

Ethiopia Airspace Update

Opsgroup Team
26 July, 2022



Update - July 26, 2022

There has been no major fighting in Ethiopia's northern Tigray region since late Dec 2021. A ceasefire agreed in March 2022 has mostly been upheld, and Ethiopia's federal and Tigray regional governments look set for negotiations soon.



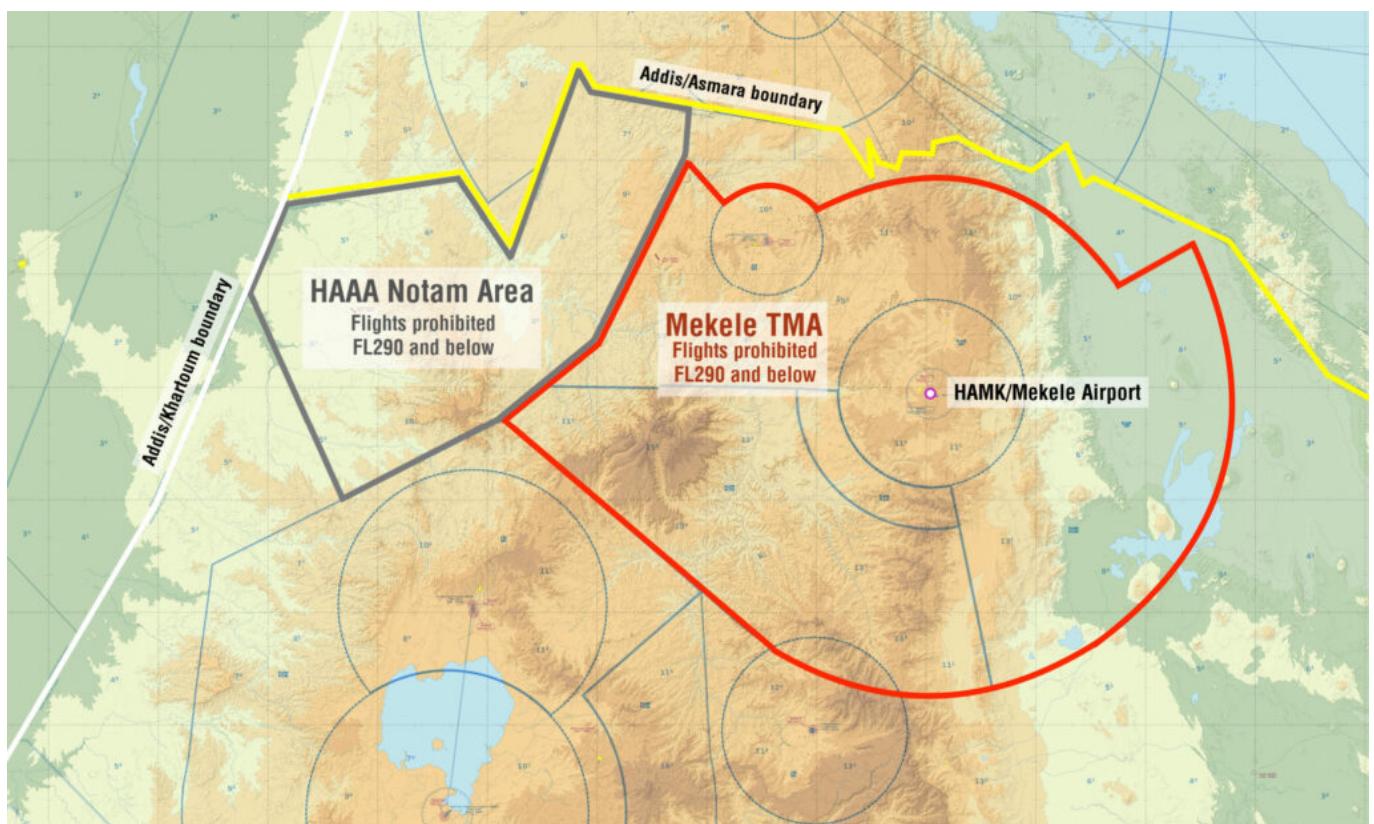
For the time being though, **airspace in the north of the country should still be avoided** – several states maintain active airspace warnings for the HAAA/Addis FIR, and Ethiopia still have a Notam in place banning all flights at FL290 and below.

Here's the current version of the Notam, the content of which hasn't changed since its first iteration:

HAAA A0220/22 - FLIGHT IS PROHIBITED TO FLY AT OR BELOW FL290 WITHIN MEKELE TMA AND WITHIN THE AIRSPACE DEFINED BY JOINING THE FOLLOWING SUCCESSIVE POINTS AND LINES

135914.7N 0362048.9E
130042.8N 0365122.9E
ET0BU(132132N 0373433E)
TILUD(134116N 0375950E)
EVITO(142911N 0382424E)
THE COMMON FIR BOUNDARY BETWEEN ADDIS AND ASMARA AND
THE COMMON FIR BOUNDARY BETWEEN ADDIS AND KHARTOUM
REF AIP SUP A 04/2021. GND - FL290, 27 MAY 09:00 2022 UNTIL 27 AUG 09:00 2022.
CREATED: 27 MAY 09:00 2022

Better yet, here's a picture of what this actually looks like:



Update - Nov 18, 2021:

- The US published a new airspace warning and Background Information Note for Ethiopia, cautioning against overflights of the HAAA/Addis Ababa FIR below FL290. The conflict between the Ethiopian military and opposition forces had intensified. Aircraft below FL290 were at increased risk from anti-aircraft fire.
- The US, the UK, Germany and France all issued security warnings advising their citizens to

leave immediately.

Update - Nov 9, 2021:

- Ethiopia is on the verge of civil war. The government declared a six-month nationwide state of emergency on Nov 2, following increased fighting between the Ethiopian military and opposition forces in the Tigray region in the north of the country.
- Concern that ATC services in the HAAA/Addis FIR may be affected with little notice. Overflights of Ethiopia may be at increased risk of anti-aircraft fire at all levels.
- Several factors impacting risk to overflights: military aircraft being used in combat roles, unmanned aircraft operating in region, unstable political situation on the ground, and conflict spilling over into adjacent regions. All of this pointed to an increased risk of misidentification and miscalculation - aircraft mistaken for something of military interest, or simply caught in the crossfire.
- Opposition forces in Tigray have access to conventional surface-to-air missile systems that can reach aircraft as high as FL260. They have also previously shown an intent to target aviation interests with rockets and ballistic missile attacks on airports within the region, as well as across the border in Eritrea. Other military interests in the area have weapons capable of reaching much higher - including the Ethiopian military. More sophisticated systems are present in or near the region that are capable of reaching as high as FL490. For context, in August 1999 the Ethiopian military shot down a Learjet near the border with Eritrea. Then in May 2020 they also downed an Embraer 120 in Somalia. Both were misidentified.

Further reading

SafeAirspace.net is our conflict zone and risk database. Click here for a full briefing on the situation in Ethiopia.

SAFE AIRSPACE

Conflict Zone & Risk Database
All current warnings, in one place

Updates **Alerts**

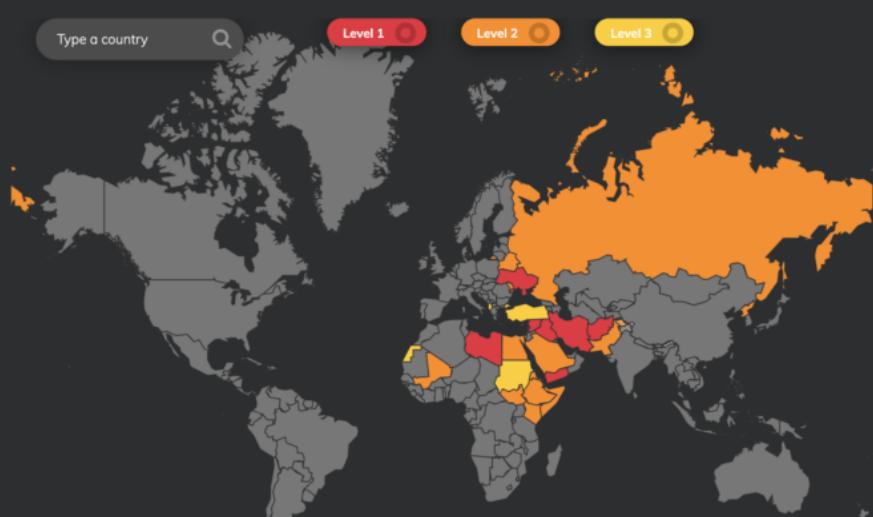
Ethiopia **26 Jul**
Update to summary: No major fighting in Ethiopia's northern Tigray region since late Dec 2021, though several airspace warnings remain in place.

Mali **22 Jun**
New Germany Notam: Overflights should be at FL260 or above (supersedes older info in AIC 14/22 which says that overflights should be completely avoided).

Syria **16 Jun**
Germany AIC updated, no change to warning: Do not enter Syrian airspace.

