS specs
- **Terrain is annoying there** It gets in the way of things like the go-around and one engine out stuff. You might want to check the gradients because they are quite high
- **You need ADS-B** or you'll be stuck down at rubbish levels

If you're an **Opsgroup member**, then give VHHH a search on Airport Spy because there are a lot of **reviews, documents and other useful things** there on Hong Kong, including an Airport Lowdown.

## 7. What else...

I said 7 because of the Rugby Sevens thing, but I can't think of another one.

Oh, ok, **weather** - 'tis the season of typhoons so keep a look out for them. This is a good page to do it on.

Don't just worry about the weather at Hong Kong, check it for your alternates as well because the whole

region can get some pretty nasty weather when these storms start brewing.

---

# Winter is Coming: Updated Holdover Time Guidelines

OPSGROUP Team  
6 December, 2022



Sorry, the GoT reference still hasn't grown old. Anyway, every year the FAA & Transport Canada releases a new set of Holdover Time (HOT) guidelines for the winter season. The one for winter 2022 is available [here](#). So if you want to update your de-icing procedures, manuals, and training in line with the guidance from the feds, here's what you need to know...

## What's changed?

**They've added some fluids and removed some fluids** which are really good for *middle speed aircraft*. So basically, check what fluid is being used on your aircraft, confirm it is a good one for your aircraft Vr, and then make sure you use the right table.

Standard Winter Ops 101.

**Type II generic holdover times have increased** (because they removed a fluid called *Beijing Something or other* that was holding them back). How much by? A few minutes here, a few minutes there, mainly in the -3 °C and above (27 °F and above) section.

They also did a load of tests which means you now get **HOTs for very cold snow** (cold enough to turn your legs to ice blocks if you accidentally step into it because it's colder than -14°C cold). This applies to a bunch of new Type II and IV fluids and is great because that's the sort of stuff you're going to want to escape from for sure.

## Double check those tables!

If you're heading into the **generic fluid tables** then that's fine **but** you actually need to **make sure the Type II or Type IV fluid is listed in table 55 or 57.**

It might seem a little contrary to the point of a 'generic table' but there we go. If it isn't in the table, and if it doesn't have its own specific table, then chances are you're in some dodgy airport where they're spraying you with homemade, bootlegged moonshine and it might not be very safe.

## Freezing Fog.

There are changes to the HOTs for **FZFG if it's mixed with ice crystals or mist.** Same for snow mixed with ice crystals.

**My opinion:** *You need some pretty trustworthy Met officer telling you exactly what is out there to start getting this specific. If in doubt, always go with the most limiting and then take a good look before taking off!*

## A note on a note.

**You can takeoff up to 90 minutes after the start of fluid application** with a few conditions. This isn't a new change, this has always been the case, but still worth mentioning.

- Takeoff is allowed up to 90 minutes after start of fluid application if the precipitation stops at or before the allowance time expires and does not restart. The OAT must not decrease during the 90 minutes to use this guidance in conditions of light ice pellets mixed with either: light freezing drizzle, moderate freezing drizzle, light freezing rain, or light rain.

## Small Hail.

This hasn't changed but it is a confusing one so they've added a new note on it. It says this (give or take one or two inaccuracies):

- **GR** in the Metar means small hail, which means hail less than 1/4 inch... **if you're in the US.**
- **Outside the US**, small hail is anything less than 5mm, and is reported as **GS**. If it says GR that means big hail (5mm or more). Don't get them mixed up.
- If it doesn't specify intensity then use the moderate ice pellets or small hail times.
- If you aren't sure and don't have a tape measure then send your FO out and check the bruise sizes when they return.

## 'Snowfall intensities as a function of prevailing visibility'.

You know the one - they use it in your yearly Winter Ops sim to try and catch you out by overcomplicating which table you want to use and hoping you forget or get confused and then they can enjoy lecturing you on it during the debriefing...

Anyway, it has been *changed, reformatted and updated.* Compare them at your leisure. We like the new one much better.

## Must, shall, required, and should...

The document has **these new disclaimer sheets** at the start of each section:



## ACTIVE FROST HOLDOVER TIME (HOT) GUIDELINES WINTER 2022-2023

The HOT Guidelines are provided for information and guidance purposes. The HOT Guidelines on their own do not change, create, amend or permit deviations from regulatory requirements.

The HOT Guidelines may use mandatory terms such as “must”, “shall” and “is/are required” so as to convey the intent of meeting regulatory requirements and SAE Standards, where applicable. The term “should” is to be understood, unless an alternative method of achieving safety is implemented that would meet or exceed the intent of the recommendation.

### CAUTIONS

- The responsibility for the application of these data remains with the user.
- Fluids used during ground de/anti-icing do not provide in-flight icing protection.
- This table is for departure planning only and should be used in conjunction with pretakeoff check procedures

In case you aren't familiar with these nuances of aviation lingo, here you go:

- **Must:** Really no grey area. You gotta do it no question, no bending, no ignoring. Just do it.
- **Shall:** A little bit more ambiguous – not quite the same level of necessity but a strong assertion of importance!
- **Required:** More a *regulatory, meeting standards* sort of a thing. If you want to two step de-ice then some de-icing fluid is required. You can try without but won't get very far...
- **Should:** A wonderful word but don't get carried away – it's more of a “really should unless you really can't” rather than an “only if you fancy it” sort of a meaning. So a shall \*unless you have a good reason not to.

### A final thought.

**Don't forget GRF changed in November 2021.** You might not have operated in conditions needing a runway surface condition assessment since then so it's worth a quick read of what it now looks like.

Also, thanks to **Avioscribe** for this handy video on the main highlights and changes to the Holdover Time Guidelines for Winter 2022-2023. Trying to compare the two documents was a mission we weren't prepared to undertake and you've done a spot on job.

---

## Ops Planning for the World Cup 2022

OPSGROUP Team  
6 December, 2022



Here's some info on Qatar to help prepare if you're planning on heading there during the World Cup 2022.

**UPDATE:** *Bombardier are trying to negotiate support for Challengers and Globals / QAS just put their prices up*

### **The dates to know about.**

The World Cup takes place from **November 20 to December 18**. So anytime during those dates (and probably a few days either end) it is going to be just a little bit busier.

Get parking requests, handling requests, and permit requests in early!

Before we get into it, I'm going to share [THIS LINK](#) because it takes you through to the full slot coordination page which has a lot of info on to you might need. Not just on slots, but on regulations, handling stuff, and all that jazz.

There is also a new **AIP SUP 32/2022** effective Nov 3 which contains , and if you still ain't sure then daily CDM conferences take place at 0800 UTC, with an ATFM Daily Plan published at 1000 UTC.

### **The airports to know about.**

You have two choices if you want to actually fly to the World Cup – **OTHH/Doha International** (actually called Hamad) or **OTBD/Doha International** (actually called Doha).

*You should probably also be aware of OTBH/Al Udeid Airbase because it is fairly close to the Double Dohas, has two big runways and has been known to confuse some people.*

**OTHH/Hamad** is the **main international airport** in Qatar.

You will find:

- 2 giant runways (4250m and 4850m)
- All the runways are CAT II/III
- RFF 10

If you want to head in here, then bear in mind this is the main international airport for the country and it is already busy with scheduled airline traffic.

You can find info on the general fees for operating here in the AIM.

**The official FBO is Qatar Executive** reachable at [request@qatarexec.com.qa](mailto:request@qatarexec.com.qa) or +974 4022 1700

All their rates and fees are available here. There may be different charges for operating during the World Cup though so get in touch with them soon!

We discovered this updated fee list from QAS. It has jumped up just a little during the World Cup period so don't rely on old fees...

