

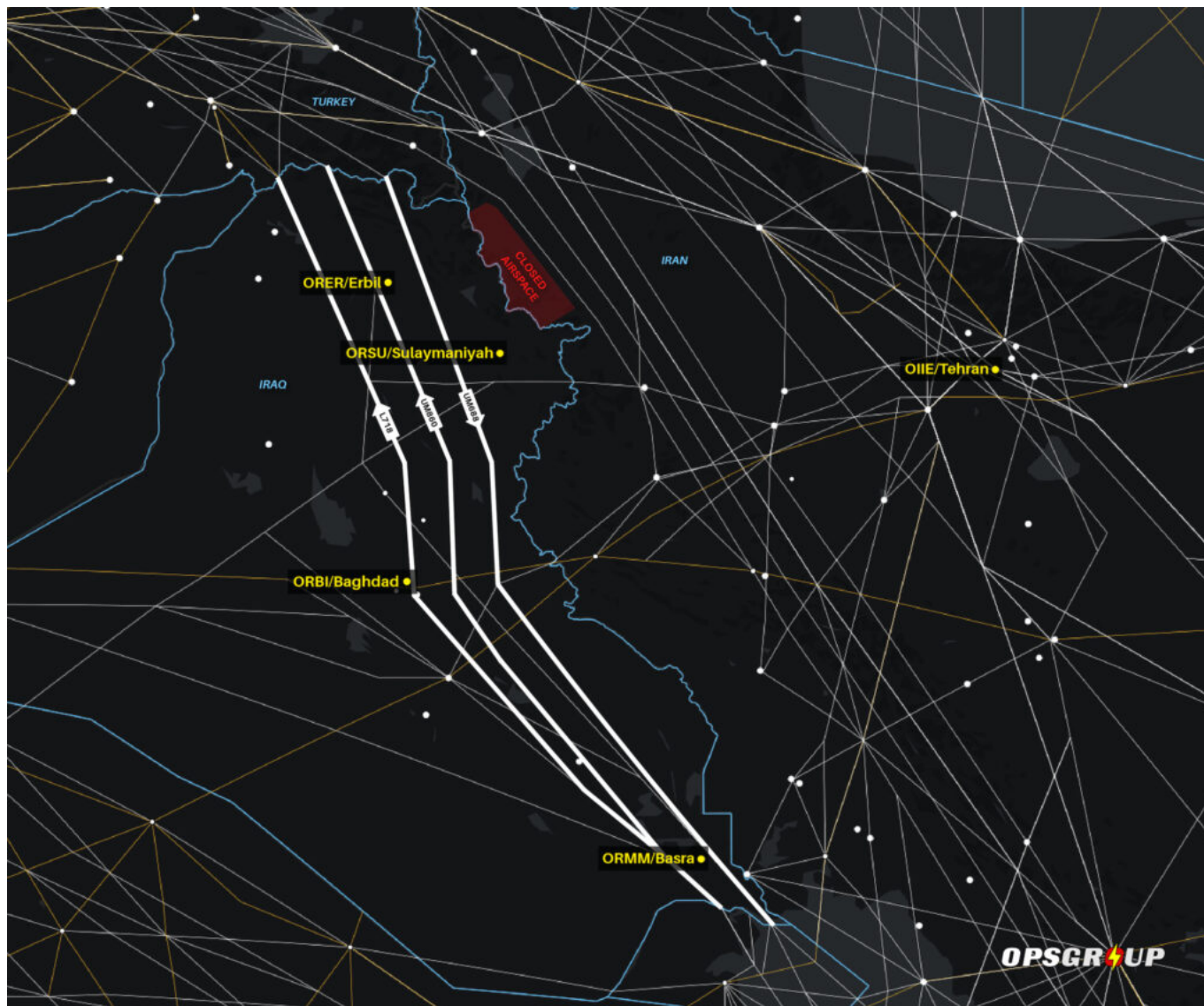
Iraq Airspace Risk For Overflights

David Mumford
30 September, 2022



International operators overflying Iraq should take note of recent events impacting airspace risk in the region.

Iran have closed a section of airspace in the north of the country along the border with Iraq, and are potentially using the area to launch **missile and drone attacks at targets near ORER/Erbil airport, in close proximity to heavily flown international air routes.**



[Click for hi-res version.](#)

Iranian attacks

Iran are warning their own operators against flying in Iraqi airspace, and especially at Erbil airport, which came under direct fire from Iranian surface-to-surface ballistic missiles in Feb 2021 and again in March 2022. Iran launched further attacks this week on an area 35 miles east of Erbil, reportedly targeting a Kurdish opposition group in the region – an armed opposition force that is banned in Iran.

Here is the warning issued by Iran:

OIIX A2959/22 - AIRSPACE SAFETY AND SECURITY WARNING ISSUED BY IRAN CAA IN RESPONSE TO THE HAZARDOUS SITUATION WITHIN THE TERRITORY AND AIRSPACE OF BAGHDAD FIR (ORBB),
IRANIAN REGISTERED AIR OPERATORS ARE ADVISED TO TAKE ALL POTENTIAL RISKS INTO ACCOUNT IN RISK ASSESSMENT AND FLT PLANNING DECISIONS WHEN OPERATING AT AIRPORTS WHICH ARE LOCATED WITHIN BAGHDAD FIR (ORBB) ESPECIALLY ERBIL INTERNATIONAL AIRPORT (ORER), DUE TO THE RISK POSED BY MILITANT ACTIVITY AND LIMITED RISK MITIGATION CAPABILITIES IN IRAQ. 28 SEP 17:35

Iraq airspace risk

Several countries warn against overflights of both Iran and Iraq. The US FAA bans N-reg aircraft from the OIIX/Tehran FIR, and says that overflights of the ORBB/Baghdad FIR must be at FL320 or above – and just last week they extended these rules to 2024.