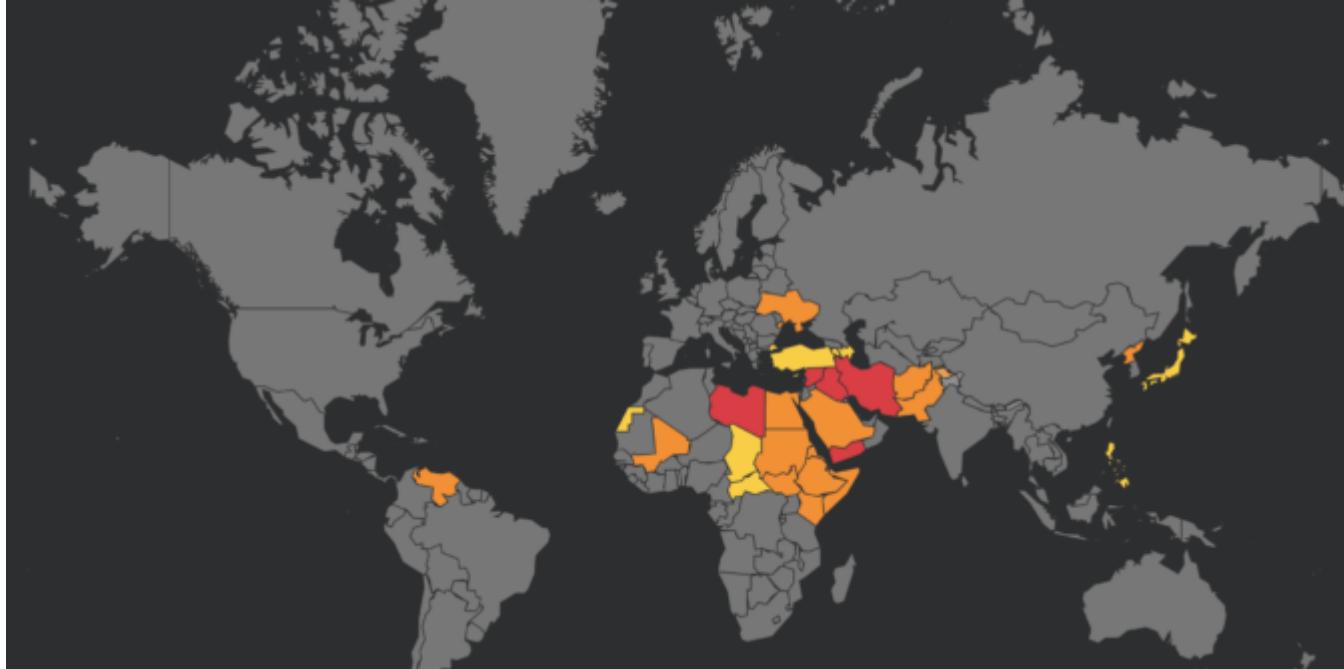
Type a country

Level 1 Level 2 Level 3



SafeAirspace: 2021 Update

Opsgroup Team
26 July, 2022



2020 was a heck of a ride. But therein lies the risk – **what else might you have missed amongst all the Covid-related noise?** Sadly, conflicts and their risks to civil aviation have not taken a break during the pandemic.

As it's a new year, we thought **a summary of Airspace Risk** was called for. Here's what's making headlines at the moment:

Saudi Arabia & Yemen

Houthi rebels in Yemen are regularly firing **explosive drones and rockets** across the border into Saudi Arabia, and these usually target airports in the south such as **OEAH/Abha** and **OEGN/Jizan**. Their latest attack was on **OYAA/Aden** airport in late December which resulted in mass casualties.

Saudi Arabia continues to retaliate with airstrikes. The latest was in the capital **Sanaa** just weeks ago, where multiple munitions landed near the airport.

The risk to aviation is that **overflying aircraft may get caught in the crossfire** or might be **misidentified by Saudi air defences**. Active terrorist groups in Yemen may also use anti-aircraft weaponry to target foreign interests.

The FAA prohibit all US operators from entering most of the OYSC/Sanaa FIR at any level. Only two airways are allowed, and they are well off the coast – **UT702** and **M999**.

There are no restrictions on Saudi Arabia but **use caution in the southern regions**. France and Germany have issued their own warnings.

*SafeAirspace **Yemen** page – click here.*

*SafeAirspace **Saudi Arabia** page – click here.*

Iraq

Rocket attacks on military interests at airports have become a common occurrence. They are generally fired by local militia without warning. **ORBI/Baghdad** is frequently targeted, along with other airports including **ORER/Erbil**. There is a clear risk to aircraft at low levels.

US relations were further strained through 2020 with multiple attacks on the US embassy in Baghdad. The tensions escalated to a point where the US considering closing it.

Foreign aircraft continue to be at risk from **armed militia who have access to portable anti-aircraft weaponry**, while **misidentification by the air defence systems** of multiple foreign forces in the country is also possible.

The FAA has extended its ban on US operators entering the Baghdad FIR **at any level**. Even though the SFAR says you can enter above FL320, the long-running Notam KICZ A0036/30 says otherwise.

*SafeAirspace **Iraq** page - click here.*

Syria

There have been several recent **Israeli airstrikes on targets throughout Syria**. In late December there are reports that Israeli fighters transited Lebanese airspace at low level causing alarm in Beirut before attacking targets in Western Syria. Just weeks ago, several sites around Damascus were targeted by Israeli missiles.

The primary risk is that aircraft may be **misidentified by Syrian air defence systems** which are regularly activated. Civil operators may get **caught in the crossfire** as missiles may erroneously lock on to the wrong aircraft.

The FAA are taking no chances - the ban on US operators entering the OSTT/Damascus FIR at any level has been extended a full three years to 2023.

*SafeAirspace **Syria** page - click here.*

South Sudan

Just this week ICAO issued a concerning warning about the risk to aircraft operating below FL245 in the **HSSX/Khartoum FIR over South Sudan**, or flying in and out of **HSSJ/Juba**. They are 'gravely' concerned about ATC disruptions, a lack of contingencies, inadequate training of controllers, limited info about equipment outages and a lack of co-ordination with other ATS units.

*SafeAirspace **South Sudan** page - click here.*

Emerging Conflict Zones

2020 saw **three new conflict zones** emerge, here is what is happening with them now.

Ethiopia

A civil conflict erupted in October last year in the **Tigray region of Northern Ethiopia**. The government went to war with the TPLF - a regional force seeking independence.

The region's airports were closed and TPLF showed an intent to internationalise the conflict by attacking aviation interests. They fired rockets into Eritrea targeting **HHAS/Asmara**, and also attacked multiple airports to the South of the Tigray region.

Two airways were closed (T124, and M308) with **no explanation of the risk**. Other airways remained open but uncomfortably close to the fight – especially UG300, UN321 and UL432. **No airspace warnings** were issued despite the dangers.

What's the latest?

In late November Ethiopian forces captured the region's capital **Mekelle** and regained control. Remaining TPLF forces have retreated leaving behind a humanitarian disaster and a vow to continue the fight. Since then, the **airway closures have been removed** and things have gone quiet, **but an airspace risk remains** – armed militia continue to be active in Northern regions and may be looking to make a statement. **Be wary of operating in the area.**

Western Sahara

Late last year the region's independence movement (the Polisario) declared war on Morocco for breaching a ceasefire agreement. The FAA published a warning that the Polisario **might have access to anti-aircraft weaponry** left over from previous conflicts.

What's the latest?

It is still an **active conflict zone**. The fight has reached the international stage after the US declared their support for Morocco. The Polisario have indicated they are willing to at least talk, but so far have not put down their weapons. So, it is a wait-and-see type deal.

The risk to overflying aircraft remains. The GCCC/Canarias FIR keep extending a Notam advising operators to **not fly below FL200** on the following airways: **UY601, UN728 and UT975**. However, the reason is still missing: because of the **risk of anti-aircraft fire**. The GOOO/Dakar FIR haven't issued any warnings despite the threat. Take care if operating in the area.

Armenia-Azerbaijan

In September last year, an ethnic conflict erupted over a disputed territory in Western Azerbaijan – **Nagorno-Karabakh**. The fight was between Azerbaijan and Armenia.

As a major air corridor for en-route traffic, there were **significant flight disruptions**. Azerbaijan swiftly closed all but one west/eastbound airway and routed traffic via Georgia. Armenia asked aircraft to take extra fuel and expect re-routes. The conflict was short but intense, with heavy artillery fire from both sides. The conflict eventually spread beyond the contested regions with longer range weapons. The entire border region posed a **risk for civil aircraft**.

What's the latest?

For once the news is good. In November a ceasefire agreement was signed with the help of Russia. Armenia effectively lost and withdrew from the region and **the conflict was officially over**. Armenia removed its airspace warning, while Azerbaijan re-opened the affected airways and a large section of airspace near the border.