**OTBD/Doha** is the older international airport and was pretty much decommissioned for a while there. It looks like it will be used for charter and private stuff, and some airline overflow traffic.

You have:

- One runway - RWY 15/33
- 4570m / 14,993'
- CAT I ILS 15 / CAT II/III ILS 33
- RFF 9

### **A quick bit on Slots, because they are quite a big deal.**

Slots are already filling up fast. And they are mandatory. And there is an official process for requesting them which you can read about [here](#).

If you haven't already organised it then **get on this fast**. I can't stress that enough. Do it now!

### **There are a few things to know:**

- You will need to pay a **5000USD deposit**
- The deposit will be deducted from airport charges
- There will be hefty penalties applied for:
  - No shows or Go shows
  - Misuse (seriously late aircraft)
  - Using a different aircraft type to the one mentioned in the slot request
  - Cancelling on the day

### **There are exceptions to the penalties. Basically for anything outside the operator's control:**

- If your airplane gets damaged (presumably not through your own fault)
- If the weather is particularly adverse
- Delays due to issues with Air Traffic management

- Industrial action
- Security related stuff (of the mandatory sort)

### **What sort of penalties are you looking at?**

- If you cancel on the day or don't show up then on top of losing the slot booking deposit, you can expect the following penalties:
  - 100USD per seat (per flight) if you're a passenger charter flight
  - 20,000USD if you're a GA/BA flight
  - 30,000USD if you're a charter cargo flight
- If you just 'misuse' your slot then they'll fine you the following:
  - 5,000 USD for arrivals more than 20 minutes outside the approved slot time, for flights 5 hours or less
  - 5,000USD for arrivals outside 35 minutes of the slot, for flights longer than 5 hours
- Finally, if you take a different type in then expect a 5,000USD fine for each higher ICAO category than the one approved.

We got all this info from here – the official local slot rule spot.

**If you sort it all out, get your slot, and plan to use it properly, then on the day, you'll need to do this:**

### **If you don't want to stick around in Qatar...**

There are some handy and fairly close other places which you might want to consider using instead (if you can't get parking in Doha). These are probably what you'll file as your alternates for Doha anyway, given the size and airport numbers in Qatar (2).

Next to Qatar you have Bahrain and **OBBI/Bahrain International**. A very good alternate, *although we are currently checking whether flights direct between the two countries are possible.*

Just past Bahrain you have Saudi Arabia, and **OEDF/Dammam International**. This is a good alternate, although not as good as OBBI. A little bit further into Saudi and you have OERK/Riyadh.

On the other side of Qatar you have some water and then the UAE with **OMAA/Abu Dhabi, OMDB/Dubai, OMDW/Another Dubai** are all good alternates. We also heard that **OMSJ/Sharjah** FBO Gama Aviation is offering 7 days free parking there.

Head north and you'll find **OKBK/Kuwait**. Also a good alternate. I forgot to put it on the map, it is up there just outside the edge of the picture though.

### **Some things to know about the country.**

**You need permits for both landings and overflights.** To get all your flight clearances stuff, try these folk at the Civil Aviation Authority Qatar: [doha.comm@caa.gov.qa](mailto:doha.comm@caa.gov.qa) / [khalid.alnsiri@caa.gov.qa](mailto:khalid.alnsiri@caa.gov.qa) / [rakesh.attavar@caa.gov.qa](mailto:rakesh.attavar@caa.gov.qa) / [airlines.affairs@caa.gov.qa](mailto:airlines.affairs@caa.gov.qa) or AFTN: OTBDYAYX / AFTN: OTBDYFYX

**Their AIP is available online**, for free, if you need it. You can find it here.

They have a **new airspace**. Yes indeed. Read about that here.

You really, really **can't take alcohol into Qatar**. Or a lot of medication (anything containing Codeine will get you into trouble. Anything else, just carry a prescription for it).

Because Qatar is fairly small and **hotel rooms fairly limited**, most are requiring tickets to the game so you might have trouble finding space for your crew if they're overnighing.

It will be **mandatory to have a maintenance agreement in place with your ground handling agent** if you are operating into Qatar, or else you'll have to carry your own engineer/maintenance person with you onboard – even for a drop and go.

- *Bombardier are negotiating with Qatar Executive for them to provide support for the Challenger and Global series of aircraft. It's not been finalised yet, but hopefully will all be in place before things 'kick off' (if you'll pardon the pun).*

### **Some Covid stuff.**

As of at the moment, **Air Crew can enter Qatar for 96 hours**. To do this, you need a vaccination certificate and a PCR taken in Qatar within 72 hours of your arrival. **Unvaccinated crew will not be allowed in.**

### **A quick definition.**

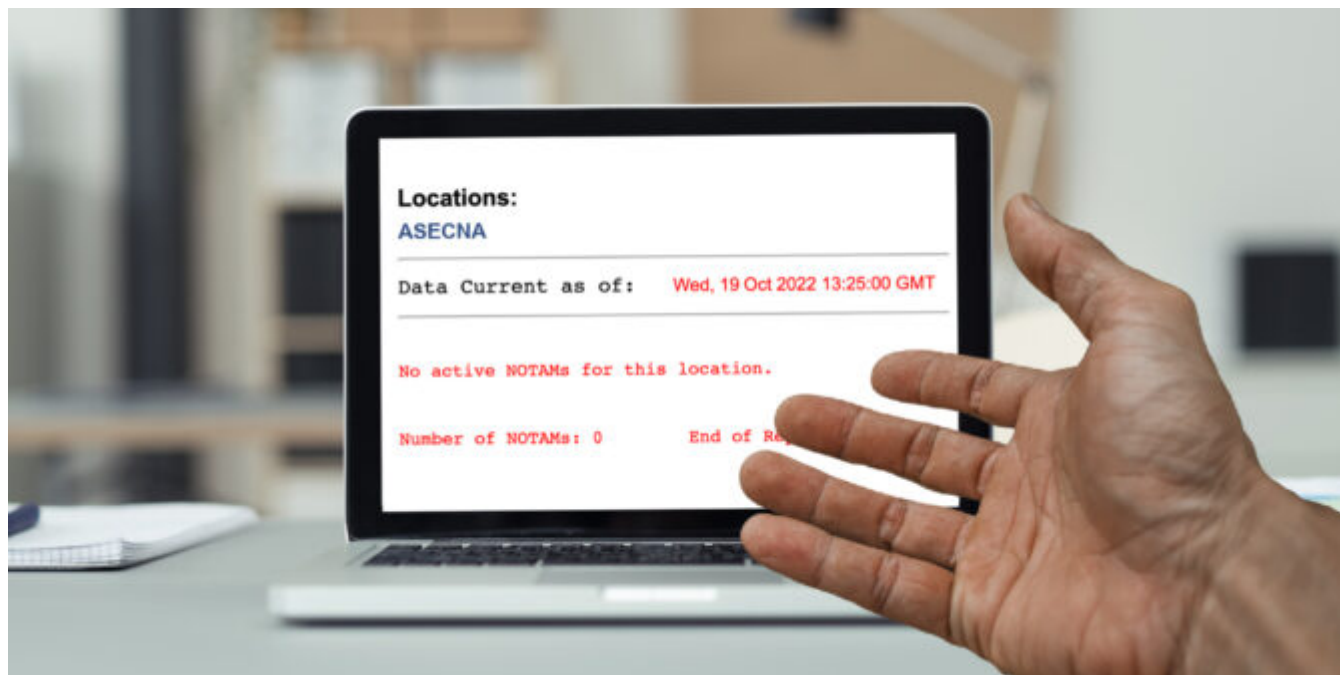
Football = Soccer (if you're American).

