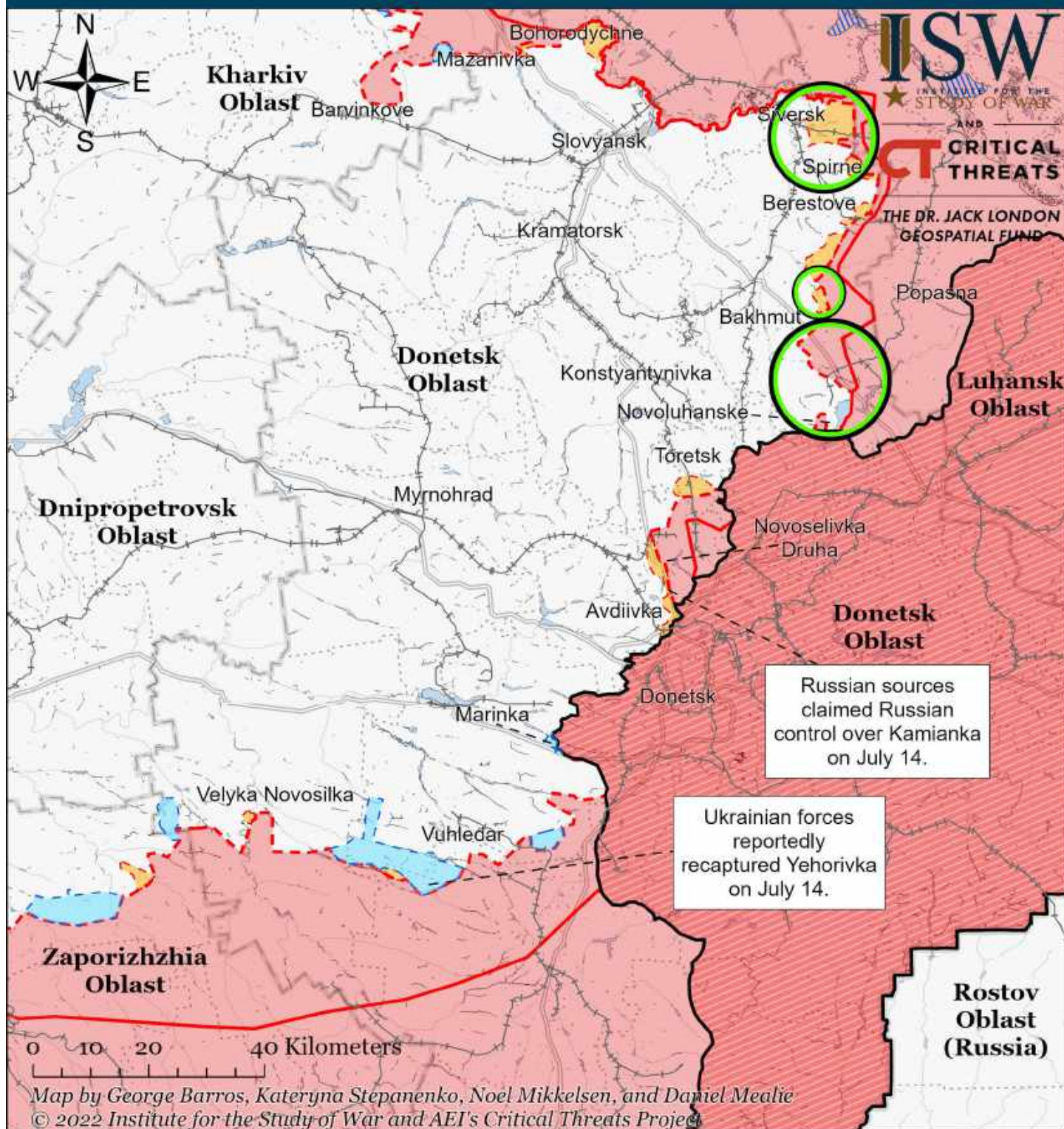