With the conflict now over, and no new reports of significant fighting since the peace agreement in November, direct crossing traffic between the two countries is now technically possible again. However, **most East-West flights are currently still electing to go further north** instead, connecting between Azerbaijan and Georgia's airspace, avoiding Armenia.

What about Safeairspace.net?

Our conflict zone and risk database is **updated constantly**. We assess risk with official sources and build

a simple picture for you of those need-to-know-places.

There are currently 5 regions which are assessed as a **Level 1 Risk - No Fly**. These are: **Iraq, Iran, Yemen, Libya, and Syria**.

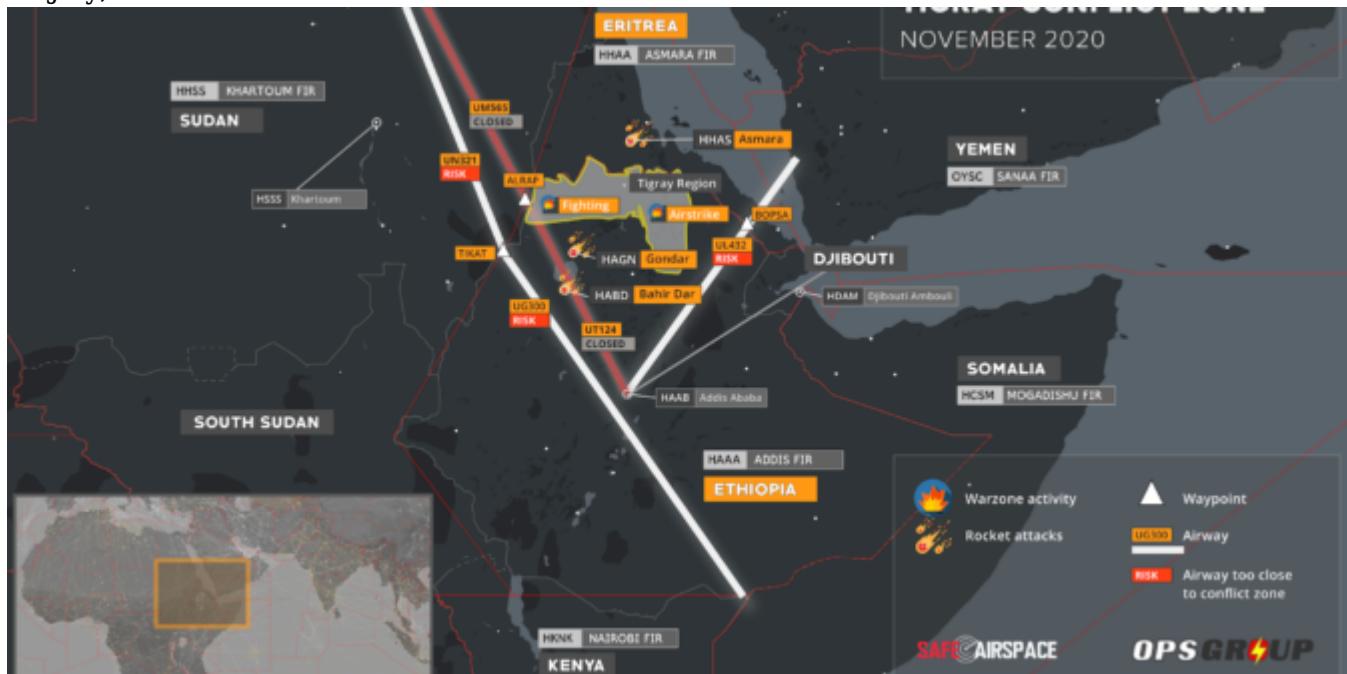
Head over to SafeAirspace.net and take a look. With a single click you can download a **risk briefing** of the entire world in just a few pages of nice simple English.

The mission of SafeAirspace is this: to provide a single, independent, and eternally free resource for all airspace risk warnings, so that airlines and aircraft operators can easily see the current risk picture for unfamiliar airspace. If you know of a risk not listed on the site, or you have anything else to add, please get in touch with us at news@ops.group

Airspace Risk Warning - Ethiopia and Eritrea

Opsgroup Team

26 July, 2022



There is a new Conflict Zone in the east of Africa, which carries elevated risk to flight operations that may not be obvious from NOTAMs or other risk warning sources.

Some airways have been closed by the Ethiopian and Sudanese CAAs. Other airways that are still open are very close to the Conflict Zone. These are frequently used by international operators on the Europe- East Africa route. In particular: UN321, UG300 and UL432. **We are concerned that operators may be using these routes without being aware of the risk.**

OPSGROUP has today issued an Airspace Risk Warning to its members.



Airspace Risk Warning	
ETHIOPIA & ERITREA	HAAC FIR (ADDIS) HHAA FIR (ASMARA)

ISSUED: 17 NOVEMBER 2020

TO: OPSGROUP MEMBER AIRCRAFT OPERATORS

Notice to Flight Crew and Dispatch

There is a new Conflict Zone in the east of Africa, which carries **elevated risk to operations that may not be obvious** from NOTAMs or other risk warning sources.

Under the SafeAirspace tier system, this airspace is assessed as **Level 2 – Danger Exists**.

New Conflict Zone – Tigray

LEVEL 2 – DANGER EXISTS

The conflict between the Tigray People's Liberation Front (TPLF) in the north of Ethiopia, Government forces, and a regional force that wants independence, called the TPLF. In the past week, there has been heavy fighting, multiple airstrikes, missiles launched, and a growing refugee crisis. A domestic conflict has become a cross-border war.

Danger – Airways near Conflict Zone

Some airways have been closed by the Ethiopian and Sudanese CAA. Other airways that are still open are very close to the Conflict Zone. These are frequently used by international operators on the Europe-East Africa route. In particular:

UN221
UG300
UL432



See full map on following page.

Guidance

Enroute – Overflight:
If you're transiting any airspace near or over Ethiopia, Eritrea, or Sudan, take a close look at the map and cross check the airways you are operating on. Several open airways are exceptionally close to the Conflict Zone. Just because they are open does not mean they are safe.

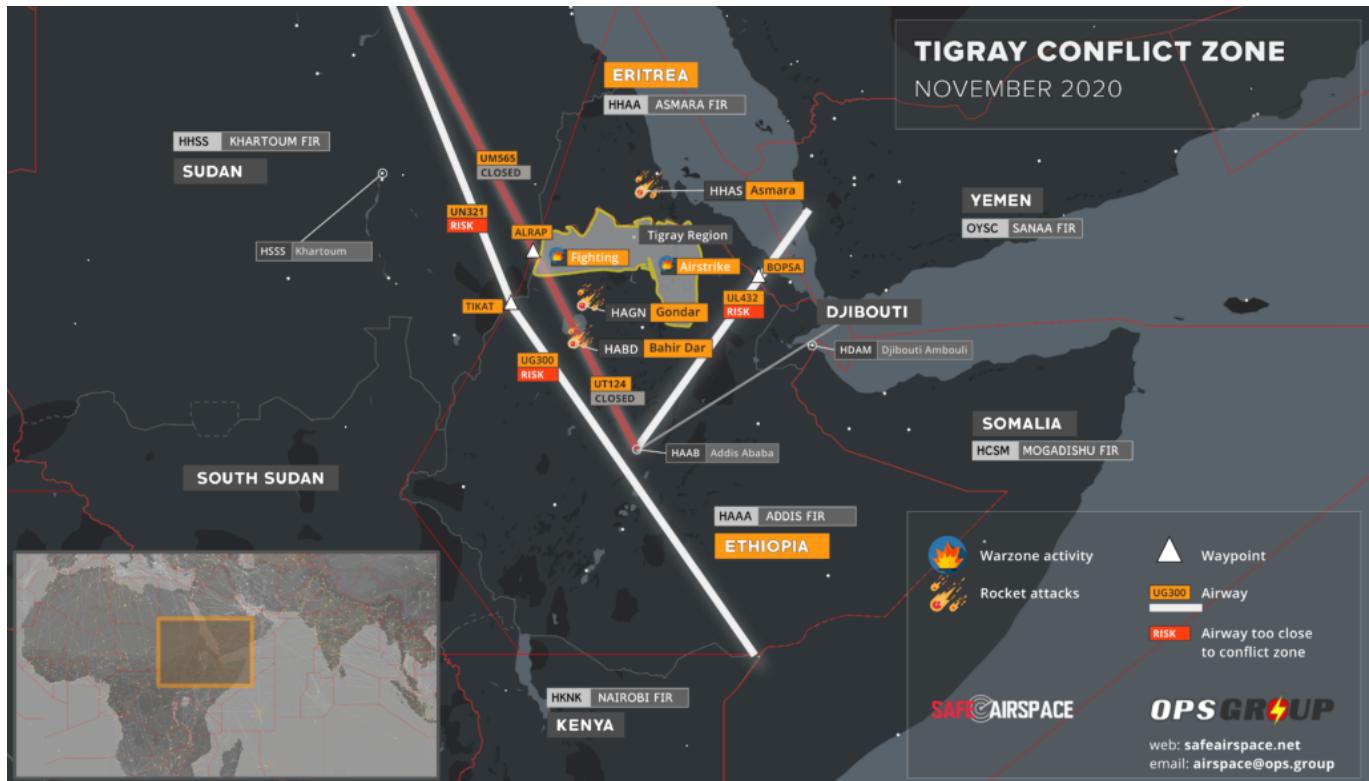
Landing – Airports:

Airports in the north of Ethiopia, including the Tigray and Amhara regions, are unsafe at present. Many are closed. There have been missile attacks on HABD/Bahir Dar, and HAGN/Gondar.