---

## **Where have Africa's Notams gone?**

OPSGROUP Team  
6 December, 2022





ASECNA have a secret treasure trove of AIP SUPs on all kinds of airport closures and other fairly essential info that **doesn't seem to be getting published by Notam.**

Now, it might be because these are relatively *long* things and as you may recall, Notams shouldn't really be **valid for longer than 3 months** because then it is less temporary and more, well, lengthy.

But there are still some in there that we really would expect to see as notams. Such as:

- **FOON/Franceville**, Gabon having potholes in its runway and so not allowing operations on runway 33 from Oct 4 to Dec 31.
- **GOSS/Saint Louis**, Senegal is closed to all traffic for works from Oct 5 to Dec 27.
- **DXXX/Lome**, Togo is having works until Dec 31 so folk should watch out for workers and their machinery during taxi.
- **GOGG/Ziguinchor**, Senegal is closed from Sep 19 to Feb 28 2023 because of security works.

And that's just the obvious ones we spotted - **there are plenty more!** Here's the list of 'latest news' list they publish:

## Actualité / Latest news

- [SUP NR 85/A/22FC](#) - October 13, 2022 - BRAZZAVILLE NOF - Checklist of valid AIP supplements "A"
- [AIC NR 26/A/22FC](#) - October 10, 2022 - ASECNA - Increase of en-route and lighting fees and harmonization of all aeronautical fees rate for ASECNA's community activities.
- [SUP/AIRAC NR 84/A/22FC](#) - October 10, 2022 - FKYS - YAOUNDE NSIMALEN (CAMEROON) - Update of the procedural sections
- [AIC NR 33/A/22GO](#) - October 10, 2022 - ASECNA - Increase of en-route and lighting fees and harmonization of all aeronautical fees rate for ASECNA's community activities.
- [VALID NOTAM - GO](#) - October 15, 2022 - DAKAR NOF - Checklist of valid NOTAM
- [SUP NR 83/A/22FC](#) - October 04, 2022 - FCOD - OLLOMBO Denis SASSOU NGUESSO (CONGO) - Update of aeronautical data
- [SUP NR 82/A/22FC](#) - October 04, 2022 - FOON - FRANCEVILLE M'VENGUE (GABON) - Runway condition
- [VALID NOTAM - FC](#) - October 04, 2022 - BRAZZAVILLE NOF - Checklist of valid NOTAM
- [AMDT 10/2022](#) - October 05, 2022 - AMDT 10/22 - UPDATING BULLETIN
- [SUP NR 110/A/22GO](#) - October 05, 2022 - GOSS - SAINT LOUIS (SENEGAL) - Airport closure
- [VALID NOTAM - FM](#) - October 01, 2022 - ANTANANARIVO NOF - Checklist of valid NOTAM
- [AIC NR 15/A/22FM](#) - September 21, 2022 - FMST - TOLIALY (MADAGASCAR) - Exceptional authorization
- [SUP NR 44/A/22FM](#) - September 20, 2022 - FMML - MADAGASCAR - ATM contingency plan applicable to Antananarivo FIR
- [SUP NR 109/A/22GO](#) - September 20, 2022 - DAKAR TERRESTRE, DAKAR OCEANIQUE, BAMAKO, OUAGADOUGOU, NIAMEY, ABIDJAN AND LOME - ESPACE ASECNA - ATS routes network in ASECNA airspace under ACC
- [SUP NR 108/A/22GO](#) - September 20, 2022 - DXXX - LOME (TOGO) - Approach and runway lighting rehabilitation work
- [SUP NR 107/A/22GO](#) - September 20, 2022 - GOGG - ZIGUINCHOR (SENEGAL) - Closing of airport
- [VALID NOTAM - GO](#) - September 07, 2022 - DAKAR NOF - Checklist of valid NOTAM
- [SUP/AIRAC NR 106/A/22GO](#) - September 07, 2022 - DFFD - OUAGADOUGOU (BURKINA FASO) - Mise en service des procédures de vol liée aux opérations de montées et de descentes continues
- [AMDT 09/2022](#) - September 05, 2022 - AMDT 09/22 - NIL UPDATING BULLETIN
- [SUP NR 105/A/22GO](#) - September 03, 2022 - DAKAR TERRESTRE, DAKAR OCEANIQUE, BAMAKO, OUAGADOUGOU, NIAMEY, ABIDJAN AND LOME - ESPACE ASECNA - ATS routes network in ASECNA airspace under ACC
- [VALID NOTAM - FC](#) - Septembre 01, 2022 - BRAZZAVILLE NOF - Checklist of valid NOTAM
- [VALID NOTAM - FM](#) - September 01, 2022 - ANTANANARIVO NOF - Checklist of valid NOTAM
- [AIC NR 32/A/22GO](#) - August 29, 2022 - DR - NIGER - Revised Health Guidelines for PCR Testing and Vaccination in the Context of COVID-19
- [SUP NR 104/A/22GO](#) - August 29, 2022 - DAKAR NOF - Checklist of valid AIP supplements "A"
- [SUP NR 103/A/22GO](#) - August 25, 2022 - DBBP - PARAKOU (BENIN) - Closure of aerodrome
- [SUP NR 102/A/22GO](#) - August 19, 2022 - GA - MALI - Creation of a temporary prohibited area (TPA) and creation inside of two temporary regulated areas (TRA)
- [SUP NR 13/B/22FM](#) - August 18, 2022 - ANTANANARIVO NOF - Checklist of valid AIP supplements "B"
- [SUP NR 43/A/22FM](#) - August 18, 2022 - ANTANANARIVO NOF - Checklist of valid AIP supplements "A"
- [SUP NR 15/B/22FC](#) - August 18, 2022 - BRAZZAVILLE NOF - Checklist of valid AIP supplements "B"
- [SUP NR 81/A/22FC](#) - August 18, 2022 - BRAZZAVILLE NOF - Checklist of valid AIP supplements "A"
- [SUP NR 101/A/22GO](#) - August 17, 2022 - GOGS - CAP SKIRRING (SENEGAL) - Update of aeronautical data
- [SUP NR 100/A/22GO](#) - August 16, 2022 - GOGS - CAP SKIRRING (SENEGAL) - Update of aeronautical data
- [SUP NR 99/A/22GO](#) - August 16, 2022 - GOGS - CAP SKIRRING (SENEGAL) - Update of aeronautical data
- [SUP NR 98/A/22GO](#) - August 15, 2022 - GAGO - GAO/KOROGOISSOU (MALI) - Activation of TMA and CTR
- [VALID NOTAM - GO](#) - August 13, 2022 - DAKAR NOF - Checklist of valid NOTAM
- [SUP NR 97/A/22GO](#) - August 13, 2022 - DXGN - NIAMTOUGOU (TOGO) - Glide path unserviceable
- [SUP NR 96/A/22GO](#) - August 13, 2022 - DXGN - NIAMTOUGOU (TOGO) - Localizer resumed normal operation service
- [SUP/AIRAC NR 80/A/22FC](#) - Août 11, 2022 - FKFD - DOUALA (CAMEROON) - TAREK - 5LNC name change
- [SUP NR 14/B/22FC](#) - August 11, 2022 - FGMY - MONGOMEYEN (EQUATORIAL GUINEA) - Unavailability of Navigation Aids
- [SUP/AIRAC NR 42/A/22FM](#) - August 11, 2022 - FMMT - TOAMASINA/AMBALAMANASY (MADAGASCAR) - Change of the NDB «MV» frequency

So the point really is, check this page if you are planning *Togo* into or over ASECNA countries because things that could impact your operation do not seem to be Notam-ed, and they could have a significant impact, particularly with regards **alternate and en-route aerodromes**.

And if you've *Benin* an ASECNA country or airspace and have experienced issues (with un-Notamed stuff or anything else) then **please drop us an email with the details** on [news@ops.group](mailto:news@ops.group) so we can share the info around to other folk.