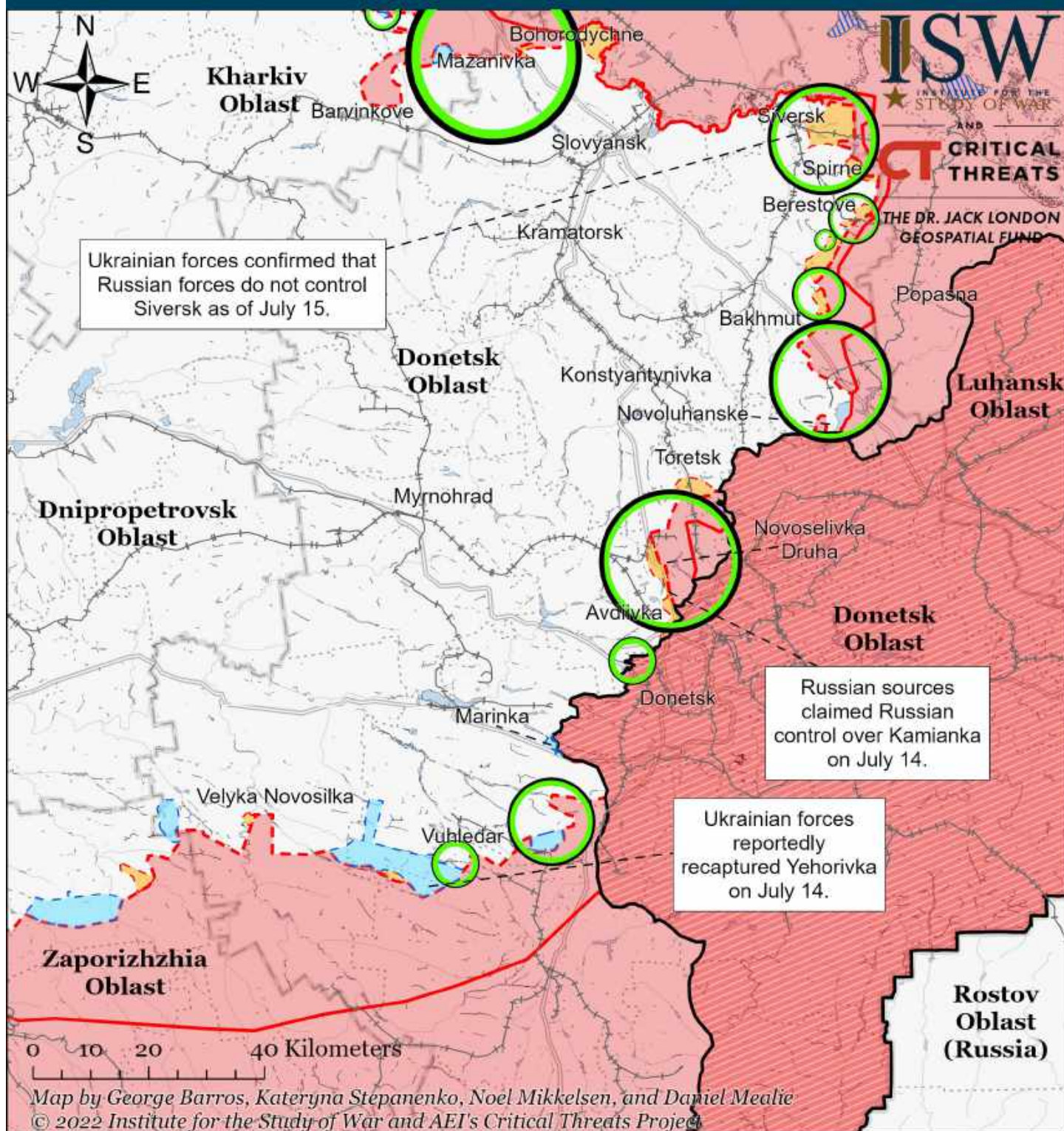