HHAS/Asmara in Eritrea should be avoided – missile attack on Nov 14, 2020.



Download OPSGROUP Airspace Risk Warning – Ethiopia/Eritrea (PDF)



Download Hi-Res version of this Conflict Zone map

Situation

The region being disputed is called Tigray. It's in the north of Ethiopia. Government forces are fighting a regional force that wants independence, called the TPLF. In the past week, there has been heavy fighting, multiple airstrikes, missiles launched, and a growing refugee crisis. A domestic conflict has become a cross-border war.

Our Concerns

There are many warning flags that point to previous shootdown incidents – not least MH17 and PS752. These are the reasons we are particularly concerned about the risk to civil aviation in this region:

Local NOTAMs are misleading

The NOTAMs issued by the Ethiopian CAA to close airways in the conflict zone (UM308, UT124) do not say why they are closed. NOTAMs issued to reroute traffic to adjacent routes (UN321, UL432) do not say why they are rerouted. The same applies to NOTAMs issued by the Sudan CAA to close airways and reroute traffic. Flight crews and aircraft operators are therefore not alerted to any conflict in the area by NOTAM.

Arbitrary Reroutes

Traffic is being rerouted to other airways by ATC, but it's not clear, or likely, that there has been any risk assessment. European flights are now using UN321/UG300, and UL432 – all of which come exceptionally close to the conflict zone. As we've learned from MH17 and PS752, just because airspace is open and available, does not mean it is safe.

Previous shootdowns

The Ethiopian Army shot down an Embraer 120 in May 2020, in Somalia. The Ethiopian Air Force shot down a US Learjet in August 1999 in the Eritrean border region. Both were misidentified.

No guidance to operators

No aviation authorities or official sources have issued any guidance or warnings to date via normal channels.

Rapid Escalation of Conflict

The situation has intensified rapidly, and is extremely unpredictable and unstable. The impact on aviation has not been widely reported.

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Information Sources

The Conflict Zone & Risk Database at SafeAirspace.net contains all current published warnings and alerts for Ethiopia and Eritrea.

Ethiopia

Risk Level: Two - Danger exists

[about risk levels]

Nov 2020: Major escalation of the conflict in the Tigray region, along the Ethiopia/Eritrea border. Some airways have been closed by the Ethiopian and Sudanese CAAs. Other airways that are still open are very close to the Conflict Zone. These are frequently used by international operators on the Europe- East Africa route. In particular: UN321, UG300 and UL432. Multiple airports have been targeted by rockets. Missiles were fired across the border into Eritrea, targeting HHAS/Asmara. Within Ethiopia, HABD/Bahir Dar and HAGN/Gondar were also targeted.

Sep 2018: Risk due to hidden ATC strike. Ethiopian ATC controllers went on strike, and the ECAA and Ethiopian Airlines recruited both retired and foreign controllers to pick up the slack. Ethiopia denied several times that there was in fact a strike happening at all. The strike ended September 7th. Many were not qualified to operate in Ethiopian airspace, due to inexperience.



The countries that issue the most relevant updates for unsafe airspace are:

- US (FAA) - through Notams and SFARs
- UK (DFT) - by Notam and then AIP
- Germany (BMVI) - by Notam
- France (DGAC) - by AIC

Note: Operators should not rely on EASA Conflict Zone Information Bulletins (CZIB's) as a primary source of information. These serve only as pointers to the above sources, and often are not issued until several months after updates, if at all. Note that the Civil Aviation Authorities of the countries whose airspace is determined to be unsafe are unlikely to issue reliable guidance.

Group effort

This information is compiled from OPSGROUP member input, information, intelligence and analysis. If you have additional information to share, please send it to report@safearspace.net.

Members: More information

 **Risk RADAR** BY OPSGROUP

Ethiopia: What are other operators doing?

 0 % with Avoid or Do Not Land policy

Avoid	0%
Do not land	0%
Specific routes only	0%
Case by case	0%
Unrestricted	0%
No policy	100%

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TAKE PART SEE ALL

Notifications

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to receive Conflict Zone & Risk warnings.

We will alert you when there are significant changes, and send you updated summaries when

The screenshot shows the OPSGROUP platform interface. On the left, a sidebar includes links for Dashboard, Briefings, Community, Airport Spy, Safe Airspace, Spy report, and APPS (Apps, Admin Tools). A Member Score bar is at 195. The main area features several modules: 'Airport Spy' (Reports from downroute, Launch button), 'GoCrow' (Route planning tool, Start button), 'Community' (Meet the others!, Go button), 'Safe Airspace' (Places to avoid), 'Briefings' (The latest changes, Read button), and a central 'Sign in' button. Below these are 'Latest Forum posts' and a 'New Conflict Zone - Ethiopia, Eritrea' post from 10 mins ago. On the right, a sidebar lists recent activity from users: KZZZ USA (A quarantine-free travel corridor may soon be possible between New York and Lon ...), LFZZ France (There is a big military exercise happening in the LFMM/Marseille FIR from Novemb ...), MXZZ Central America (Hurricane Iota is now a catastrophic Category 5 Hurricane, currently making land ...), PAYA Yakutat, USA (Bear alert! An Alaska Airlines 737 collided with a brown bear while landing on S ...), EQLL London Heathrow, United Kingdom (A large number of airport workers including firefighters, baggage handlers and e ...), LZZZ Slovakia (There are new entry requirements for all passengers. The rules are tricky, so he ...), HHZZ Eritrea (Two rockets fired from Northern Ethiopia reportedly hit the country's main air ...), ZMZZ Mongolia (All charter flights have been banned indefinitely. They were previously allowed ...), and SCZZ Chile (Borders will reopen to foreigners on November 23 for the first time in nine mont ...).

OPSGROUP Members: More information in the discussion in the Forum about Ethiopia/Eritrea:
 Forum > International Ops > New Conflict Zone Ethiopia/Eritrea

All links to further resources are there.

OPSGROUP featured on Al Jazeera

Opsgroup Team
 26 July, 2022



As a group of 4000 pilots, dispatchers, and controllers, we stand for safety ahead of commerce. Al Jazeera interviewed our founder, Mark Zee, about the current risk in Ethiopian airspace created by the ATC strike, and why we care so much about getting the truth out to our members.

<https://www.facebook.com/flightservicebureau/videos/244638736242463/?t=1>

ATC Strike over, but nine Ethiopian Air Traffic Controllers remain in jail

Opsgroup Team
26 July, 2022



5th September, update:

As of this morning, most controllers have **returned to work**. Some concessions made by ECAA. Addis ACC and TWR are again staffed with qualified controllers, so the safety situation, for now, is restored. However, 9 remain in jail. Returning controllers were forced to sign an 'admission' of illegal strike action in return for amnesty. IATA In Flight Broadcast Procedure requirement for Addis FIR remains in place, meaning you must broadcast on 126.9 as in other areas of concern in Africa. Further as we get it.

4th September:

Last week we were one of the first to expose the attempted ATC Strike cover up by the Ethiopian Civil Aviation Authority.

As a reminder, **untrained and uncertified foreign controllers, retired and local non-operational ATC personnel are being used to control air traffic over Ethiopia.**

It is a catastrophic misjudgement, creating a safety risk in the Addis FIR and at Ethiopian Airports for pilots and passengers alike.



Here are some more updates since our last article:

- On August 29, The International Federation of Air Traffic Controllers Association (IFATCA) penned a **letter to the Prime Minister** of Ethiopia. You can read it [here](#).
- The neighbouring controllers in **Kenya** warned that flights in and out of Addis Ababa are not safe. You can view their letter [here](#) – specifically they warned that **the 'possibility of air misses' is real**.
- The ECAA over the weekend rejected concerns regarding the safety of Ethiopian airspace, specifically calling the claims from Kenya as "*outright lies.*" The ECAA has said that ATC are operating "*in accordance with ICAO Annex 1 provisions.*" They **did not deny** however that foreign and retired ATC are being used.



- The ECAA also outlined that the national carrier, **Ethiopian Airlines**, has "awarded" **veteran** Air Traffic Controllers, who are performing their "**national obligation.**"
- However on Monday, the local state affiliated broadcaster, Fana BC, reported that the Federal Police Commission had detained **nine** individuals on **suspicion** of attempting to disrupt international flights and **coordinating a strike** that began last week. This has been quickly condemned on social media, as many locals called on the government to resolve the issues raised by the ATCs rather than resorting to intimidation.