*(Sorry for the puns. It's been nice Chad-ing).*

## ASECNA are raising their fees.

Specifically, their en-route fees another airport lighting fees.

AIC 33/A/22GO was issued Oct 10 and is effective from January 1 2023. 26/A/22FC came out at the same time (and says the same thing).

- **En-route fees will increase by 5%**
- **Runway lighting fees will increase by 3%**

So, if you are an international flight this means the following:

- If you weight **less than 4 tonnes** you won't get charged.
- If you weigh **between 4 and 14 tonnes** you will be charged **220.76 Euro**

- If you weigh **more than 14 tonnes** then you will be charged **110.38 Euro**

But then there is the co-efficient bit, and then there are these two tables as well...

<b>POIDS (en Tonnes) Weight (in tons)</b>	<b>TARIF NATIONAL (en €) National Rate (in €)</b>	<b>TARIF INTERNATIONAL (en €) International Rate (in €)</b>
<b>1 to 14 T</b>	0,29	1,53
<b>15 to 25 T</b>	1,14	1,53
<b>26 to 75 T</b>	2,30	3,07
<b>76 to 150 T</b>	2,91	4,30
<b>More than 150 T</b>	2,75	4,03

<b>POIDS (en Tonnes) Weight (in tons)</b>	<b>TARIF (en €) Rate (in €)</b>
<b>Less than or equal to 75 T</b>	<b>131,50</b>
<b>More than 75 T</b>	<b>166,57</b>

Again, here is the ASECNA AIC/AIP page so you can find any others to check them as well.

### Wait... what is ASECNA?

ASECNA is the Agency for Security of Air Navigation in Africa and Madagascar. They look after Benin, Burkina Faso, Cote d'Ivoire, Guinea Bissau, Mali, Mauritanie, Niger, Senegal, Togo, and Madagascar.

Which in terms of FIRs, means the **FMMM/Antananarivo, FCCC/Brazzaville, DRRR/Niamey, FTTT/N'Djamena and GOOO/Dakar oceanic and terrestrial.**

That all looks a little like this:

### What else has been happening here recently?

Well, if you missed it, then a big ATC strike in October 2022 caused some trouble because they started using **non-trained personnel to fill the ATC seats** - a very risky practice which we obviously don't like.

It hasn't been all bad news with them though. In June 2022 they also started implementing Free Route Airspace, and they have a pretty **decent ADS-B service** set up across the region.

Then there has been the fuel shortage woes. This isn't necessarily within ASECNA airspace, but impacts the entire region so worth a mention.

### What about airspace safety?

**Chad** (the FTTT/N'Djamena FIR and FTTJ/N'Djamena international) saw land and air borders closures in 2021 following the death of their President and effectively a military rule brought in.

**Mali** had a military coup and reneged on agreements to hold elections, leading to sanctions from the rest of ECOWAS (their neighbours) which resulted in closures of land and air borders.

**Flown in to any of these countries recently? Send us your report!**

Please send us your Airport Spy reports so we can share the gotchas, the things to know, contacts to contact and anything else useful.

**What's Airport Spy?** Well, you write a quick little postcard with "what happened" when you went to some airport somewhere. Then you, and others (that's the magic), can refer to your notes for future flights to the same place. Try it here if you haven't already.



Got some intel?

## Are you an Airport Spy?

You go to unusual places and see curious things. Your turboprop friends envy you. Now, it's time to give back.

For your next trip, pack a notebook, and file your Spy Report below. You'll get a weekly ops briefing in return.

[File your report](#) >

# Japan Reopens: Crew & Passenger Entry Rules Explained

OPSGROUP Team  
6 December, 2022



Japan will reopen for individual tourist travel from October 11. Prior to this, travellers needed to be part of tourist groups, or heading there for business or study purposes. But from Oct 11 anyone can enter!



## Passenger rules.

- Visa free entry has resumed for the 68 countries it previously applied to. Passengers from everywhere else will need a visa.
- Passengers will need either proof of vaccination (3 doses) or proof of negative test taken within 72 hours before departure.
- There's no testing on arrival and no quarantine, regardless of vaccination status. And there's no more checking of which blue/yellow/red countries you're coming from – that whole matrix has been scrapped.
- Passengers are still encouraged to use the MySOS app and register required docs, for fast track entry.

The full passenger rules can be found [here](#).

## Crew rules.

- Just like for pax, you need either proof of vaccination or proof of negative test taken within 72 hours before departure. If you can't provide either of these, they'll let you in but you'll have to quarantine in the hotel.
- If you have a passport from one of the 68 visa exempt countries, that's all you need. If not, you'll get issued a crew shore pass on arrival which allows you to stay in Japan for up to 7 days without holding a visa.
- Crew don't need to use the MySOS app. Instead, they should submit a "plan of stay" form on arrival.

The basic crew rules can be found [here](#), which we fleshed out with help from local handling agent Aeroworks. Contact them at [fltops@aeroworks.jp](mailto:fltops@aeroworks.jp) for further info.

## Are you heading to Japan?

Let us know how it goes! Send us your Airport Spy reports so we can share the gotchas, the things to know, contacts to contact and anything else useful.

**What's Airport Spy?** Well, you write a quick little postcard with "what happened" when you went to some airport somewhere. Then you, and others (that's the magic), can refer to your notes for future flights to the same place. Try it [here](#) if you haven't already.



Got some intel?

## Are you an Airport Spy?

You go to unusual places and see curious things. Your turboprop friends envy you. Now, it's time to give back.

For your next trip, pack a notebook, and file your Spy Report below. You'll get a weekly ops briefing in return.

[File your report](#) >



If you have any further knowledge or recent experience to share, please let us know!

---

# What we know about the US CPDLC trial

OPSGROUP Team  
6 December, 2022



There is a CPDLC trial running in the US, but it isn't open for everyone...

## General CPDLC stuff

CPDLC is basically a sort of 'text messaging' system that lets ATC contact you, and you contact them.

**Combine it with ADS-C and you've got Datalink**, which is mandated in a bunch of places like the NAT HLA, Europe and the UK above FL290 etc.

Some other useful info:

- Europe have a logon list. If you want an answer then register.
- **Europe use ATN**, everywhere else uses FANS. If you only have FANS then you can still call yourself 'CPDLC in Europe' if your original **certificate of registration is pre 2018**.
- Just to be clear, the **US requires FANS 1/A**.
- If your airplane is younger than 2014 then the system also needs a **message recording function**.
- **PBCS tracks** need a performance standard of RCP240 (ADS-C is RSP180).
- **A056** is the LOA to get (or maybe A003).

We actually made A little Opsicle on CPDLC just the other day. It is quite a silly one, but here it is if you

want a look:

## CPDLC in the US

The US has CPDLC in a bunch of places. It isn't really mandatory yet though. At least not the **domestic en-route CPDLC**. This is the bit they are running a trial for, and they're doing it with **L3Harris**.

**The trial is actually, specifically, for the business and general aviation community.** The likes of Boeing and Airbus (or rather their avionics configurations) have already been approved.

So, here is the FAA info on it. Or rather, this is the notice talking about **who can participate in the trial**. They released this because a bunch of folk were participating, but their avionics version or configuration wasn't good enough and it was messing up the results.

### So how do you know if you've got what it takes?

All the systems are listed on the L3Harris site. If your aircraft type is missing from the Trial List (shown below), this means that operational acceptability hasn't been determined yet for that specific aircraft type. If that's you, you can fill in the form and email it to them at [DCIT@L3Harris.com](mailto:DCIT@L3Harris.com) and they will check to see whether you have the spec to participate in the trial.