Assessed Control of Terrain Around Donetsk as of July 23, 2022, 3:00 PM ET



* Assessed Russian advances are areas where ISW assesses Russian forces have operated in or launched attacks against but do not control.

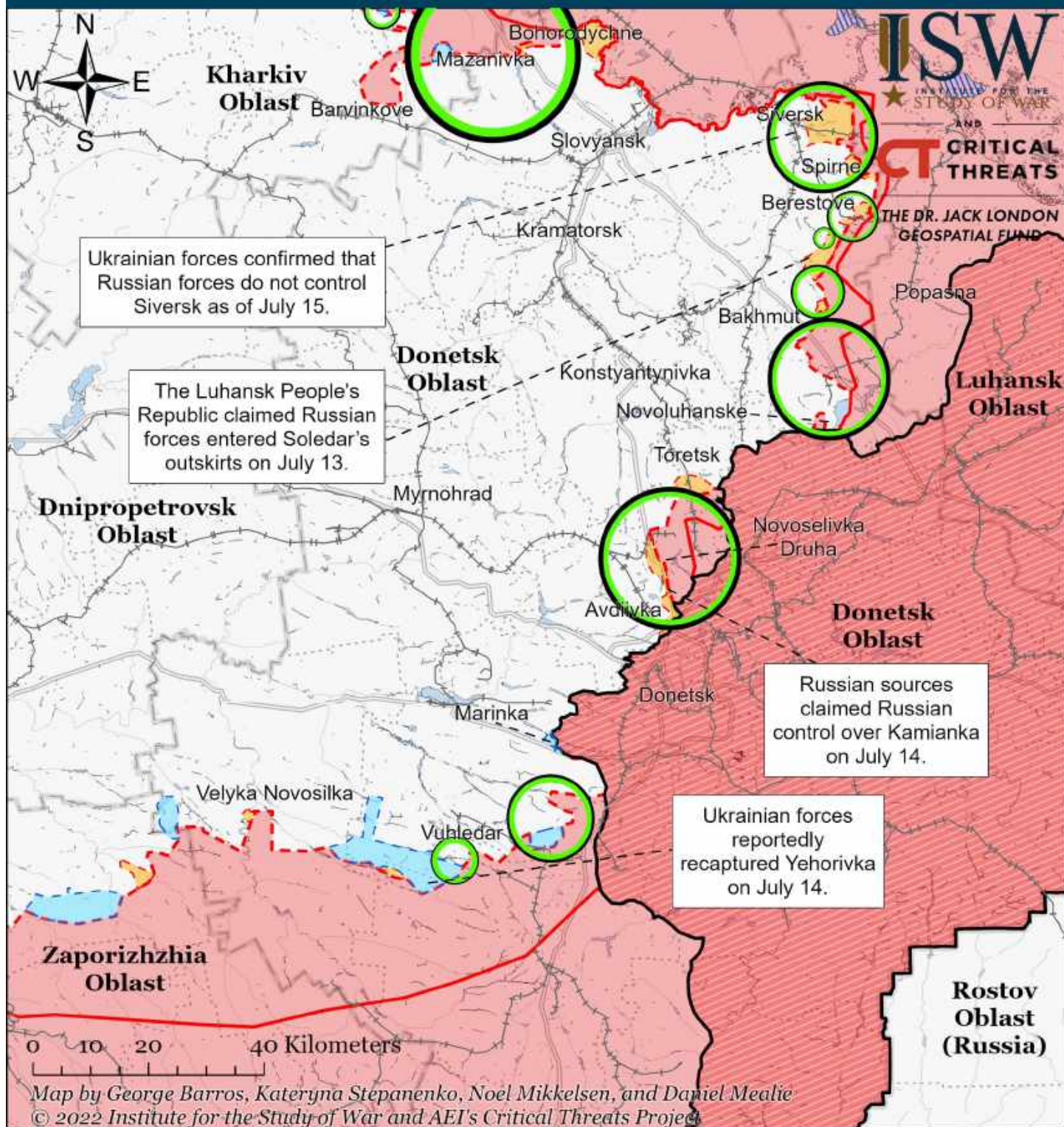
Assessed Control of Terrain Around Donetsk as of July 22, 2022, 3:00 PM ET



- Significant Fighting in the past 24 Hours
- ▭ Assessed Russian-controlled Ukrainian Territory
- ▨ Reported Ukrainian Partisan Warfare
- ▭ Russian-controlled Ukrainian Territory before February 24
- ▭ Claimed Russian Control over Ukrainian Territory
- ▭ Assessed Russian Advances in Ukraine*
- ▭ Claimed Ukrainian Counteroffensives
- Major Railroads

* Assessed Russian advances are areas where ISW assesses Russian forces have operated in or launched attacks against but do not control.

