## Russian field fortifications in Ukraine

Satellite imagery shows trenches and barriers span the front line in Ukraine



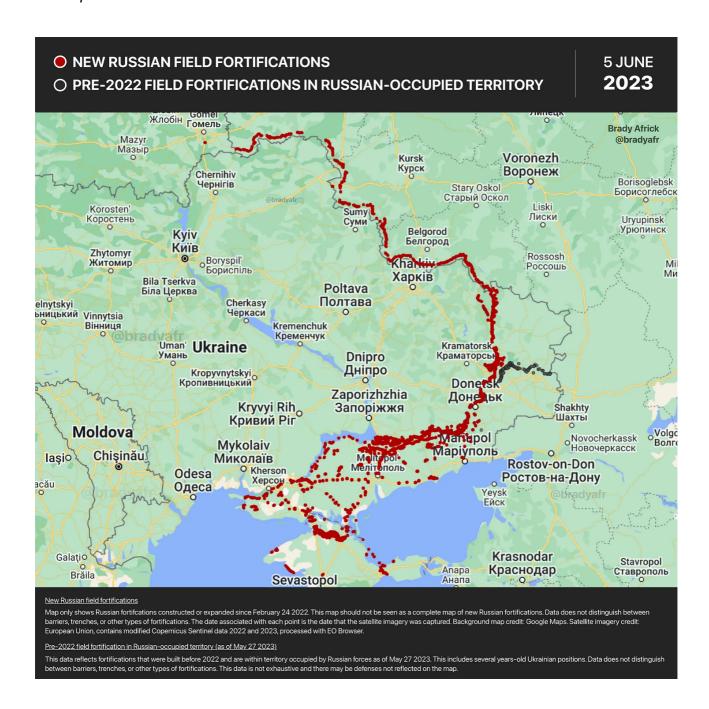
BRADY AFRICK 27 MAY 2023



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Last Updated June 5 2023



This map shows many of Russia's field fortifications in (and around) Ukraine as viewed via satellite imagery accessed from ESA's Sentinel-2 data. For the full interactive map, click here.

## Important notes:

- 1. This map should not be seen as a complete list of Russia's fortifications.
- 2. The data does not distinguish between barriers, trenches, or other types of fortifications.
- 3. Fortifications were only included if they appeared new, in-use or expanded since the full-scale invasion in February of 2022.
- 4. Not all of these fortifications are currently manned by Russian personnel.

A map of pre-2022 fortifications inside Russian-occupied territory is available here.

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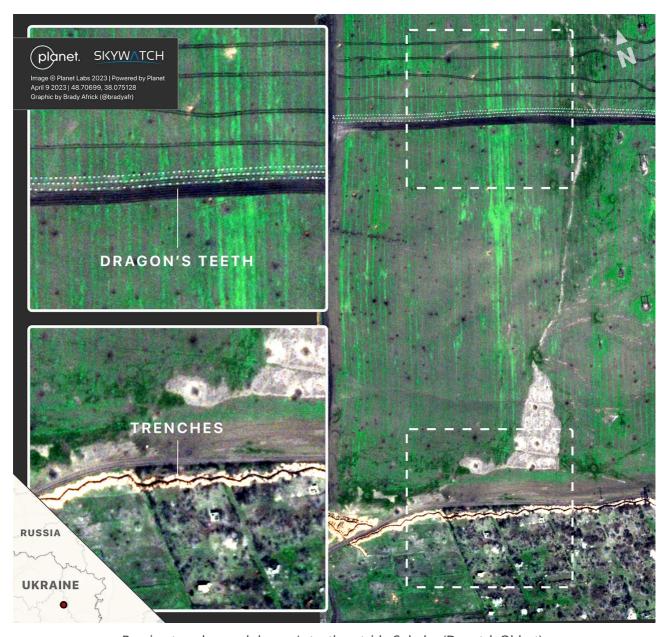
## High resolution images show Russia's fortifications in occupied Ukraine



Russian trenches constructed near Pokrovske, Donetsk Oblast.



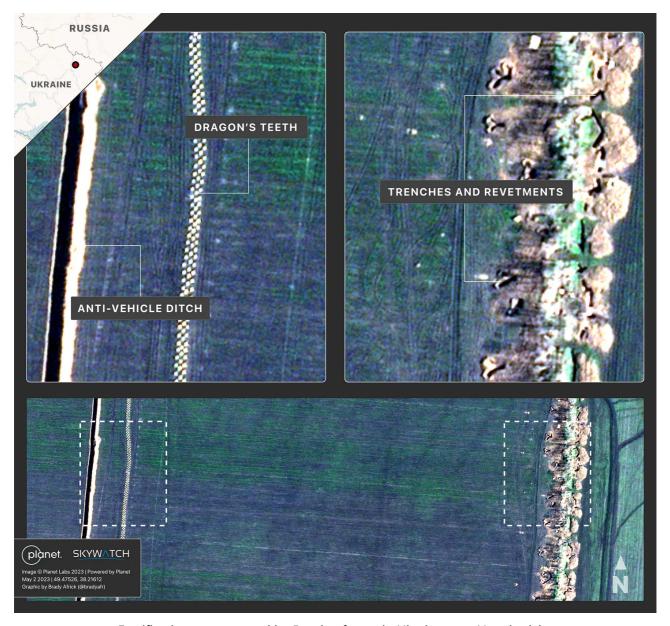
A new Russian trench intersects and older one near Zaitseve, Donetsk Oblast.