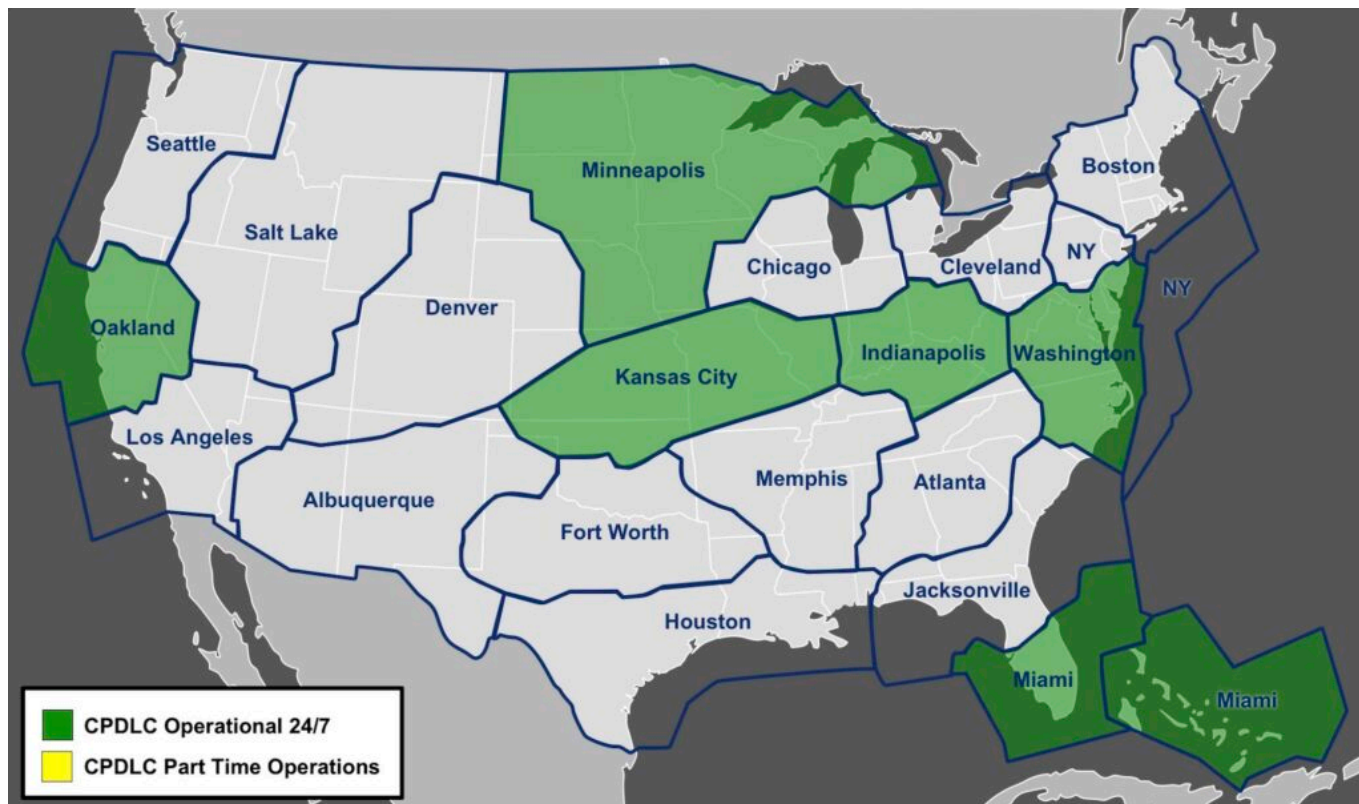
Aircraft	CMU/Equivalent for MF VDL Mode 2	VDR for MF VDL Mode 2	Minimum FMS version	Minimum FMS version (DCL Only)	FPL Filing (En Route)	
G280	RC RIU-4010/4100: DLCA-6000	RC VHF-4000E: 822-1872-390	RC ProLine Fusion 6200 V3.6 (or later)		RC PLF V3.6: 1FANSE	RC PLF V3.6.1: 1FANSE
G500 (GA5C)	HW CMF 3.1	HW EPIC VDR: 7026201-813 (Mod X)	HW NG FMS 3.1		1FANSE	
G600 (GA6C)			HW NG FMS 1 (Similar to Block 3)		1FANSE	
G700 (GA7C)						
G800 (GA8C)						
F900 (A,B,C,EX)	HW Mark II+ Core SW 998-6063-522 (or later)	HW EPIC VDR: 7026201-815 (Mod U)	RC Primus 2000 HW SP2-8000		1FANSE	
Falcon 8X	HW CMF 3.0	HW EPIC VDR: 7026201-814 (Mod 5)	HW EASY III		1FANSE	
Pilatus PC-24	HW CMF 3.2 (or later)	HW KTR-2280A	HW NG FMS 3.2 (or later)		1FANSE	
Global: 5000 (GVFD), 5500, 6000, 6500, 7500	RC RIU-4010/4110: 822-1863-175/178/179/671/672	VHF-4000: CPN 822-1468-210 with SB-8 CPN 822-1468-290 CPN 822-1468-302 with SB-11 CPN 822-1468-303	RC ProLine Fusion V5.1.5 (or later) P/N 810-0163-180013	RC ProLine Fusion: All available	1FANSE	
Challenger: 300, 350, 605, 650	RC RIU-4000: 822-1469-554/602/651/652 RC CMU-4000: 822-1739-601/603/704	CPN 822-1468-310 with SB-8 or SB-13 CPN 822-1468-390	Global 7500 V2.0.2 (or later) P/N 810-0163-380001 RC ProLine 21 Advanced: P/N 946-2720-102/110/130 (or later)		1FANSE	
Embraer: Legacy 450/550 Praetor 500/600	RC RIU-4010: 822-1863-633-638	VHF-4000E: CPN 822-1872-310 with SB-8 CPN 822-1872-390	Embraer Avionics 6.x PLF 810-0163-1E0004 (6.X)		1FANSE	
Various (with Universal)	UniLink-800 SW SCN 31.3 (or later) with External VDR	VHF-4000F: CPN 822-2993-310 with SB-9 CPN 822-2993-390	SCN 1002.1 (or later)	UniLink-800 or 801 SW SCN 30.1 (or later) for DCL only with SCN 1000.5 (or later)	1FANSE	
	UniLink-801 SW SCN 31.3 (or later) with Internal VDR	Internal VDR with SCN 10.3 (or later)	SCN 1002.1 (or later)		1FANSE	
Various (with Garmin)	G3000/5000 V4.5.X, V4.8.X, V5.1.X, V6.2.X (or later)	GDR-66 (or later)	G3000/5000 V4.5.X, V4.8.X, V5.1.X, V6.2.X (or later)		1FANSE	
Not listed?	If your aircraft or configuration is not on this list, please contact your aircraft or equipment manufacturer					

Note: DCIT recommendations for aircraft operating with Data Communications. Individual operator configurations are subject to regulatory approval.

If your aircraft type (system) is not on it, then don't file as capable of en-route CPDLC and don't try and 'participate'.

### For those of you who are on it...

Here is a map of current active CPDLC sites:



**ZID/Indianapolis, ZKC/Kansas City, ZMP/Minneapolis, ZDC/Washington, ZOA/Oakland, and ZMA/Miami** en-route control facilities are all up and running 24/7 now.