But the Iranian attacks in northern Iraq raise questions and concerns about overflights of Iraq. Airways UM688 (southbound) and UM860 (northbound) through Iraq are popular routes for international flights between Europe and the Middle East. **Is it really safe to fly these routes now, even above FL320?**

It's worth digging into the US FAA guidance on Iraq a bit deeper to get a clearer picture of exactly what the risk is here. SFAR 77 has the info, and this is (some of) what it says:

- *Iranian-aligned militia groups (IAMGs) have access to UAS and anti-aircraft capable weapons systems which present inadvertent risks to the safety of U.S. civil aviation operations in the ORBB/Baghdad FIR at altitudes below FL320 and at potentially targeted airports.*
- *IAMGs likely lack the ability to conduct effective target identification and airspace de-confliction, increasing the risk of an accidental shoot down of a civil aircraft due to misidentification or misperception.*
- *In addition, the FAA remains concerned about cross-border military activity. Both Iran and Turkey have previously conducted various no-notice, cross-border operations striking targets in northern Iraq using a variety of weapons, including short-range ballistic missiles, rockets, and weaponized UAS. In a recent example, on March 12, 2022, up to twelve Fateh-110 surface-to-surface ballistic missiles launched from western Iran and impacted near the construction site of the new U.S. consulate in Erbil, Iraq, and Erbil International airport (ORER). While this attack did not pose a direct threat to the airport, the missile trajectories possibly presented an inadvertent risk to aircraft in flight that might have been operating at low altitude in the vicinity of Erbil International airport (ORER) during the time of the attack.*
- *In general, unannounced third-party cross-border operations in the Baghdad FIR (ORBB) present a low altitude safety-of-flight risk for aircraft flying in the vicinity of the targeted location(s) and for aircraft on the ground at airports co-located with, or in close proximity to, the intended targets. These activities also pose an airspace de-confliction challenge.*

Should I avoid overflying Iraq?

For most Europe-Middle East flights, **the route through Saudi-Egypt is a safer option than Iraq.**

Even routing through Iran is probably a safer bet at the moment (although we don't advise that either!). We received a report from an OPSGROUP member this week who routed through Iran:

"I would estimate our flights through Iran vs Iraq are taking (approximately) 10-15 mins longer, but at significantly less risk. We only consider airports that are served by either Emirates or FlyDubai as suitable for diversion, but only as a last resort, such as OIIE, OISS and OIFM. The company we use for support and handling if such diversions are required is Hadid. They are excellent for sorting any problems/permits in the Middle East."

Here's the Iraq risk, as we see it:

- Potential of **intentional targeting** by terrorist organisations who possess portable anti-aircraft weaponry.
- Civil aircraft may be **misidentified** by the air defence systems of both local and foreign military who are active in the country.
- Iraq is politically unstable, and **security and safety on the ground** is unpredictable and likely to be high risk.
- The US have pulled their troops out and so there is **little protection at the major airports**.
- ORBI/Baghdad and ORER/Erbil airports are **common target for rocket attacks**. Militia and terrorist groups are active in these areas.

Want a full briefing?

Just click [here](#). Safeairspace.net is our conflict zone and risk database run by OPSGROUP. We continually assess the risk to operators the world over. It presents that information in a way that will always be simple, clear, and free. You can also add your email to our new fortnightly airspace risk briefing that contains only what you need to know, delivered every second Monday.

Iraq Overflights: A Recent Report

OPSGROUP Team
30 September, 2022



The US FAA recently amended their long standing Notam prohibiting US Operators from entering the ORBB/Baghdad FIR. The KICZ Notam A0036/21 used to bar flights at all levels, but now US operators are allowed to overfly Iraq provided they **remain at or above FL320**, as per the SFAR.

So, what can you expect if you elect to use this newly available routing, and what risks remain?

You can still expect risk

Iraq remains a political volatile country and the **security there is unpredictable**. Terrorist groups remains active, and have access to **anti-aircraft weaponry**.

What should you do?

- Continue to monitor alerts and sites such as Safeairspace to confirm what the current situation is.
- Flights should **remain above FL320** to avoid risk from MANPADS.
- Do not use Iraqi airports as **diversion options** unless it is an absolutely critical emergency situation.

All going well, here's what expect

Plan to use the **UL602, UM860 and UM688 airways**. These are major airways utilised by traffic routing between Europe and the Middle East. Iraq offers the slightly shorter route compared to Iran (and Iran remains out of bounds for US operators).

The routings to plan are as follows:

Northbound:

- TASMI DCT SEPTU DCT ROXOP UM860 NINVA
- TASMI UL602 ALPET L718 DEBNI DCT EMIDO L718 KABAN (all flights need to be at or above FL280 before DEBNI to stay clear of restricted area OR/R 401).

Southbound:

- TASMI RATVO UM699 SIDAD (via airway)
- RATVO DCT SISIN UM688 SIDAD (DCT - subject to availability)

Kuwait are good at handing you over, and Bahrain and the UAE airspace is all well managed.

ATC standards are good, and standard VHF throughout, with radar. It is worth keeping your headsets on though because a good listening watch is required at all times in this region.

Routing south you might find yourself **slowed down or shifted levels**, or given early descents, as they manage the flow into some of the major hubs in the Middle East. If you fly into the Bahrain FIR (via RABAP or LONOS) be aware there are high levels of congestion here, particularly military traffic.

Any other considerations?

Iraq borders **Syria** which is an absolute no go area. There is a **large prohibited area** in the northwest quadrant of Iraqi airspace along the Syrian border. If you are looking to use LCLK/Larnaca as a diversion airport, consider how you will manage routing around Syria.