The ECAA claims that “some” of the striking controllers have returned to work.

Major airlines and uninformed passengers continue to fly into and over Ethiopia and **this continues to be a major safety risk.**

Do you have more to add this story? Please, **let us know!**

Ethiopia risking flight safety to cover up ATC strike

Opsgroup Team

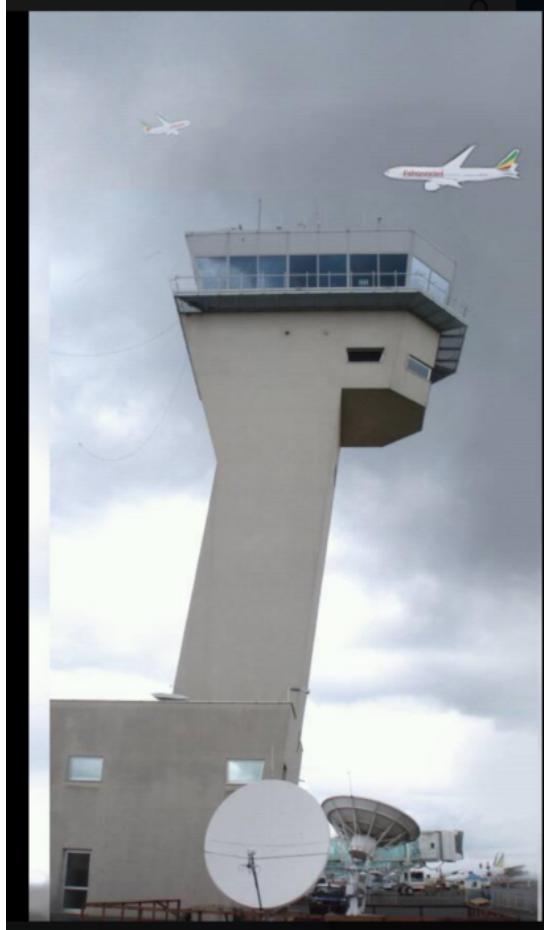
26 July, 2022



- **Ethiopian ATC on strike, no Notams, government hush up**
- **OPSGROUP alert for the Addis Ababa FIR**
- **Airspace risk - unrated controllers, some foreign and unfamiliar**

Air Traffic Controllers are on strike in Ethiopia, and Ethiopia would prefer that you don't know this. We, as OpsGroup, would prefer that you do.

Ethiopia would also prefer that it has no impact on the flight operations of its national carrier, Ethiopian Airlines. Therefore, they have drafted in foreign controllers to replace the strikers, issued no Notams, hushed any publicity, and proactively declared ‘operations normal’ (complete with bizarre, hand drawn airplanes).



Ethiopian Civil Aviation Authority Like This Page · 27 August · [...](#)

The air space management is well underway as usual at Addis Ababa Bole International Airport.

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Most relevant ▾

Temesgen Kitessa The airspace of Ethiopia is in danger... It's false representation of the actual fact from ECAA [Like](#) [Reply](#) · 1d [2](#)

Ashe Man I am so pissed off, This is what happen working with UNEDUCATED managers and some decadent coworkers. it is so shame the managers choose this kind unmindfull decision and posting this. [Like](#) [Reply](#) · 1d [2](#)

[Write a comment...](#) [...](#)

European airlines – and frustrated passengers – will watch with great interest, thanks to their own ATC strike woes: regular stoppages by French, Italian, and Greek controllers have this summer, once again, been the source of massive cancellations, reroutes, and delays. Has Ethiopia found the golden elixir, the magic solution to a long-running problem? **Is this how to handle a strike by your nations' Air Traffic Controllers?**

It absolutely is not. It is a catastrophic misjudgement, creating a safety risk in the Addis FIR and at Ethiopian Airports for pilots and passengers alike. Ethiopian airspace, this week, is most definitely not 'operations normal' – it is unpredictable and unsafe, staffed by unrated, inexperienced controllers, many from abroad – evidenced already by alarming reports of close calls from adjacent Area Control Centers – read on.

The facts are this: faced with an upcoming strike by ATC, Ethiopian Airlines – now Africa's largest airline – formed what in the boardroom might have seemed a workable plan: Recruit a bunch of controllers from other countries, fly them in to Addis, and have them do the work of the striking staff.

Planned Air Traffic Controllers Strikes Will Have No Effect on Ethiopian Airlines Operations

Addis Ababa, August 25, 2018

Ethiopian Airlines would like to inform its esteemed customers that the planned strike by Ethiopian Civil Aviation Authority Air Traffic Controllers (ATCs) in Addis Ababa on Monday August 27, 2018 will have no effect on its operations.

The airline has made provisions for adequate alternative measures enabling smooth conduct of its operations with no delays or flight disruptions, should the planned ATCs strike take place.

Ethiopian will ensure that, above all else, the interests of its esteemed customers are protected and their flights operate smoothly and on-time.

The first batch of foreign controllers came from the Democratic Republic of the Congo, a small group described by the local controllers, unsurprisingly, as mercenaries. When the strike started at 7am this past Monday morning, they were ready to go. Not content with stopping there, the requests from ECAA – the Ethiopian Civil Aviation Authority – for more external controllers went out thick and fast, like an Ambien fuelled shopping spree on Amazon. 30 requested from Sudan, 24 from Kenya. More from Zimbabwe, Malawi. Finding those requests rejected, and resistance from other ATC agencies, the biggest request yet: 120 controllers from ASECNA.

The plan, commercially, is understandable. The wish to keep their airplanes flying is not endemic to Ethiopian Airlines. British Airways, Ryanair and Easyjet, have all made very public their frustrations with ATC strikes. An association, A4E, was formed to fight the problem at European level.

But here's why the Ethiopian solution doesn't work.

And as a former Air Traffic Controller, and Airline Pilot, I can tell you why.

Air Traffic Control is complex. That's not a secret. On average, it takes a controller three months to gain a 'rating', or qualification, for a specific piece of airspace; that's how long it takes to become comfortable with the 4D picture in front of you to provide a flawless ATC service. More complex airspace could take six months.

You have to learn each corner of your bit of sky. Learn the rules of the sector, learn the agreements you have with other centres about how you will receive and present traffic at the boundary. But the most important thing you learn is **how the traffic flows**.

ATC is not an aerial traffic battle whose landscape changes each day. It is not a web of complex contrails that, seen from the ground, appear to merge and diverge at random. The traffic flow is a largely predictable set of events, where the same airlines are operating on the same routes – providing a basis for us, as controllers, to learn the patterns of the flow, and to learn a trick for every trajectory.

This is key. It's been 15 years since I worked the North Atlantic flow in Shannon, but I remember the callsigns, the flows, and how to handle them, like an indelible challenge and response game in my mind.

"Shamrock 37J, airborne Shannon" : "direct to Strumble, climb him to 270".

"Belfast departure for Tenerife" : "stop him low, get him under the NAT traffic".

"Two converging at LIFFY" : "Drop the Speedbird, he's for Manchester".

Humans learn patterns. This is how ATC works. We fill a bucket full of "stuff we've seen before", leaving us free to concentrate on the few things we haven't. This is the flow. If you watch 737's fly up the Hudson on a hot summer morning, this is the La Guardia flow. Not an inch left or right. Heading into Amsterdam?

"Direct to Pampus, down to FL70". One after another.

This is why we need three months to learn the airspace. For the flow. And this is why, when I found myself in New Zealand, learning to operate as an Air Traffic Controller far away from Shannon, I was floundering, like one of those dreams where you running but standing still. **I am a controller, but I can't control.** I don't know the airspace, and I don't know the flow. Slowly, over the months, geography takes shape, traffic patterns show themselves, situations become seen. I start to get a sense of distance and time on my scope – or scopes, because New Zealand is long and thin I have to reorientate my thinking north-south, rather than east-west, as in Shannon. Out of the mist of training, I am a controller again, but it takes time. A lot of time.

Ultimately, I can reach the point where I can do my job – the real job of an Air Traffic Controller – to be familiar enough with the airspace and traffic that I have “the picture”. The full situational awareness, with most climbs, descents, speeds, and vectors being routine and familiar, means I can spot the something that's off, wrong, going to develop into a conflict, and do so intuitively, like a sixth sense. Air Traffic Control is an art, it's a dance. You don't do it by complex calculations in your head, you don't need a computer. It's the visual in front of you – radar or tower – coming to life in your brain, you feel it, and the solution becomes instinctive.

And this is why you can't bus in a set of replacement controllers, shuffle them down the corridor into the radar room, and up the stairs to the tower, and expect a safe, efficient, and orderly flow of traffic.

Controllers know the power of the strike. In most countries, it is used rarely, and fairly. They understand the impact on airlines and passengers. There are many other forms of industrial action a controller can take – like a training ban, an overtime ban – before reaching the point of actually stopping work.