We've so far only found a table showing **61 airports** where **CPDLC DCL services** are currently available:

CPDLC DCL SERVICES AVAILABLE								
KABQ	KATL	KAUS	KBDL	KBNA	KBOS	KBUF	KBUR	KBWI
KCHS	KCLE	KCLT	KCMH	KDAL	KDCA	KDEN	KDFW	KDTW
KEWR	KFLL	KHOU	KHPN	KIAD	KIAH	KIND	KJFK	KLAS
KLAX	KLGA	KMCI	KMCO	KMDW	KMEM	KMIA	KMKE	KMSP
KMSY	KOAK	KONT	KORD	KPDX	KPHL	KPHX	KPIT	KRDU
KRNO	KRSW	KSAN	KSAT	KSDF	KSEA	KSFO	KSJC	KSLC
KSMF	KSNA	KSTL	KTEB	KTPA	KVNY	TJSJ		

U.S. DOMESTIC EN ROUTE CPDLC SERVICES CURRENTLY IN DEPLOYMENT

But we know this is a bit out of date. We've counted 65 airports currently operational including these:

- KJAX/Jacksonville
- KPBI/Palm Beach
- KCVG/Cincinnati/Northern Kentucky
- KADW/Joint Base Andrews

## Some stuff on using it

OK, so if you **take-off from an airport that has CPDLC DCL** and which is **in an en-route CPDLC area** then KUSA (because they're who you'll basically be logged onto on the ground) is going to stay active and there is nothing else to do once airborne.

If you take-off logged onto KUSA and **only get into the en-route CPDLC bit later** then again, KUSA stays on and there's nothing more for you to do.

If you take-off logged onto KUSA and then are leaving all CPDLC airspace, it will **auto log off** when it needs to.

For all other scenarios, you probably need to **manually log on** when you reach the place where CPDLC is available.

**KUSA** is available on the ground in the lower 48 states, San Juan and Puerto Rico.

This info is all available here.

L3Harris are very active in all this and get in touch if they spot any irregularities with aircraft involved in the trial (nice to know they're out there, watching).

## Handing over the 'info baton'

So far, all this has been snatched from a bunch of very handy guides that L3Harris publish, so here are the links to those for further info:

- The main L3Harris page on the FAA DataComm stuff
- The CPDLC Pilot Handbook, by L3Harris
- The FAA page on DataComm stuff (not just for this trial, but anywhere they use it)

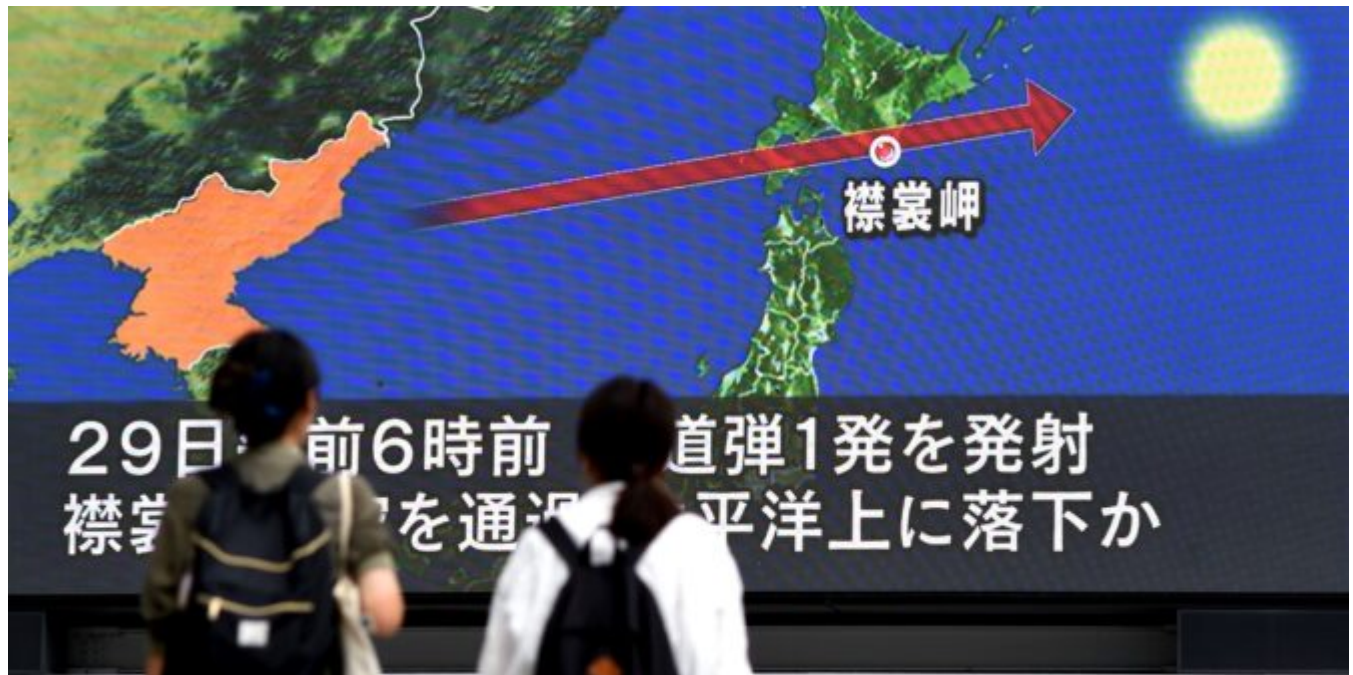
And if you are an operator in the US with questions about this, then speak to these folk –  
DCIT@L3Harris.com

---

# North Korea Missile Threat

OPSGROUP Team  
6 December, 2022





North Korea regularly launch projectiles without announcement. These have minimal impact on international flight operations since they fall short of the major airways.

However, this past week has seen five projectiles launched from Pyongyang, and the most recent – a ballistic missile – did pose a very significant threat due to a path which carried it directly over Japan.

Several governments have issued statements regarding the latest launch, and previous launches.

### Where did the missile go?

On October 4, Pyongyang launched a suspected ballistic missile over Japan. The path took the missile **directly over Hokkaido island**, prompting Japan to issue alerts to their citizens. It subsequently fell into the Pacific Ocean.

The 2800 mile path is depicted below. The missile reached an altitude of around 1000km.

### Previous launches.

This is the **fifth launch in the last week**. The launches often coincide with joint US, South Korean and Japanese military drills, or political meetings. There have been a spate of them throughout 2022, with the last reported in August.

In 2018, five launches were carried out over 10 days after a US aircraft carrier made a port call in South Korea.

This is the **first launch since 2017** which has seen a projectile incur on Japanese airspace.

### How high is the Threat Level?

Following talks with the US in early 2018, **North Korea agreed with ICAO that it would provide adequate warning** of all “*activity hazardous to aviation*” within its airspace. However, in May 2019 North Korea resumed launching missiles into the Sea of Japan, without providing any warning by Notam.

**The ZKKP/Pyongyang FIR is rarely utilised for overflights by foreign aircraft**, and the missiles are usually launched into the Sea of Japan, causing little damage or disruption and falling outside the Japanese



EEZ. However, there is an ongoing threat to aircraft operating in the ZKKP/Pyongyang FIR due to **unannounced launches and risk from falling debris**.

