

Russian air base activity monitoring- Update Feb 2025

How it works

Radar images allow us to detect present material on airfields - from the material box up to the fighter aircraft. The strong backscatter occurs from the geometry of these objects, whereas no signal is present at the flat empty tarmacs. And one big advantage of such SAR(Radar) images is that they can see through clouds and also take images at night.

Kacha air base

The Kacha airbase shows a strong increase in activity:



Comparing it to other Russian airbases, it is likely that Russia is building new hangars and shelters on the base to better protect their equipment from enemy drones. All blue areas in following images below indicate the presence of any equipment – from a material box up to a fighter jet.



Kuschtschovskaya air base



Maxar image from the 6th of Jan: We can see new hangars being built, acft painted on the tarmac and some Su-27. Furthermore, there is also a destroyed fighter jet present.



We can also see new boxes and taxi ways, some Su-27 and Su-25. Furthermore, there is an air defense system, probably a TOR:



Morovovsk air base

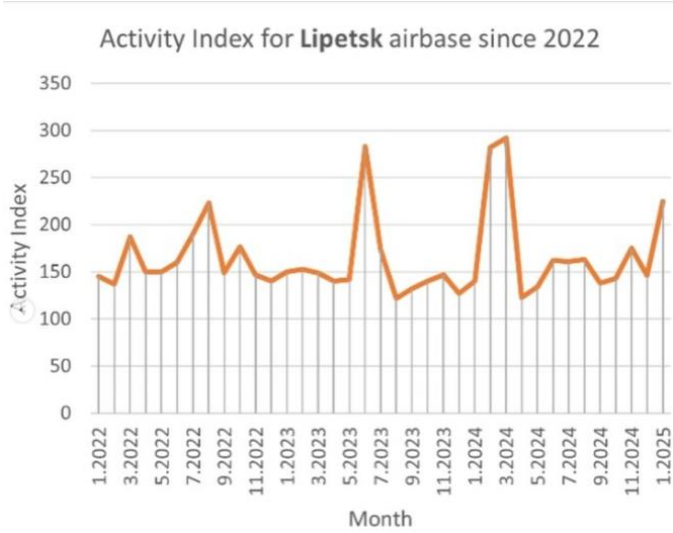


Maxar image from the 10th of Jan: We can see a lot of new hangars and storages being built. Furthermore, we can identify a completely destroyed ammo depot in the north east from a Ukrainian strike in Aug 2024.