The main southerly airway lies extremely **close to the Iranian border**. The border is not a straight line so consider whether you might accidentally cross it if detouring for weather, or if offered a direct routing which cuts the corner.

You do occasionally get some **major storms** in this region. When they are there, they aim to be impressive!

GPS jamming is a problem, usually in the northern region from around 40nm north of the border and

through about one third of the airspace. Of course, if you have INS and/or VOR/DME RNAV etc then you'll be ok, but if you're using something like Garmin avionics which rely solely on GPS then not so much. UAE airspace requires at least one GPS too, so update ATC if you need support!

What if I have to land there?

Security and safety on the ground is unknown and likely to be high risk.

The US have pulled their troops out and so there is little protection at the major airports. Leaving the airports will result in possible security issues and is unadvisable. While the airports are generally well maintained and serve some major international airlines, **conditions are challenging** particularly in the summer when temperatures regularly exceed 40°C. **Terrain is also a consideration.**

Cultural and religious regulations must be taken into account, and **political conflict with certain nationalities** should be considered. Alcohol and drugs are banned with severe penalties.

ORBI/Baghdad is a common target for rocket attacks, particularly because of its proximity to an air base. Rebels and terrorists are active in this area. The facilities and runways are decent with two ILS approaches and two runways of 4000m and 3301m. **This should only be used in absolute emergencies.**

ORMM/Basra is the second largest airport in Iraq and has a good length runway and an ILS. **This should only be used in absolute emergencies.**

ORER/Erbil offers a very decent length runway and facilities. The main area of issue is over the hills to the north of the airport. **This is the only airport which may be recommended for use as a possible en-route diversion.**

US FAA allows Iraqi overflights

Chris Shieff

30 September, 2022



On October 22, the US FAA cancelled a long standing Notam that barred US operators from entering the ORBB/Baghdad FIR at all levels (KICZ A0036/21).

The standard SFAR for Iraq now applies, which allows overflights **at or above FL320**. *But does that mean it's safe?*

Iraq remains an active conflict zone which exposes aviation to high levels of risk. So, let's take a look at the dangers of operating in the Baghdad FIR and why those risks should continue to be carefully considered at all levels before you decide to overfly.

Hang on, why was there both a SFAR and a Notam in the first place?

The political and security environment in Iraq is unpredictable. Local and foreign military continue to fight against an armed insurgency there. Things can change quickly.

To allow the FAA more flexibility with the rules, they published the Notam (now cancelled) with extra restrictions over and above the SFAR.

The idea was that they could continually assess the threat to US aircraft in Iraqi airspace, and easily reduce restrictions again to allow some operations to continue through this air corridor. This is where we are now.

But the overflight risk remains.

The primary risk to overflying aircraft hasn't changed. Terrorist groups are still very much active in Iraq and may **intentionally target civil aircraft with anti-aircraft weaponry**. They are known to have conventional man portable air defence systems (MANPADS) – the ones you can move around and launch from your shoulder. These were previously assessed to reach aircraft as high as FL260, but the danger zone was later increased by the FAA to FL320.

Why?

Because these groups are being funded and armed by other political interests in the Middle East with increasingly sophisticated weapons.

Case in point. On October 21, news broke that militia in Iraq may have access to a new type high tech anti-aircraft missile. Intelligence suggests that it is 'loitering', or in other words that it hangs around for a while before selecting a target. While such a weapon hasn't been used yet in Iraq, the evidence that it is there is credible.

The same militia also have a long track record of **targeting US military interests at airports** such as ORBI/Baghdad with rockets. We have reported on such attacks more than a dozen times already this year alone.

Don't forget about the military - at all levels.

Iraq is an **active conflict zone**, so foreign and local military have their own air defences too.

The US military have systems that can reach higher than anyone can realistically fly, while the Iraqi military have surface-to-air missiles that can target aircraft as high as FL490.

In the last 12 months, there has been an increase in the use of weaponised drones by militant groups. Which means that if these air defence systems are used to target them, it may increase the risk that civil aircraft are misidentified or mis-targeted – or in other words, being in the wrong place at the wrong time.

Other recent events.

The *ability* is clear, but what about the *intent*?

It's important to remember that airspace risk can change quickly, based on what is happening on the ground. (Not just in Iraq, but everywhere.)

And in Iraq, there are two things to be aware of in recent times...

- The first is that Iraq is still politically unstable. There was a big election on Oct 10 which has since been disputed. Militant groups found themselves on the wrong side of the result, which may imply an increasing desire to make some kind of statement.
- The second is that the US Government has committed to withdraw US troops from Iraq by the end of 2021. As that time draws closer, political tensions are likely to rise. If anything, recent events in Afghanistan may serve as a warning of things to come.

I still want to overfly. Are some areas safer than others?

Based on active airspace warnings alone, authorities in France and the UK agree that eastern airways **UL602** (between TAMSJ and ALPET), **UM860** and **UM688** are generally acceptable – but as always, it is up to operators to carry out their own risk assessments. The US FAA regs don't define any specific region and consider the **risk present below FL320 throughout the entire Baghdad FIR**.

Want a full briefing?

Just click here. **Safeairspace.net** is our conflict zone and risk database run by OPSGROUP. We continually assess the risk to operators the world over. It presents that information in a way that will always be simple, clear, and free. You can also add your email to our new fortnightly **airspace risk briefing** that contains only what you need to know, delivered every second Monday.