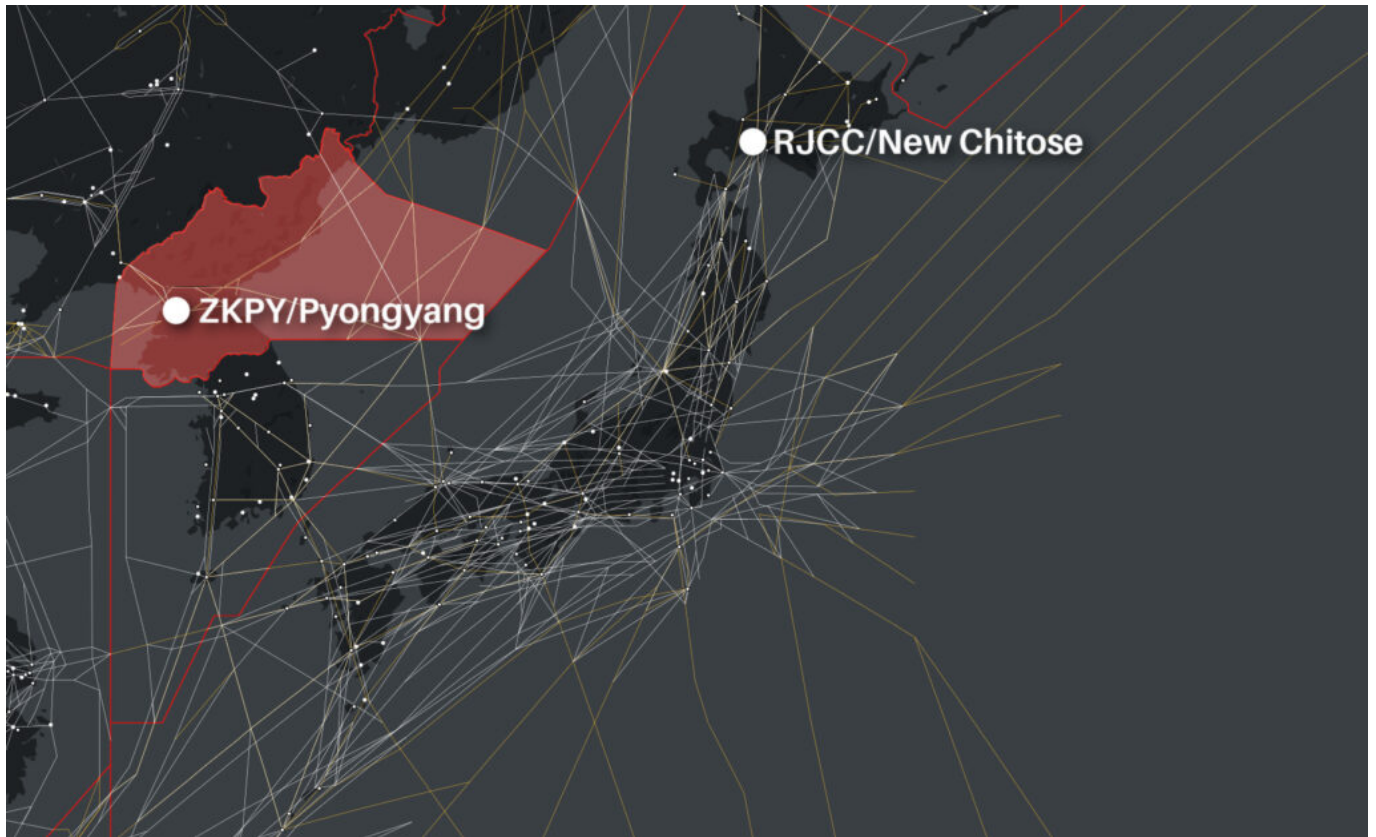
North Korea has multiple airspace warnings from several major authorities. **The threat level has not changed.**

A full list of the **current major cautions and warnings** regarding the airspace, and a **full briefing on North Korea** can be found on [Safeairspace.net](https://Safeairspace.net)

### Japan threat levels.

Launches towards or over Japan pose a much more significant threat, because the path towards the sea and the debris fall area are crossing or within sections of airspace used by civilian flights.

North Korea is suspected of attempting to show how their range could impact US military bases in Guam and is not directly targeting Japan, or threatening the airspace. **The missiles fall well beyond the airways**, however, with the launches being unannounced and potentially growing in frequency, a higher risk level and caution should be taken with operating in the region.



---

## What on earth is a Medicane?

OPSGROUP Team  
6 December, 2022



Hurricane season in the Med is not something you hear said often. But it is a thing, sort of.

So today we thought we'd take a look at 'Medicanes' and try to answer two things with this post. Firstly, what is a Medicanes and secondly, surely there is a better name for it?

### **What is it?**

A Medicanes is a 'tropical like' cyclone that forms in the Mediterranean.

Now don't worry, the Med isn't getting storms the size of the Atlantic ones, or Pacific ones for that matter. But they are getting **ones which are bigger than seen in previous years**, and this does mean additional safety considerations and threats you might not be too aware of.

For example, this area has a lot of aircraft operating in it, and high density traffic and weather avoidance often don't go well together.

### **Where do they generally form?**

They are seen most often developing in the watery area **bounded by the coasts of Spain, France, Corsica and Algeria**. They also form occasionally in the area between the gulf of Sidra up to the Ionian Sea.

They can occur year round, but tend to be most **common between September and January**.

### **How big and bad are they?**

They are only **seen about 1-2 times a year** actually so nothing like the frequency of the Atlantic hurricanes.

They tend to only have a **radius of between 70-200km**, and last about 3 days. A small proportion have achieved Category 1 hurricane level winds, but this is rare.

All in all they lack the size, intensity and duration of their bigger counterparts in other regions of the world. **But don't dismiss them just yet**, because they can still pack a punch and they are growing more frequent.

## **We mentioned the region they form in.**

This is important because Europe is, at the best of times, some busy airspace to deal with. Throw an unexpected storm into the mix and things can get particularly messy.

Move them over airports and you get some **serious delays and disruption**.

## **Should we do anything?**

**Knowing they are there** and planning routes that don't take your poor airplane and crew through them is probably the best idea.

Deviations to avoid mean more fuel burn and effort for ATC, and like we said the airspace can be busy in this area, so planning or **asking for this early is important**.

Don't underestimate how disruptive these can be, and monitor their development. A good spot to monitor is the Medcane watch centre **twitter page**.

And let your crew know about these so they can be on the look out on SigWx charts, (or just in the skies).

## **Now let's talk about the name.**

A **Mediterranean Hurricane**. Yep, I don't like it.

Surely '*mediclone*' would have been more amusing? We're guessing it sounds too, well, sci-fi – conjuring up images of evil doctors creating monsterish clones.

Medcane sounds like a boring zimmer frame manufacturer though so we would like to officially suggest a renaming, and offer these options:

- **A Mediterror** (*A combination of mediterranean and terror*)
- **A Hurrorterranean** (*a mix of hurricane, horror and mediterranean*)
- **An Ouragan** (*'hurricane' but in French because the French always seem a little put out that French isn't used more in aviation lingo, and that sounds a bit Ogreish*)
- **A Stormy Mcstormface** (*I'm British and our public vote naming system remains the best*)

Anyway, not important really.

## **Want some more (proper) info?**

If you want more info on this weird weather phenomenon then check out this very informative EASA post (which is where we took 90% of the info here).

Check out this info on a mighty Medcane which 'hit' Greece in 2020.

---

# Japanese Prime Minister Funeral: Tokyo Restrictions

OPSGROUP Team  
6 December, 2022



Japan is hosting a state funeral for former Prime Minister Shinzo Abe in Tokyo on September 27.

While airport operations should not be disrupted to the extent London airports have been for Queen Elizabeth's funeral (a noise thing), you can expect some disruptions (a capacity thing).

## The Funeral

The funeral will take place on **September 27th, in Tokyo.**

Around 190 foreign dignitaries are expected to attend and **RJTT/Haneda** will likely be accommodating the majority of flights coming in for it.

## Ground disruption

**Activists are planning to hold protests** in the city on the same day, and will most likely gather at major public spaces.

This probably won't include airports given the higher levels of security, and more restricted access at them. Security across the city will be increased though, with additional check points in place, and police monitoring.

**Ground transport delays** are therefore likely, and access across the city is probably going to be reduced.

## Airport Disruptions

There are **no planned restrictions for scheduled commercial flights** into RJTT/Haneda or RJAA/Narita, in fact the Japanese CAB (Civil Aviation Bureau) are yet to release any specific restrictions.