Commerce will always find a way to continue. Safety is different, and delicate. It must be nurtured and protected. When the two collide head on – the commerce of keeping an airline flying, vs. the safety of an established, effective Air Traffic Control system – safety must take precedence. Here, safety means accepting the strike, as is – and working with the controllers, quickly, to find a solution. Let them be heard.

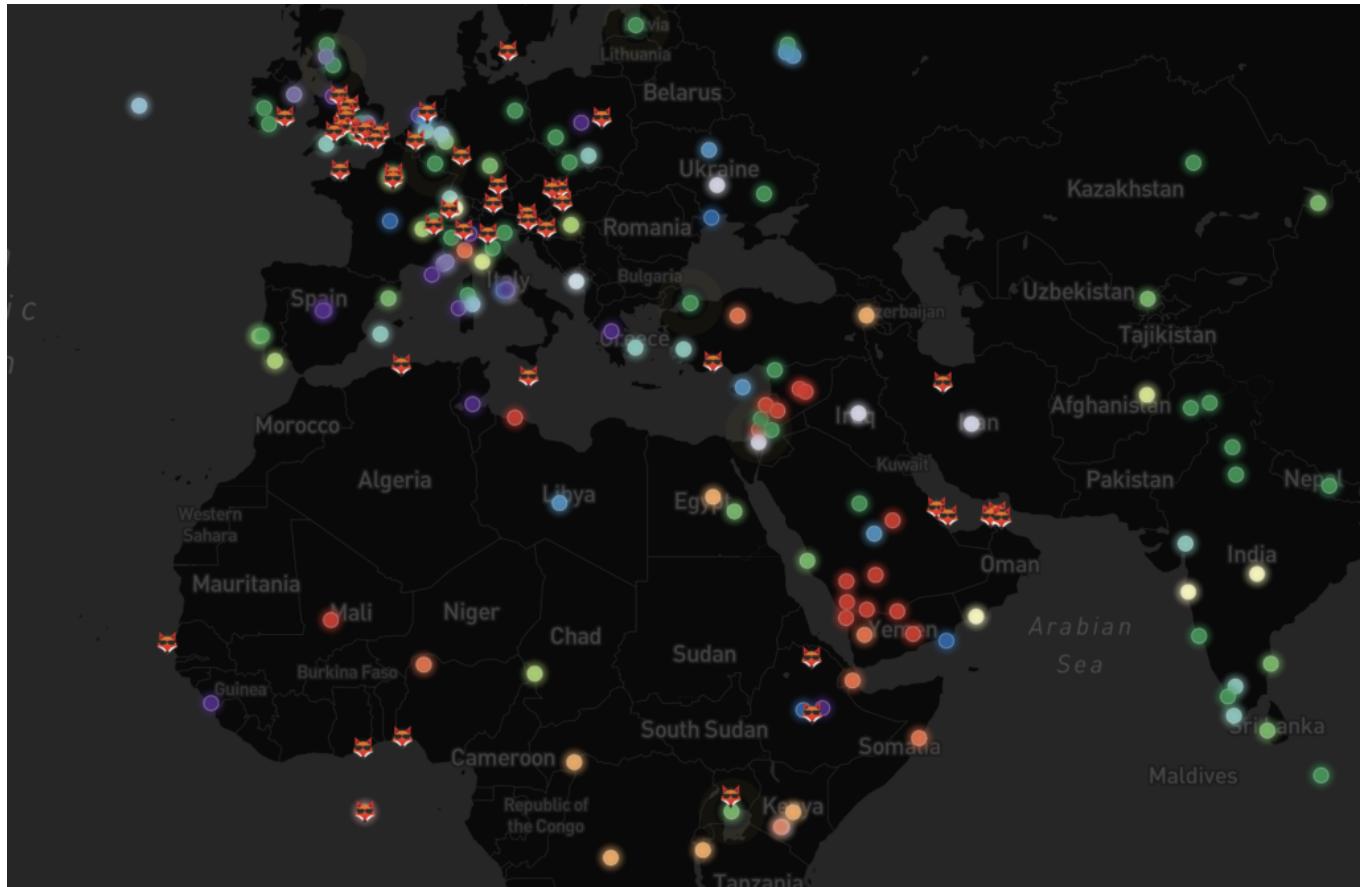


We'll keep this page updated with the latest situation on the Ethiopian ATC strike. Reports that we have received so far are as follows:

- Controllers in adjacent ACC's are reporting lack of adherence to Letters of Agreement - seeing aircraft with 4 minutes instead of 10 minutes separation.
- RA reported by Kenya ATC between two airlines on Wednesday.
- Kenya and Sudan reported loss of separation and poor coordination and transfer of traffic at their FIR boundaries with Ethiopia.
- Retired and Management controllers, who appear to have never rated or validated in position, are also being used, though unqualified for Addis.

We were first alerted to this issue by **a Fox**. Many of you know that we are Fixing Notams. The lack of Notams in this situation, is an exceptionally clear example of point 1 in the "Why" of the Notam Problem. Sometimes, we can't trust the state to tell the truth. And this is a clear example.

Thankfully, our network of Foxes - undercover ATCO's, pilots, and dispatchers - is growing, and reporting on things just like this, so that we can tell you what's really going on. Keep reporting.



Further reading

- Tell us anything additional we should know - news@ops.group
- Monitor #ops-alerts in your member Dashboard, and Slack.
- Contact the author: Mark Zee.

International Bulletin: Winter is Coming, Updated Canada Requirements

Opsgroup Team
26 July, 2022

INTERNATIONAL BULLETIN

ISSUED BY FLIGHT SERVICE BUREAU

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Winter is coming 09NOV With the clocks changing, it's a reminder that we're not far away from the snowstorms, deicing delays, cancelled flights, airport shutdowns, and those big invoices for de-icing fluid. Our new author Frank Young has an article.

Updated Canada requirements 09NOV From tomorrow, November 10, an eTA is now mandatory for flights to Canada (for most people), and there's an update to flying to Canada with a previous conviction. Read the article.

BIKF/Keflavik Long a destination for flight certification testing (because it's cold and windy), will not accept test flights until February next year, thanks to runway renovation work.

ZZZZ/Worldwide Last week we ran a story about the new ICAO SID/STAR phraseologies. In short, some countries are implementing, and others aren't. We're going to make a list of who's doing what, so that you as an operator or pilot will have some idea. Can you help us? What is your country doing? Tell us at bulletin@fsbureau.org.

LTBA/Istanbul At about 0100 local time on 6 November, two people on a motorcycle opened fire outside Istanbul Ataturk International Airport, prompting a temporary closure. Reports indicate that authorities apprehended both suspects and did not find additional weapons or explosives on their persons. Officials briefly placed the airport on lockdown but reopened the facility at about 0130. The incident reportedly did not affect flights, and the gunfire harmed no civilians or police officers.

CZZZ/NAT Region The FAA has recently determined that time estimates provided by pilots in oceanic CTAs are less accurate than expected, particularly when adverse weather causes pilots to deviate from the planned course. These inaccurate estimates can compromise the separation of aircraft. Have a read.

YMM/Melbourne Be aware of recent hoax ATC calls. Someone with a handheld radio has been making "go-around" transmissions on the Tower frequency, and at least one aircraft has responded. Airservices says there have been 15 such transmissions in the last few weeks.

CZZZ/Canada The NBAA has issued useful updated info for flying to Canada with previous convictions - Canada is known for refusing entry based on DUI charges. Today, November 9, is also the last day that you can enter Canada without an eTA.

PWAK/Wake Island – an ETOPS alternate – is closed on 11NOV for Veterans Day. They do say they will attend with 30 mins notice, so maybe two ETOPS circles are required for that day. Check other US ETOPS alternates on this date also.

UCZZ/Kyrgyzstan Since 4 November, if you're staying for longer than 5 days, you must register with the local authorities.

PKMJ/Majuro is downgraded to Cat 6 until November 23, which may affect some operators using this as an ETOPS alt.

EGNX/East Midlands airport has some weekend closures for the next six weeks.

VIZZ/India announced on 8 November that 500 and 1,000 rupee banknotes will cease to be legal tender as of 0000 local on 9 November 2016.

EVLA/Liepaja (one of Latvia's three international airports) is now closed to all operations. They say they will be open again in Spring 2017. Fingers crossed.

LAZZ/Albania has been experiencing heavy rains, high winds and flooding throughout the country, causing road blockages, school closures, and disruptions in ferry services. The army has been mobilized for rescue and relief operations.

LFLL/Lyon If you've been using LFLL as an alternate at weekends, you'll have to cut that out from December 10th, they don't want weekend diversions of non-sched flights.

EGKK/Gatwick has advised of a new series of rail strikes that will run through to January next year.

MHTG/Central America FIR reminds operators that a **CENAMER notification** by AFTN is required for all flights planning to enter the airspace.