Iran and Iraq airspace restrictions

David Mumford
30 September, 2022



Please note: This article refers to the airspace warnings for Iran and Iraq following the shootdown of UIA flight 752 in Tehran in Jan 2020. We are keeping the article here for reference purposes only. For updated airspace warnings, check safeairspace.net

Following the events of Jan 8, when an Iranian missile strike on US military bases in Iraq was quickly followed by the shooting down of Ukraine Int Airlines flight 752 in Tehran by the Iranian Armed Forces, multiple western countries issued warnings to **avoid the airspace of Iraq and Iran completely**.

But in the weeks that followed, some of these countries issued updated advice, **allowing overflights to resume at the higher flight levels**.

Here's a summary of what the main countries/agencies who regularly publish airspace warnings have said with regards to Iraq and Iran:

The US

As of Mar 12, the US prohibit all flights in the airspace of Iraq and Iran, but allow flights in the Persian Gulf and Gulf of Oman. Here are the details for each:

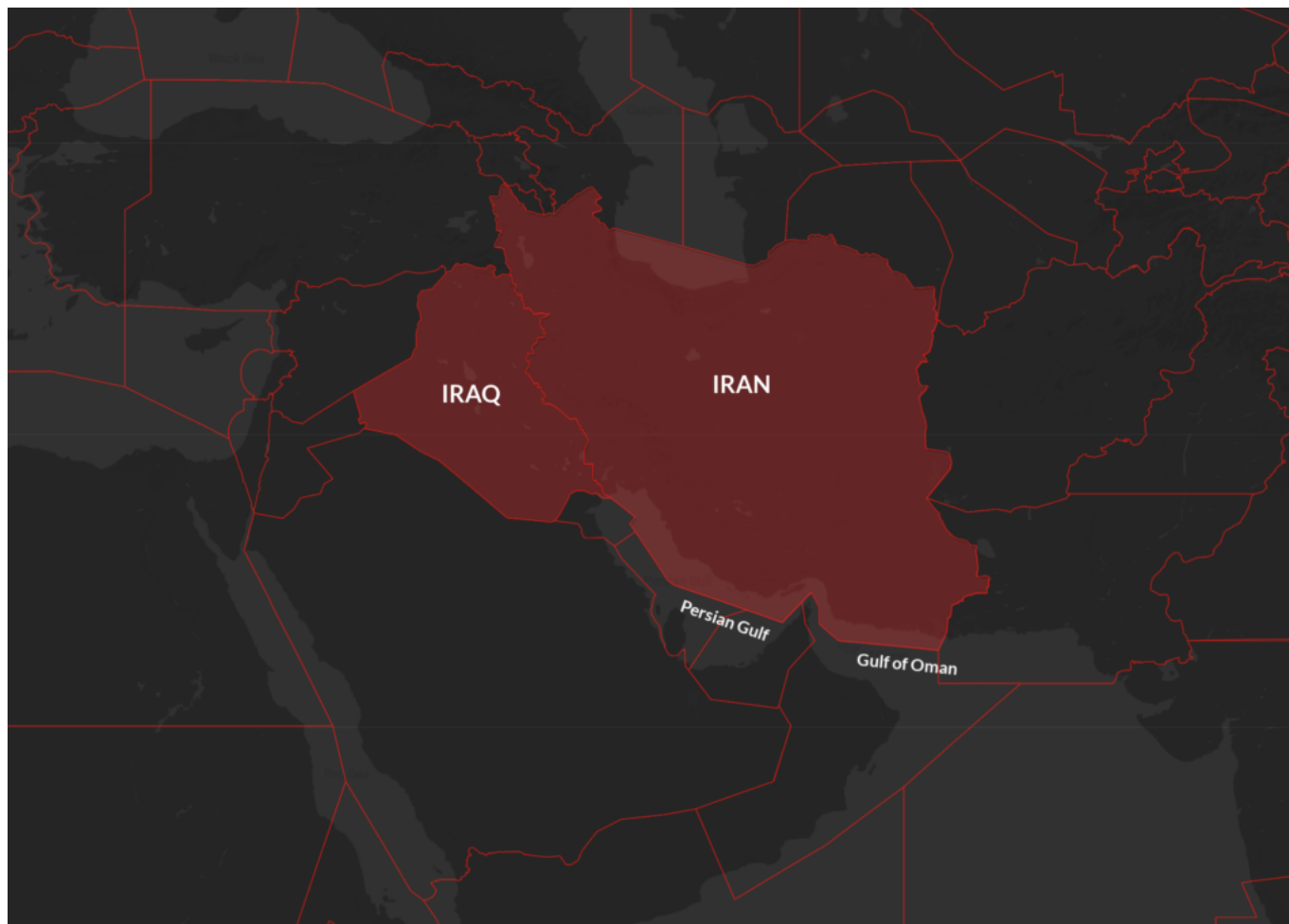
On Feb 27, the US loosened its restrictions on Iraq, issuing an updated Notam and Background Notice document which advised that US operators were now permitted to overfly Iraq at FL320 or above. They said there has been a de-escalation in military activity and diminishing political tensions in the region, but there was still a risk at the lower flight levels from armed militias who are likely responsible for multiple recent attacks on US armed forces in Iraq, as well as rocket attacks targeting the US Embassy and ORBI/Baghdad International Airport.

Then on Mar 12, the US issued an emergency order that once again banned US operators from overflying Iraq with immediate effect. This came after US warplanes hit militia weapons storage facilities in southern Iraq in a strike designed to destroy rockets like those fired at US troops earlier this week.

The US downgraded its airspace warning for the overwater airspace in the Persian Gulf and Gulf of Oman on Feb 17 – the new guidance now just advises caution in this region, and recommends to avoid the airways nearest to the OIIX/Tehran FIR whenever possible, to reduce the risk of miscalculation or misidentification by air defence systems. The crucial change with this new warning is that **overflights in**

this region are now permitted. So for US operators wanting to transit the OKAC/Kuwait, OBBD/Bahrain, OMAE/Emirates and OOMM/Muscat FIRs – you can now do so.