However, previous ceremonies have resulted in restrictions, and **restrictions which particularly impact General/Business Aviation** so here's what we think might happen:

- Loads of visiting dignitaries means loads of visiting aircrafts which means loads less parking and handling capacity for other aircraft.
- From Sep 24-29, no non-commercial or general aviation will be accommodated at RJTT/Haneda unless approved through diplomatic channels.
- It is a big event which is already generating good and bad reactions in Japan, so security is going to be higher, which means some airspace restrictions may be put into place. You can definitely expect something like a 25nm radius around the Imperial Palace as a prohibited area.
- More restrictions at the already busy RJAA/Narita. Mostly night ones (2300-0559 local type things).

### Other options

Narita and Haneda aren't your only two airports. You have a few more worth looking at.

And remember Japan has an **amazing high speed train** so it's easy to get from airport to airport.

**RJCC/Sapporo New Chitose** Two 3000m runways, all equipped with ILS approaches (CAT II/III on the southerly direction runways). But, it has construction going on, so a lot of *stuff* is unserviceable. Check notams and temporary charts before heading in here.

**RJBB/Kansai** Two 4000m runways, CAT II equipped, and all they have amusing "human" names for a lot of their arrivals and departures. Another one with works on though so look out.

**RJGG/Nagoya Chubu** A 3500m runway, CAT II/III equipped.

**RJSS/Sendai** 3000m runway, CAT I both ends.

These all have restrictions on overnight parking with **priority given to VIP flights**.

### What about the Covid entry rules?

Ah yes, we almost forgot! Japan's Covid-related entry rules are **different for passengers and crew**.

**For passengers:** you can check the (fairly straightforward) info on entry rules on the official website here.

**For crew:** technically, the rules are written here, but with some extra info supplied from local agents, here's the lowdown:

- To avoid hotel quarantine, crew who have been in a 'blue' listed country within the past 14 days need to be either vaccinated (3 doses) or get a PCR test issued within 72hrs of departure. Crew who have been in 'yellow' countries must be vaccinated - they don't have the option of a PCR test. You can see the list of yellow countries here.
- Crew don't need to complete the form at the MySOS site, and they don't need to get a visa in advance - they get issued a shore pass on arrival.

If you need the help of a local handling agent in Japan, we recommend you get in touch with Aeroworks at



# Queen Elizabeth II Funeral: Restrictions in London

OPSGROUP Team  
6 December, 2022



The Funeral of Her Majesty Queen Elizabeth II will take place on September 19th, from 0900-1900z. There are likely to be significant restrictions in and around London on the day.

September 19 will also become a new Bank Holiday, and a greater than usual number of closures of businesses can be expected on the day.

Here's what we currently know as of **September 14:**

(All times in Zulu... we think)

## All London Airports

Have a read of our post on London Airport options, and general top tips.

All the airports will operate at a **reduced capacity**. Except a similar thing to what you see on public holidays.

- A **two hour ground limit** is likely at most airports
- **No helicopters** will be allowed (except probably a lot of police helicopters over London, look out for them)

Demand is already building so get your requests in soon if you need to operate in. Important folk from about 120 countries are likely to be attend and guess where they'll all be flying into...

**Security** is going to be significantly higher as well.

### **EGLL/London Heathrow**

The issue is **noise levels**, and trying to manage it alongside where the procession will be taking place, which is why they have something called **"Operation London Bridge"**. The main 'quiet time' will likely be from 1350-1440z.

At the moment, a full stop on operations has not been suggested. However, there is probably going to be significant reductions in operations. So, here's the current plan:

**Westerlies are expected** to be in use, and if they are then the plan is this:

- **0900-1230** Stop on all **arrivals**, but departures will still operate
- **1050-1105** Stop on **all arrivals and departures** during the National two minutes silence. This will be managed tactically (so you'll probably just hold a little longer)
- **1230-1400** Stop on **all arrivals and all departures**
- **1400-1900** Stop on all **departures**, arrivals will still operate
- **1900** Operations will begin to return to normal

**If Easterlies are in use** then it gets a bit more complicated.

- Departures will be stopped in the morning
- Arrivals will be stopped in the afternoon
- But no departures means **no space on the ground**, which means a further reduction in the morning for arrivals as well.

The CAA has confirmed that any cancellations due to all this will be **alleviated**, so make sure you reference '*London Bridge*' when making your request.

**Filing EGLL as an alternate on this date is probably not advisable** as they are unlikely to be able to accept you (except on an Emergency). In fact, the AIP says not to.

### **EGKK/Gatwick**

Gatwick has **some closures** from Sep 14-16:

- **15 Sep Whole airport closed** 0355-0415z
- **16 Sep Whole airport closed** 0250-0405z
- **17 Sep Open but no arrivals or departures** 0225-0420z
- **18 Sep Open but no arrivals or departures** 0310-0425z

So basically **tiny night closures**. Notams A6976/22, A6977/22, A7020/22 and A7021/22 are the ones to

check. We haven't seen anything specific for the 19th.

Signature Handling is also going to be temporarily handed over to the Foreign Commonwealth and Development office so expect slower responses to slot requests and monitor for more restrictions by notam.

### **EGKB/Biggin Hill**

We've not see any restrictions on Sep 19th, but there is a **flypast on the 17th** so it will be closed 1650-1700z (Notam C5209/22)

### **EGLC/London City**

If the westerly **Runway 27** is in use then arrivals will be impacted less, but departures that continue west may be an issue. Early turns and significant extra routing might be required.

If it is the easterly **Runway 09** in use its more difficult again because northerly arrivals and the approach are over the City. There are likely to be restrictions here as well in that case.

### **EGGW/Luton**

- Closed on Sep 18th from 1845-1915 (Notam A6988/22)
- Closed on Sep 19th for 2 hours... but we're not sure the time yet
- Also closed 0000-0530 17-18 for annual maintenance (Notam A6554/22)

### **EGSS/Stansted**

Stansted is expected to be **handling the majority of traffic** coming in for the funeral. Currently, slots are taking longer to get approved because the FCDO is sorting this.

Parking is already filling up fast too so if you need it, book it soon.

- **Night Restrictions** are still in place between 0520-2220z daily
- **Only emergency diversions** will be accepted on Sep 19th due parking and ground capacity limits

### **EGMC/Southend**

- Closed 0530-1300z on the 19th (we haven't seen a notam for this yet)
- The airport is '**strictly PPR**' until the 22nd (Notam P0144/22)

### **EGTK/Oxford**

(Because it's not really London) they aren't expecting any restrictions or capacity problems.

### **EGLF/Farnborough**

We haven't spotted any restrictions for here. The FBO says '**normal weekend/public holiday** restrictions'.

## **EGWU/Northolt**

RAF Northolt has a full civilian ban in place between 1215- 1300z and an arrivals embargo between 1710-1810z on the 19th. The airport itself will operate 1100-1800z



## Other UK Airports

The operational stop during the 2 minutes silence can be expected at airports across the UK.

## Other bits of the World

The UK Monarch is Head of State for 14 Commonwealth countries, and has ties with another 44 or so. So a fair few countries may turn Sep 19 into a Public Holiday.

- **Bermuda** Sep 19th
- **New Zealand** One off Memorial Day Sep 26th
- **Australia** Public Holiday Sep 22nd
- **Canada** Sep 19th
- **British overseas territories** Sep 19th

## Notams

Notams will be published confirming the planned restrictions. However, **the situation may change short notice** due a change in wind direction.

If a departure cancellation is required, it is likely the arrival will be as well (and vice versa, although that's rather obvious). They **won't be accepting rescheduling of flights** until they have a better idea of capacity levels, how quickly it will return to normal, and how many stands they have available.