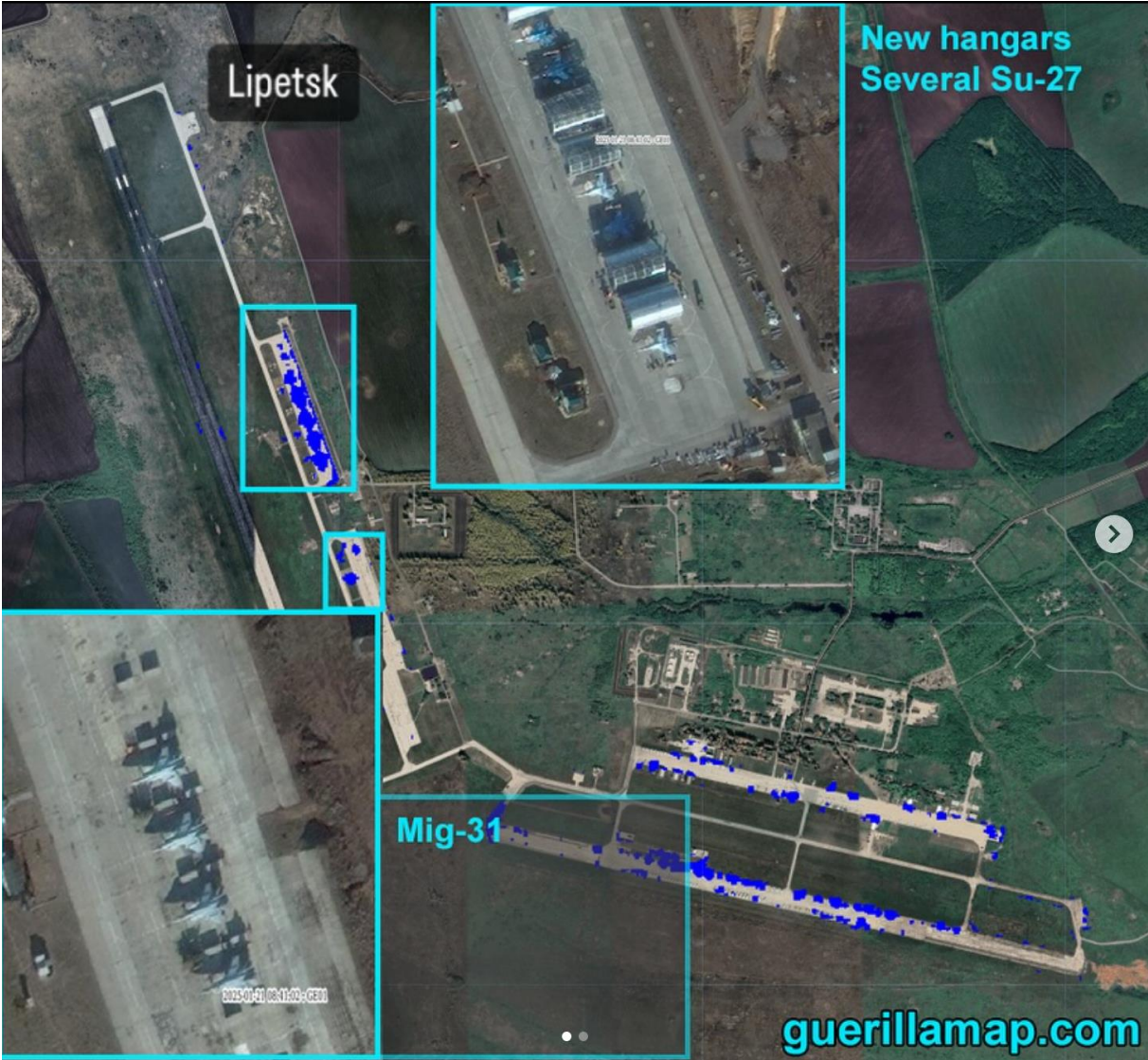


New hangars under construction

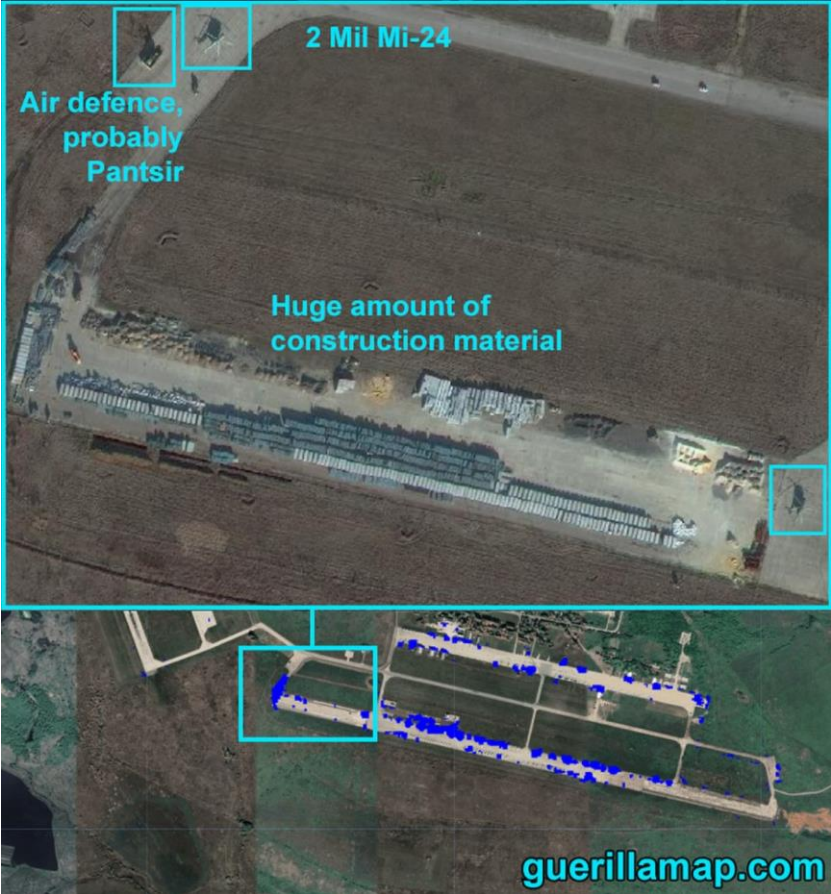
Lipetsk air base



Maxar image from the 21st of Jan: We can see new hangars being built in the north, several Su-27 and Mig-31, which are possibly still working, unlike the aircraft in the southern part of the base.



There are at least two Mil Mi-24 that appear to still function and a huge amount of construction equipment. There is also an air defence system, possibly a Pantsir.



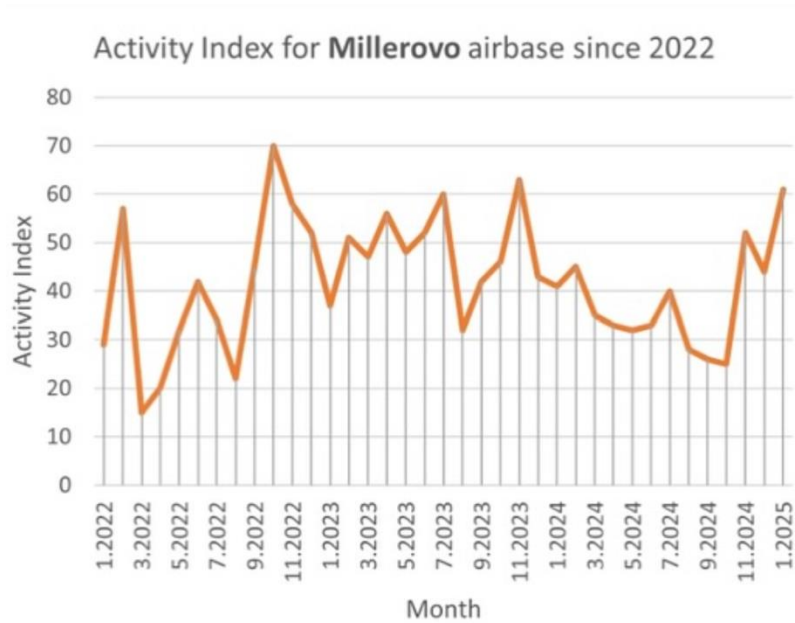
There are many acft present on the southern tarmac, however most of them are not functioning and are just used for spare parts. It's more like an acft graveyard.



We can see new dug out storages, a new hangar and several transport aircrafts. Furthermore, there are piles of ammunition, probably glide bombs



Millerovo air base



Maxar image from the 22nd of Jan: We can see new hangars being built and some non-identifiable air defense systems. Furthermore, there is a Mil Mi-26 present (note the 6 rotor blades)



We can see new hangars being built, a lot of material stacked up and in between, several Mig-29. In the east, there are also several Su-25 present.