The US ban on the airspace of Iran is still in place – US operators are prohibited from entering the OIIX/Tehran FIR.



Germany

Germany just advises caution for both Iraq and Iran overflights – at no point since the events of Jan 8 have they issued outright bans on the airspace of these two countries.

France

France initially issued a Notam on Jan 9 advising operators to avoid the airspace of Iraq and Iran. Then on Feb 14, they changed their advice for Iran, saying that the only chunk of airspace which should be avoided is the western half of the country (everywhere west of 54 Degrees East longitude); they recommended that overflights of the eastern half should be at or above FL320. This guidance was then incorporated into AIC 14/20. The French Notam for Iraq lapsed on Feb 12, and was not renewed – therefore the French advice for Iraq has reverted back to that contained in AIC 14/20 which says that overflights should be at or above FL320, and only on certain airways.

The UK

The UK published Notams on Jan 9 prohibiting operators from entering the airspace of both Iraq and Iran. Then on Jan 17, they issued a new Notam for Iran, and cancelled the one for Iraq, advising operators to revert back to the guidance contained in the AIP ENR 1.1 (1.4.5). Bottom line, the UK advice for both countries is now this: do not overfly below 25,000ft AGL.

EASA

EASA published a notice on Jan 11 specifically warning operators against overflying Iraq and Iran. They said this should be taken as a precautionary measure, following the events of Jan 8. EASA don't normally issue

blanket warnings/recommendations like this. Then on Jan 29, they withdrew that advice, and reaffirmed the position previously stated in their Conflict Zone Information Bulletins (CZIB) – Iraq overflights should be avoided except on two specific airways (UM688 and UM860), and Iran overflights should be avoided below FL250.

Further discussion

- The **#FlightOps** channel on Slack is open for Iran/Iraq discussion
- Email team@ops.group with any intel or analysis you can share

Risk assessing Iran ops - the UIA 737 may have been shot down

Mark Zee

30 September, 2022



Special Update Thursday 09JAN: Members, please see either your email or this post in the Members forum, for a special briefing and update.

08JAN: Iran/Iraq Information page activated with latest information.

The cause of the crash of Ukraine International Airlines (UIA) AUI/PS752 on departure from Tehran is not yet determined, and given political circumstances, may not be clarified beyond reasonable doubt anytime soon.

Purely from the perspective of making a risk assessment for operations to Tehran, and Iran in general, however, **we would recommend the starting assumption to be that this was a shootdown event**, similar to MH17 – until there is clear evidence to the contrary.

Images seen by OPSGROUP, shown below, show obvious projectile holes in the fuselage and a wing section. Whether that projectile was an engine part, or a missile fragment is still conjecture, but in making a decision as to whether to operate to Iran, erring on the side of caution would dictate that you do not, until there is clear information as to the cause.

Obviously, there is also the wider regional risk as indicated through the US FAA Notams issued late Tuesday night. US operators are covered by these clear and specific Notams – do not operate to Iran, or Iraq, or operate in the Persian/Oman Gulf area.

Other operators are free to make their own judgement, but should note that a majority of non-US international carriers have elected to avoid both countries for the time being.

See also:

- OPSGROUP Article: FAA Bans Flights Over Iraq And Iran Following Missile Strike On US Base
- OPSGROUP Article: Germany publishes new concerns for Iraq overflights

Images from ISNA, Reuters; marking of projectile areas from JACDEC.





Germany publishes new concerns for Iraq overflights

Mark Zee

30 September, 2022



Late Monday evening, the German LBA published a **new warning for Iraq**, indicating areas of concern for overflying traffic, together with a new warning on ORBI/Baghdad Airport.

Notam B0007 of 2020 (issued Jan 6) replaces Notam 0002 (issued on Jan 2nd), and these are the routes that Germany now considers a potential risk for aircraft below FL260:

Airway UM860 NAMDI - NINVA

Airway UM688 RATVO - SOBIL

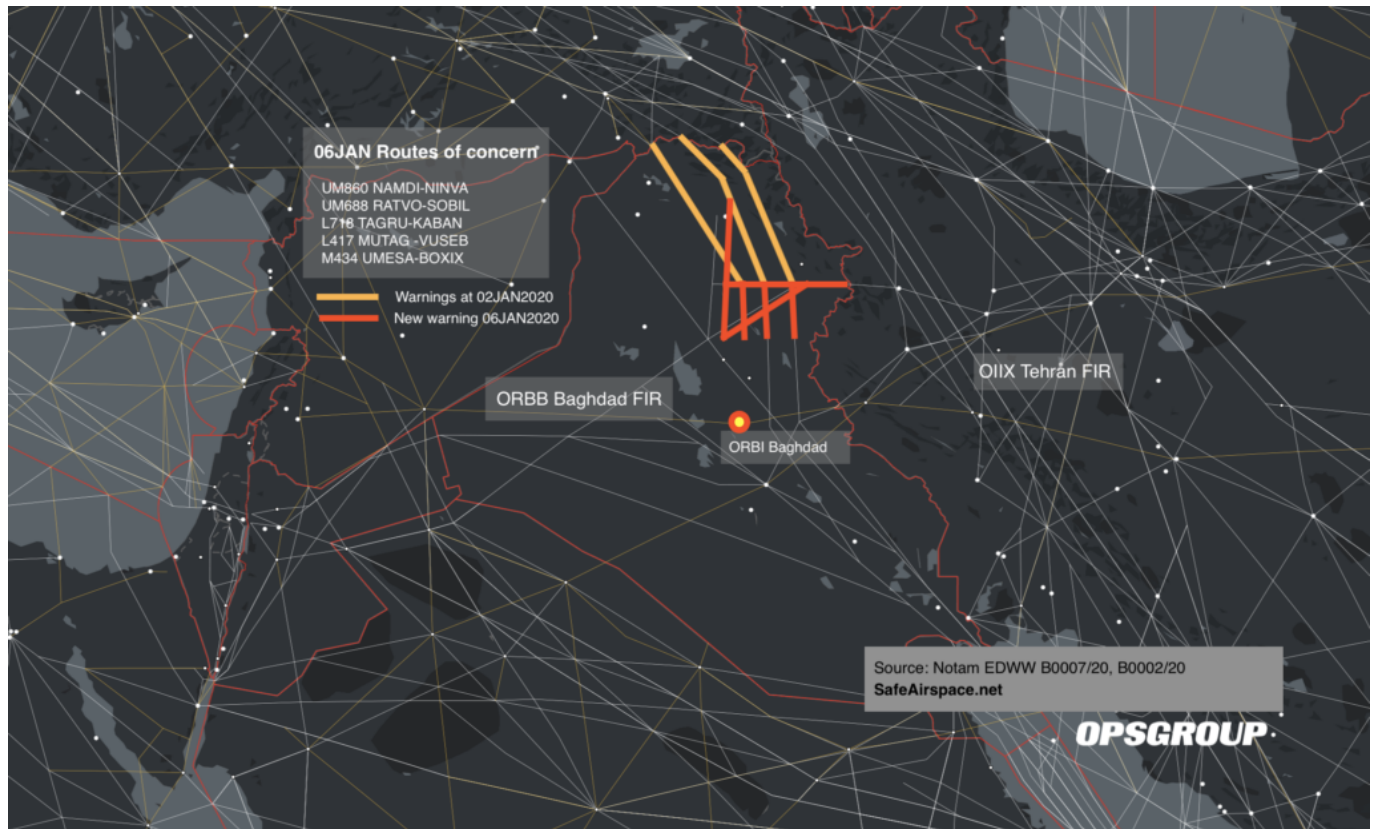
Airway L718 TAGRU - KABAN

Airway L417 MUTAG - VUSEB

Airway M434 UMESA - BOXIX

Airway R652 MUTAG - DAVAS

Seen on the map below, all these airways are in the north east of Iraq: the yellow lines are the warnings that existed on and prior to Jan 2nd, and the orange lines show the additional areas flagged in Mondays Notam.



Of the other primary states that issue airspace warnings – the UK, France, and the US – none have issued updated guidance yet this year.

There is no doubt that the events of Jan 3, 2019 at ORBI/Baghdad Airport have created an extremely tense situation between the US and Iran. The aviation security picture in the Middle East, already fragile and unstable, is now unpredictable. A response by Iran to the US airstrike of Jan 3rd seems possible.

Specific to the Baghdad Airport incident, it seems early reports of Katyusha rockets can be discounted, that it was an attack carried out on vehicles near the airport by US Apache Helicopters. Civil traffic resumed operations shortly after the attack with several departures operating ‘as normal’. Overflights continued during the attack.

As to the Iranian response, anything that looks like a US asset or ally could be a target – military or civil. US operators, at a minimum, should be avoiding the Tehran FIR, and considering security carefully when operating in other countries in the region, most notably Israel, Lebanon, and Kuwait – as a response may target airports in those countries or foreign aircraft. That said, it’s a guessing game right now, and predicting the specifics of a response is extremely difficult.

For full analysis, and a listing of all current warnings, see **Safe Airspace**.

Iraq ATC strike - update

Declan Selleck
30 September, 2022



At 0800 local this morning, Iraqi controllers returned to work. For the last few days, Iraqi ATC had been on strike for better pay, effectively closing the Baghdad FIR and intermittently Baghdad and Basra airports. An 80nm in trail requirement has been removed. Military controllers, pictured above, who had been running ORBI/Baghdad Airport have completed their duties.

Local ATC controllers tell us that the strike is over – they are running what they call ‘ops normal’ for two weeks, before they will/may strike again as negotiations continue. Inside word is that a number of local controllers have been fired, and Serco were providing most of the staff to cover the centre. Baghdad FIR Control Centre and Iraqi Airports are running normally – for now.

We are still expecting the FAA to remove the restriction for US operators using the Baghdad FIR, this is a separate issue. No further news on that just yet.