Russian trenches and dragon's teeth outside Soledar (Donetsk Oblast).



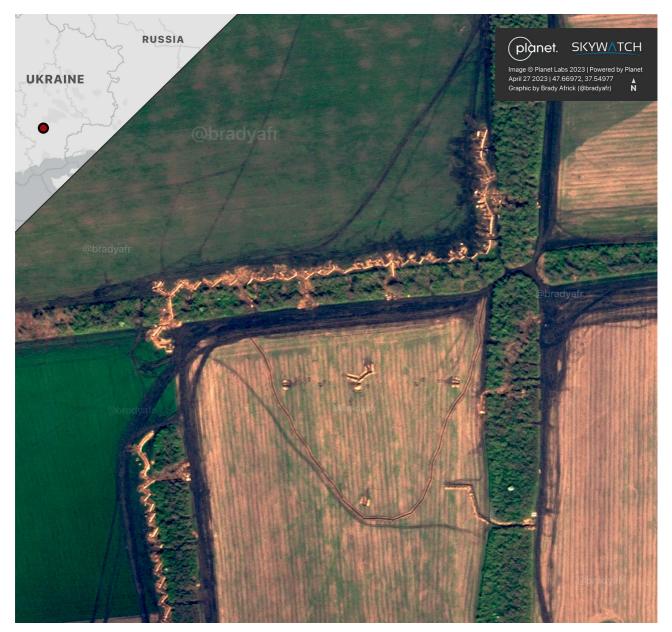
Russian trenches constructed outside the city of Donetsk in early 2023.



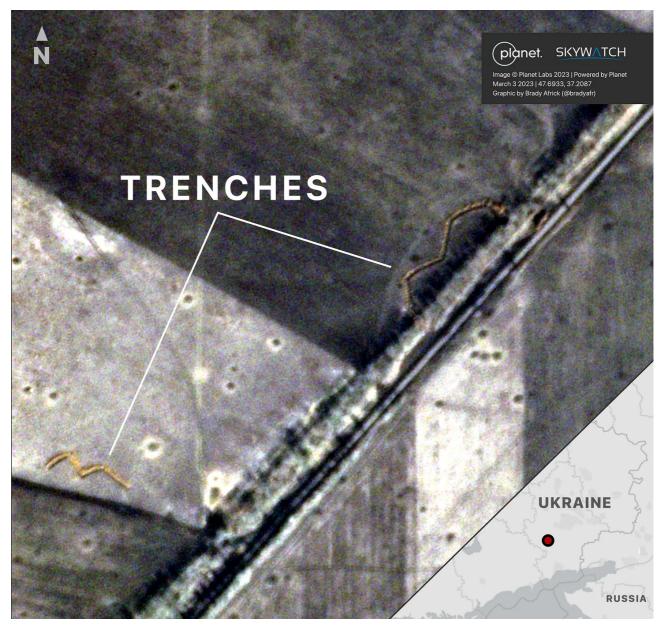
Fortifications constructed by Russian forces in Ukraine near Honcharivka (Luhansk Oblast). These positions are approximately 5 kilometers northeast of Svatove.



Russian trenches along the left bank of the Dnipro River.



Trenches near Olhynka, Donetsk Oblast.



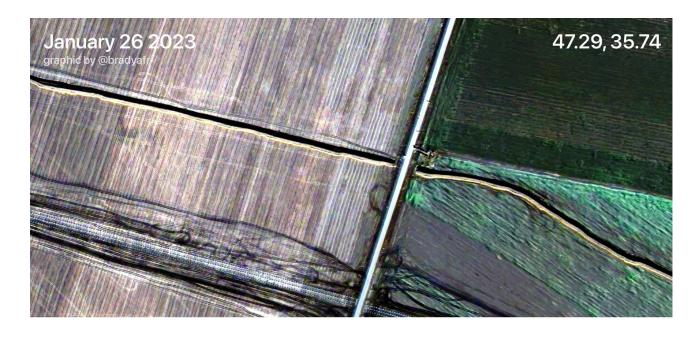
Russian trenches near Yehorivka, Donetsk Oblast.



Rows of dragon's teeth and freshly dug trenches near Sovkhoznoye in occupied Crimea.



Russian forces in occupied Berdyansk have fortified the airport with trenches and 'dragon's teeth.' This imagery shows part of the defensive line along the road leading to the airport.



Russian forces in occupied Tokmak have fortified the city with trenches and 'dragon's teeth.' This imagery shows part of the defensive line along the road leading to the city.



Russian forces in occupied Berdyansk have fortified the airport with trenches and 'dragon's teeth.' This imagery shows part of the defensive line in the western portion of the airport.



A depot with Russian military vehicles near Medvedivka in northern Crimea.



An emptied depot with Russian military vehicles near Medvedivka in northern Crimea.



Russian defenses constructed near Mykhailivka in Zaporizhzhia Oblast



A Russian base in southern Ukraine constructed in late 2022.





45.11877, 33.96395 45.13307, 33.98517

Trenches constructed near Gvardeyskoye air base in Crimea



Rows of "dragon's teeth" near Kreminna, Luhansk Oblast

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