MTZZ/Haiti The US has published updated advice for Haiti: U.S. citizens are advised not to travel to the southern peninsula of Haiti, commonly referred to as the "southern claw." The U.S. Embassy has currently banned unofficial travel to the southern peninsula and allows official travel only after consultation with its security office. There is widespread devastation throughout the southern claw with the most affected areas on the western tip of the peninsula. Travelers can expect difficult travel conditions with roads made impassable by landslides, damaged roads, and bridge failures. There is also widespread damage to buildings and infrastructure, including gas stations and cell towers, loss of electricity, and shortages of food and potable water. U.S. citizens who choose to travel to the southern claw in spite of these risks should carry sufficient water, food, fuel, and medicine to last longer than their anticipated stay. The security environment around the southern claw is fluid and uncertain.

LFOB/Paris Beauvais is closed overnight from 2200 to 0600Z, for 14-25 November inclusive, due to stuff.

HAZZ/Ethiopia On November 8, the Command Post – the body tasked with implementing Ethiopia's state of emergency – lifted the restriction imposed on foreign diplomats, which restricted them from traveling more than 25 mi/40 km outside of Addis Ababa. The Command Post also lifted and revised several other state of emergency provisions; however, the changes are minor and are not likely to affect the current situation. The curfew and communication restrictions remain in place

NFTF/Tonga Fua'amoto (the main airport) has new operating hours – these are, in UTC: 1600 SUN TO 0530 MON, 1025 MON TO 0800 TUE, 1600 TUE TO 0530 WED, 1000 WED TO 0800 THU, 0900 THU TO 1200 THU, 1600 THU TO 0530 FRI, 1600 FRI TO 0800 SAT. They'll accept div traffic outside these hours, call +676 22 608 – but prefer no surprises on Sundays.

OMAA/Abu Dhabi will see heavy traffic for the Grand Prix on November 27, avoid if possible.

SBZZ/Brazil The office that processes Foreign Civil oversight and landing permits has updated hours of operation: Mon-Fri 1230Z-2230Z.

SBCT/Curitiba airport would like 4 hour PPR notice for non-scheduled flights, and request that you call them on 55-41-3381-1478 to arrange that.

SPJC/Lima, Peru has an upcoming APEC meeting 14-21 November, with a decent increase in traffic expected, and a few restrictions. They've also warned pilots to pay attention to radios and transponder codes to avoid them sending up the jets – good advice.

TVSV/ET Joshua Airport is closed due to flooding.

VECC/Kolkata Radio has a new HF frequency: 8861, with hours 1330Z-0130Z. Use this if 6556 or 10066 isn't working for you.

CZQX/Gander is going to auto-send you a "Confirm Assigned Route" message from 01DEC, on entry into their OCA – if you are FANS 1/A equipped. If you're not sure how to feel about that, read our previous article.

LCCC/Nicosia There's a good deal of mil activity – UN, and Russian – in the Cyprus region at the moment. Read the LCCC and surrounding FIR Notams carefully. Oh, and if you're not up to date on your Greek-Turkish FIR dispute, add LGGG and LTBB to that. As 2016 draws to a close, enough regional history has been published for an entire novel. This weeks Notam series covers the 1923 Lausanne Peace Treaty.

NZZC/New Zealand published a change to SID procedures today, and our brain hurts. We're not sure if this is related to the 10NOV ICAO SID/STAR changes, or .. something else. If you've got it deciphered, let us know. THE STANDARD INSTRUMENT DEPARTURE (SID) SPECIFIES IN BOTH DIAGRAMMATIC AND NARRATIVE FORM ANY OF THE FOLLOWING: THE DIRECTION OF TURN, HEADINGS, TRACK, DISTANCES, SIGNIFICANT POINTS AND ALTITUDE REQUIREMENTS. WHERE TRACKING TO OR FROM A NAVIGATION AID IS NOT POSSIBLE, DESIRED TRACKS ARE SHOWN AND DUE ALLOWANCE FOR WIND IS TO BE MADE. AIRCRAFT ARE TO CONTINUE CLIMBING THROUGHOUT THE SID UNLESS IN COMPLIANCE WITH PUBLISHED ATC MAINTAINS, DEPARTURE MINIMUM SAFE ALTITUDE (MSA) OR AS OTHERWISE INSTRUCTED. WHERE CONTINUOUS CLIMB TO THE END OF THE SID IS NOT REQUIRED A DEPARTURE MSA MAY BE DEPICTED ON THE RELEVANT CHART. THE DEPARTURE MSA REPRESENTS THE LOWEST ALTITUDE FOR OBSTACLE CLEARANCE ALONG THE ENTIRE DEPARTURE ROUTE (INCLUDING TRANSITIONS). IT REMAINS THE PILOT'S RESPONSIBILITY TO MEET SUBSEQUENT ENROUTE MSA/MINIMUM FLIGHT ALTITUDE (MFA)/MRA/MEA REQUIREMENTS APPLICABLE AFTER SID TERMINATION. DEPARTURE MINIMUM SAFE ALTITUDES DO NOT ENSURE CONTROLLED AIRSPACE CONTAINMENT.

OEZZ/Saudi Arabia has issued an extension of the policy that requires all aircraft with a destination in Yemen to first land in OEBH/Bisha – through to 08FEB next year. The only exceptions are the UN, Red Cross, and MSF.

VHHK/Hong Kong is going to move to a new ACC and ATC Tower towards the end of this month. There will be delays. The actual date hasn't yet been notified, we'll let you know when we hear.

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Midweek Briefing: Oceanic and Remote Procedures Update, Rome Airport Closed Friday

Opsgroup Team
26 July, 2022

**INTERNATIONAL
BULLETIN**

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Oceanic and remote procedures updated: 12OCT The FAA this week issued a significantly updated version of their **“Oceanic and Remote Airspace”** procedures document. There's a lot of good stuff here, even if you're not operating an N-reg. Take a look at the PDF.

Rome Airport to close Friday 12OCT A reminder that LIRA/Rome Ciampino will close fully from Friday, for two weeks, as a result of urgently required runway maintenance. You can use LIRF/Fiumicino instead, but with significant restrictions.

LLBG/Tel Aviv starts winter runway maintenance work on 01Nov until 17Nov – Runway 21 will become primary landing runway, associated restrictions, not available as alternate during this time – check AIC 3/16.

LOWI/Innsbruck starting December 14th, the airport will introduce parking restrictions for private flights every week from 1800Z Weds until 1800Z Sunday.

TXKF/Bermuda Tropical Storm Nicole is approaching, expect some disruption and check before using as an alternate over the next few days.

HAZZ/Ethiopia The Ethiopian government has declared a six month State of Emergency from 9 October 2016. While details of emergency arrangements are not formalised, measures to restrict communication, movement and political expression are expected. Carry identification, avoid all large gatherings and protests, monitor the media for details on the application of the State of Emergency and follow all instructions issued by local authorities.

SPIM/Lima radar will be off the air on Friday from 19-21Z for repairs, procedural control, expect enroute delays.

EGGX/Shanwick. An exercise to test to the Volcano eruption response is underway, you may see multiple references to an eruption in Iceland – it hasn't happened, it's just a test. Stand down. Katla is also back to code Green.

UZZZ/Russia Karymsky volcano in the Kamchatka peninsula is active with colour code Orange, check before operating.

OKAX/Kabul FIR continues to have comms issues in the north east portion of Afghanistan airspace, VHF comms are not working on 118.3 or 128.5. There are some "Nordo" procedures, refer to AIP ENR 1.6-1.

MUFH/Havana has a couple of new entry points to the FIR – FUNDI and IKBIX – but they're not for use yet, so don't.

OPRN/Islamabad If operating to OPRN, be aware that on Saturdays and Mondays ATC will be practising non-radar procedural approach from 0500-0900Z until the end of the year.

SPJC/Lima has overnight parking restrictions from 14-21NOV, check with Airport company or handler prior to operating.

FZZZ/Democratic Republic of the Congo: the security picture is uncertain following recent political protests and there have been calls for further protests in Kinshasa, including on 19 October; you should follow travel advice and monitor local media for updates

SPZO/Cusco will not allow overnight parking from 10-20OCT.

FOZZ/Gabon Following the results of recent elections in Gabon, further strikes or demonstrations could occur in the capital Libreville and in Port Gentil. Avoid demonstrations, large crowds and rallies as they may turn violent.

UAZZ/Kyrgyz Republic Multiple embassies located in Bishkek have issued warnings to their citizens of an increased threat of a terrorist attack in the Kyrgyz Republic, possibly involving kidnapping and hostage taking, against Kyrgyz authorities and foreign diplomats during October 2016.

TQPF/Anguilla has introduced a ban on visitors from Guinea, Liberia and Sierra Leone, with a view to mitigating Ebola risk. Anyone who has been to those three countries in the last 21 days will not be allowed to enter.

VTSP/Phuket is suffering from ramp congestion, and will not allow non-scheduled flights to stay overnight until the end of the year.

WSSS/Singapore Changi has a couple of closures on 18 and 19 OCT due to a military exercise, check local Notams.