Baghdad FIR still reopening - but wait a little

Declan Selleck
30 September, 2022

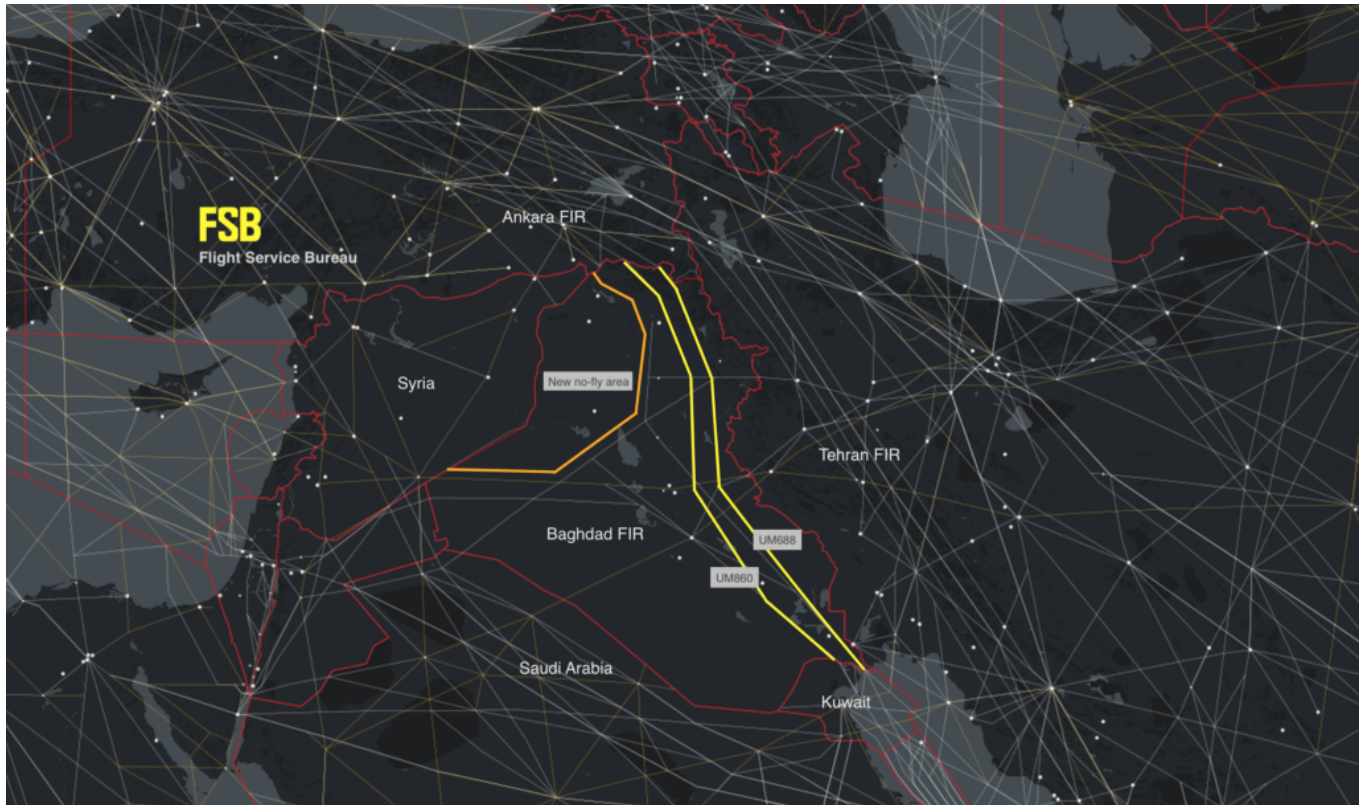


So, last week we told you that **Iraqi Airspace was about to re-open to international overflights**. It still is, though the bit where it was going to happen this week is no longer true.

The FAA were about to hit 'publish' on a Notam this past Monday, which would have enabled US airlines to start overflying Iraq again. The text of this Notam included:

- An amendment to the existing Iraq restriction
- **An authorisation for US airlines and operators to overfly Iraq at or above FL260**

But then, a military operation by Iraqi forces to take control of Kirkuk from the Kurds the same day, created concern as to overflight safety. **Kirkuk sits pretty much underneath the UM860 airway** on the map below.



So for now, do nothing and wait. It seems the situation is de-escalating, and we expect now that the Notam may be issued as early as next week.

Once that happens, we'd expect other countries to follow suit and allow overflights in the same way, meaning that these two airways will become busy again.

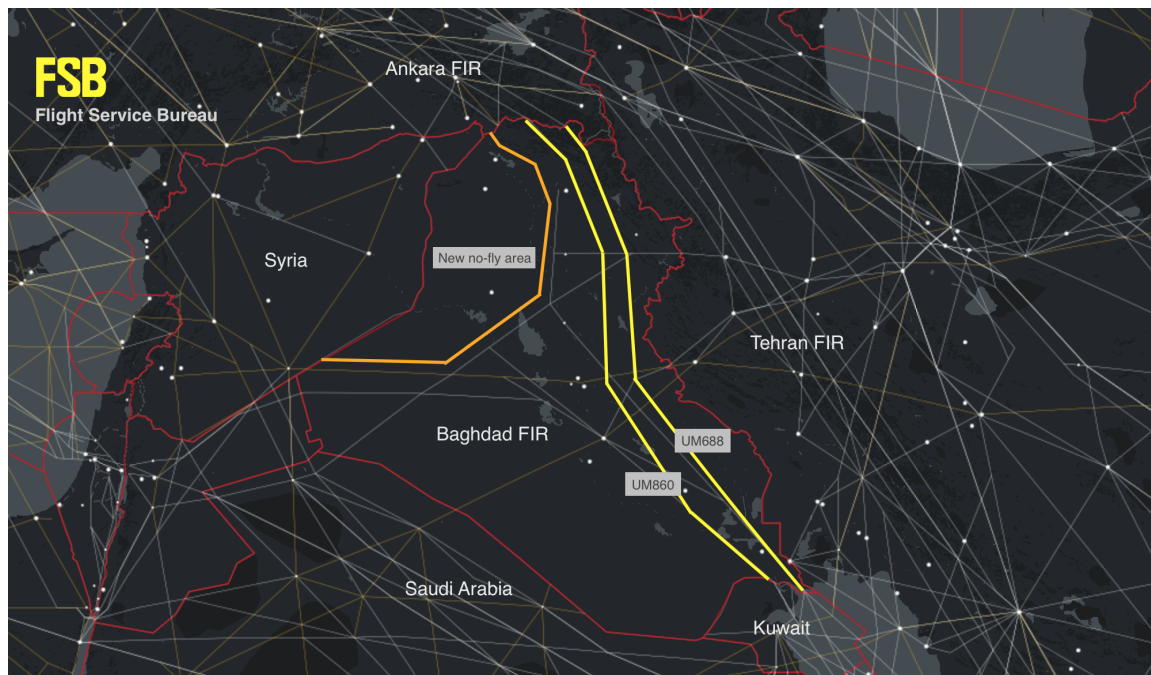
Keep an eye out, we'll let you know.

See also:

- 12 October 2017, "Iraq Airspace to re-open for overflights"

Iraq Airspace to re-open for overflights

Declan Selleck
30 September, 2022

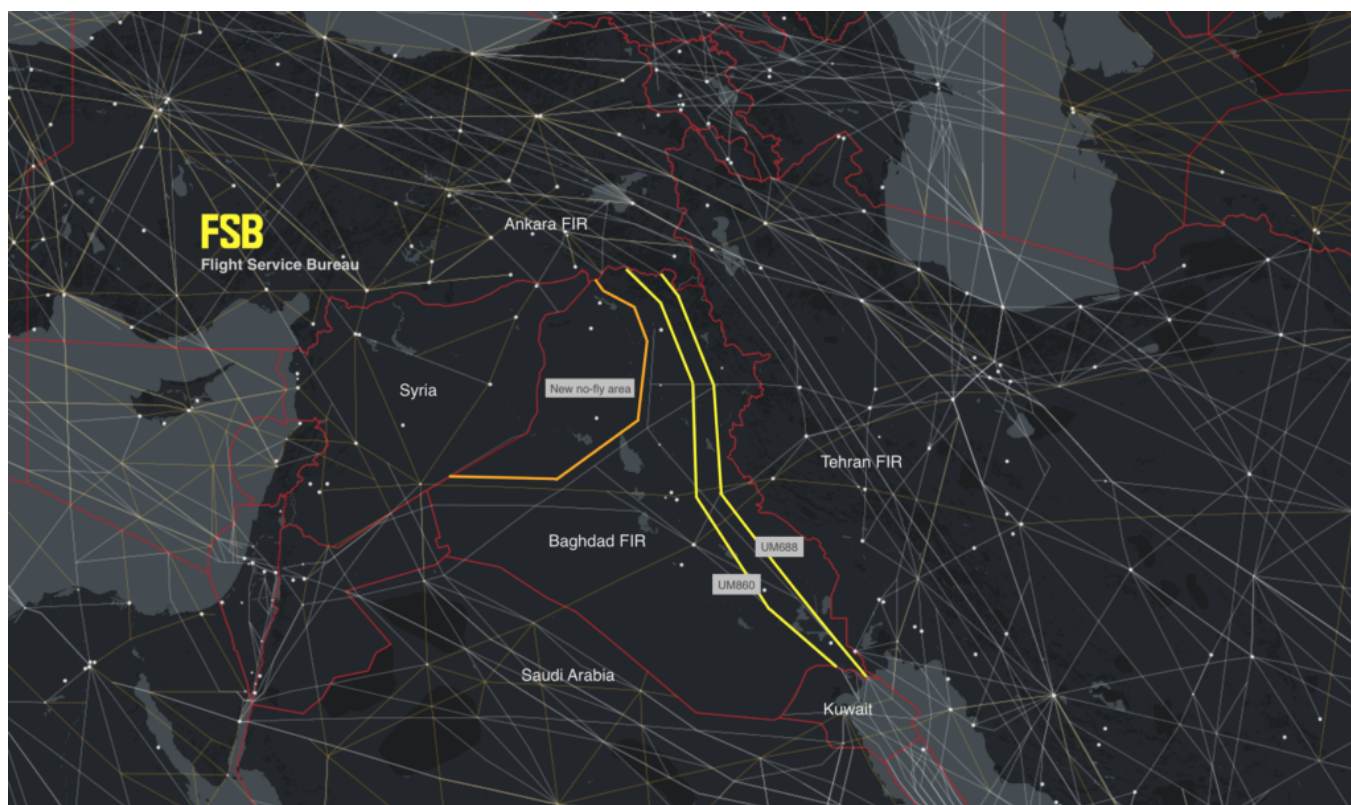


ORBB/Baghdad FIR Overflights of Iraq may be permitted to resume as early as next week, allowing international carriers access again to several previously heavily used routes through the eastern side of the Baghdad FIR.

In May of this year, SFAR 77 – banning US operators from operating within Iraqi airspace – lapsed, and was replaced by Notam KICZ 10/2017 – which had much the same wording.

However, on October 3rd, Iraq issued a new Notam (A0477/17) – with a **new restricted area** in the northwest of the FIR, from Surface to FL460. The previous restricted areas 601 and 701 were withdrawn.

This re-shuffling of restricted airspace paves the way for two major international air routes to be reopened, UM860 and UM688 – which were realigned in April for this purpose, allowing operators additional route options through the Middle East to Europe and vv.



FSB expects an official announcement shortly, and will update operators further. OpsGroup members will be notified directly.

ORER and ORSU: Closed to International Ops

Declan Selleck
30 September, 2022



The Iraqi CAA will ban all international flights to/from ORER/Erbil and ORSU/Sulaimaniyah starting from Friday 29th Sep.

From then on, those airports will only be open for Iraqi carriers and domestic ops.

Tensions around the Kurdish autonomous region of Iraq are rising following a referendum on independence.

The Iraqi govt has demanded that the KRG (Kurdistan Regional Government) hand over control of its two international airports – ORER and ORSU. Until the KRG comply with this request, the international ban on flights to these airports is set to continue.

At the request of the Iraqi govt, Iran had already closed it's airspace to ORER/ORSU traffic earlier this week, and Turkey was considering implementing the same ban.

The KRG are now deciding whether to give up control of their airports or lose their international flights. Should it be the latter, then from now on anyone attempting to travel to the region will have to transit via Baghdad.

We will update as more information becomes available.