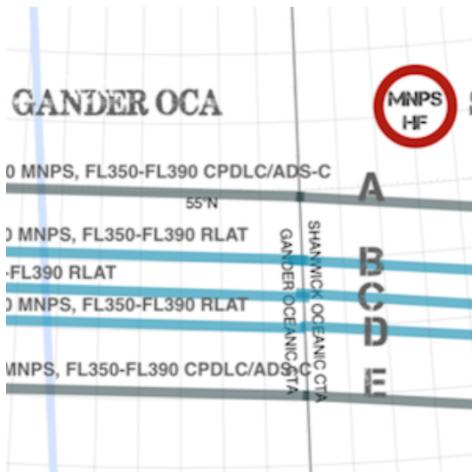
ZUUU/Chengdu has a new speed restriction inbound – fly 183 knots from IAF to IF, then 160 knots to 4nm. Notam U2748/16.

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Midweek Briefing: NAT changes postponed, Matthew Airport Update

Opsgroup Team
26 July, 2022

INTERNATIONAL BULLETIN	ISSUED BY FLIGHT SERVICE BUREAU
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NAT changes postponed 05OCT Phase 2 of Reduced Separation on the North Atlantic NAT Tracks will not go ahead as planned, slowing down the rate of change in the NAT region. Read the article.

Matthew: Airport Update 05OCT The next 24 hours will dictate the impact that Hurricane Matthew will have on Florida, as it leaves Cuba and begins to track north through the Bahamas. Airports Update: for Haiti, MTPP/Port-au-Prince ... Read the article.

DGAA/Accra, Ghana has a radar outage until Oct 19th in the southern area.

EGKK/London Gatwick has a Runway Occupancy Trial starting on 08OCT, all medium and large aircraft (A319 upwards) should plan to vacate at FR. Smaller aircraft vacate at E.

ENGM/Oslo has a fueler strike - plan to carry return fuel to avoid issues, until 10OCT at least.

OAZZ/Afghanistan Security reminder from Kabul: serious threats to safety and security exist in the city of Kabul and throughout Afghanistan. The threat of kidnapping is high. The potential also exists for protests to occur in Afghan cities at short notice. Militant groups usually plan attacks against locations and individuals with potential American connections, including: Afghan and U.S. government facilities, foreign embassies, military installations, commercial entities, non-governmental organization offices, restaurants, hotels, airports, and educational centers. Travel to all areas of Afghanistan remains unsafe due to the ongoing risk of kidnapping, hostage taking, military combat operations, landmines, banditry, armed rivalry between political and tribal groups, militant attacks, direct and indirect fire, suicide bombings, and insurgent attacks, including attacks using vehicle-borne or other improvised explosive devices.

MYZZ/Bahamas all Airports closed due to Hurricane Matthew with effect today until 1900Z on 07OCT.

YMHB/Hobart is extending the 12/30 runway, see AIC H30/16 for impact information.

FEFF/Bangui has an overnight airport curfew from 2200-0500Z until the end of the year.

DIAP/Ivory Coast It's now possible to apply for a visa online; after registering and paying online, you can collect the visa on arrival at Abidjan airport.

LTZZ/Turkey The state of emergency will officially be extended until January 2017. The announcement came after a Cabinet meeting; President Recep Tayyip Erdogan has also supported the extension. The state of emergency was put in place on 20 July following the 15 July attempted coup.

Typhoon Chaba While many eyes are on Hurricane Matthew, on the other side of the world Chaba is tracking north towards Japan after strongly impacting South Korea, however the system is weakening.

BIZZ/Iceland Volcano Katla downgraded to colour code Green, after last weeks concerns of elevated activity.

HAAB/Addis Ababa There are reports of anti-government protests taking place on the outskirts of Addis Ababa on Oct 4th. Unconfirmed reports indicate that protesters are attacking government property in the Akaki, Alem Gena, Burayu, Sebeta, Keta and Ayer Tena areas and that police officers have been deployed to the affected locations. Meanwhile, in the city center, shops have reportedly closed and there have been isolated reports of gunfire. Transportation to and from the affected areas has shut down.

LGZZ/Greece Greek trade unions have announced strike action that is expected to cause disruption to a number of domestic flights between 4 October and 8 October.

FVZZ/Zimbabwe The UNIVISA system has been suspended. If travelling between Zimbabwe and Zambia more than once either way, you should get a double entry visa; due to the ongoing cash liquidity crisis, authorities have announced a series of measures designed to stem the flow of US dollars out of the country; take sufficient cash to cover your needs for the duration of your travel.

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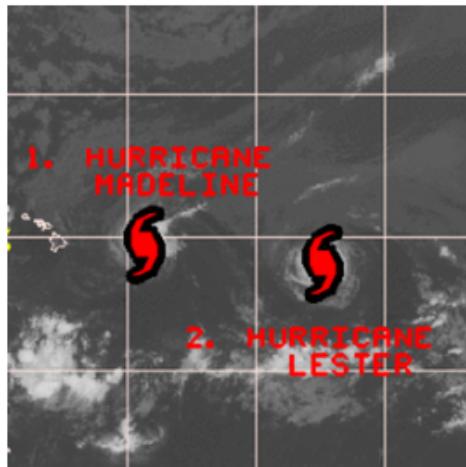
Midweek Briefing: End of Canada Leniency, Two hurricanes inbound Hawaii

Opsgroup Team
26 July, 2022

INTERNATIONAL BULLETIN

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End of Canada Leniency 31AUG Earlier this year Canada introduced a requirement for an eTA - like the US Esta. For a while, it was OK to travel without one. **That's ending in September** ... Read the article

Two hurricanes inbound Hawaii 31AUG Madeline is first, followed by Lester - both are tracking west towards Hawaii with landfall expected - should it occur - on Wednesday and Thursday. Read the article

LTCC/Diyarbakir, Turkey Kurdish militants fired rockets at Diyarbakir Airport in southeastern Turkey. The militants reportedly targeted a security check-point outside the airport lounge. All personnel were taken inside terminal building for safety reasons. No flights were disrupted, and there were no reports of casualties.

EHAM/Amsterdam It's that time of year again, watch out for the migrating geese in Amsterdam at sunrise and sunset. They operate between 300 and 700ft without transponder.

VVVV/Hanoi FIR If you're cutting a line through the Hanoi FIR on the W1 airway, you'll be held down at FL290 unless you have RNAV5. ATC says so.

DNZZ/Nigeria Members of aviation unions staged rallies at four major airports in Nigeria to protest the planned concession of the facilities to private investors. Protests occurred at Abuja (DNAA/ABV), Kano (DNKN/KAN), Lagos (DNMM/LOS) and Port Harcourt. So far, the protests have not disrupted ops. Lagos has been suffering from some power outages lately as well.

SOCA/Cayenne, French Guyana has staff shortages, and from September 1st will not accept any diversions unless in an emergency. Do not plan SOCA as an enroute alternate. If inbound, with an ETA for SOCA 0200-1100Z, you need to call for an arrival slot. If you need it, ATC phone is +594 594 35 9372 or 9302.

OIZZ/Iran has approved the use of its airbases by Russian fighter aircraft; Russia has notified intention to launch missiles in the direction of Syria from the Caspian Sea fleet. The Russian Air Force has deployed six Tu-23M3 BACKFIRE bomber aircraft and multiple Su-34 FULLBACK strike fighter jets to Hamedan Air Base (OIHS/NUJ).

ORBB/Baghdad FIR/Iraq The Iraqi government has given permission to the Russian MoD to use its airspace in support of air operations in Syria. Russian media outlets are also reporting the Russian MoD

has requested use of the FIR for the “passage of cruise missiles” as well, highlighting the potential for such activity to occur in the coming days from the airspace over the Caspian Sea.

LTZZ/Turkey Russia has lifted its ban on charter flights to Turkey.

HAZZ/Ethiopia Reports indicate that flights to HAGN/Gondar (GDQ) and HABD/Bahir Dar (BJR) have been indefinitely suspended. The suspension of flights comes amid ongoing unrest in Gondar and Bahir Dar, as well as in other cities in the Amhara and Oromia regions, over the marginalization of ethnic groups by the Tigray-dominated Ethiopian People’s Democratic Front (EPRDF) regime. Ethiopian government officials have not commented on the cancellation of flights to those cities or international flights to Addis Ababa, which has not been largely affected by the unabated unrest occurring in outlying regions.

WSSS/Singapore air quality has deteriorated to a Pollution Standards Index (PSI) of 105, due to the cross-border haze from Indonesian slash-and-burn fires. The agricultural practice, during which farmers burn a patch of land in order to clear land for new crops, creates haze, which then drifts through the region. Experts believe the level of pollution — which in 2015 cost the region more than 700 million US dollars in damage and severely disrupted the aviation sector — will be lower in 2016 due to a rainy dry season.

NFNA/Suva, Fiji is closed during September for runway repairs. Available with 30 mins PN in an emergency. Call them on 9906102.

SUEO/Montevideo Air Traffic Controllers strike until end of September, closures and departure restrictions in place. Info is sketchy, got some updates? Let us know ... bulletin@fsbureau.org.

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