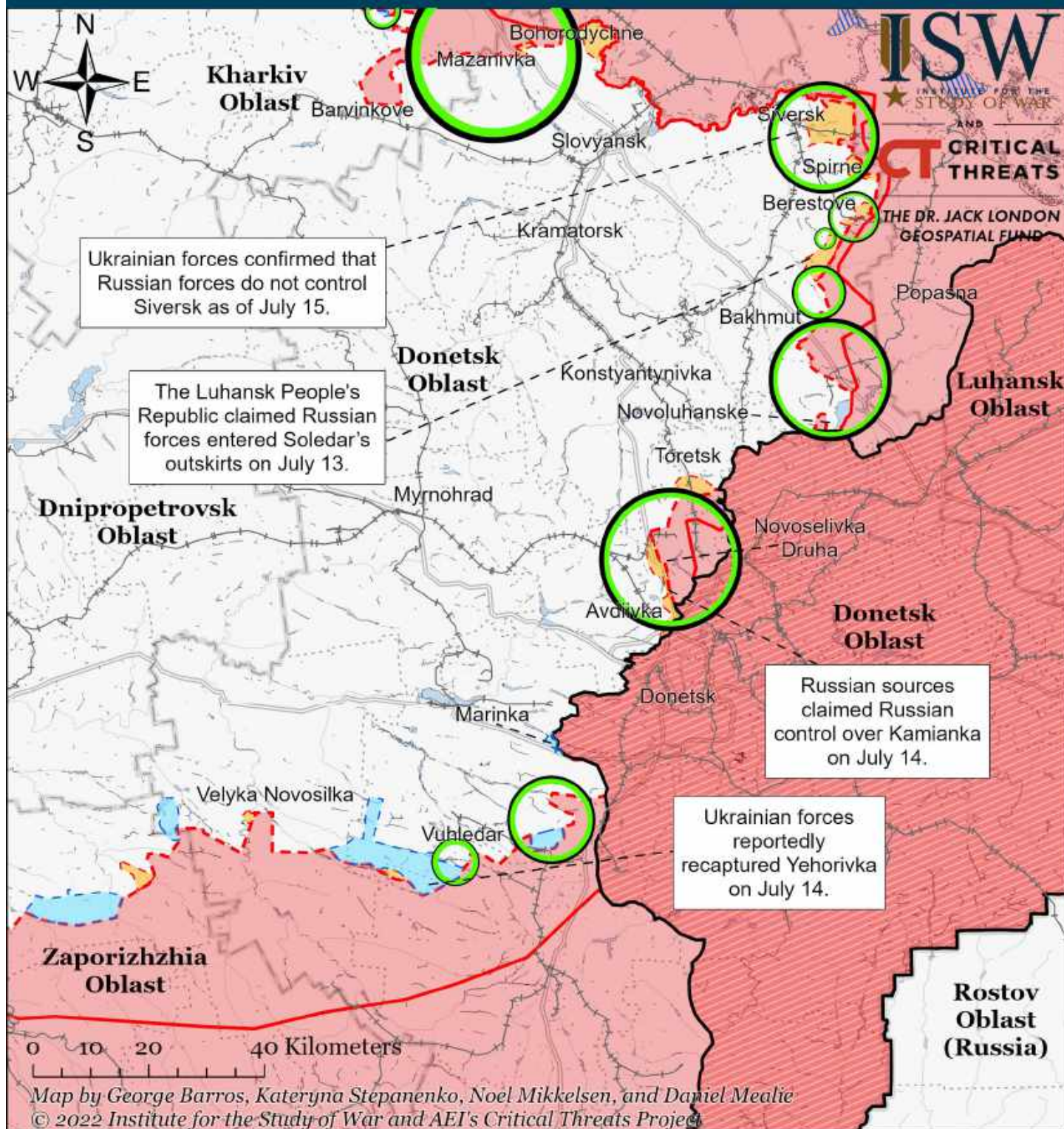
Assessed Control of Terrain Around Donetsk as of July 21, 2022, 3:00 PM ET



- Significant Fighting in the past 24 Hours
- Assessed Russian-controlled Ukrainian Territory
- Reported Ukrainian Partisan Warfare
- Russian-controlled Ukrainian Territory before February 24
- Claimed Russian Control over Ukrainian Territory
- Assessed Russian Advances in Ukraine*
- Claimed Ukrainian Counteroffensives
- Major Railroads

* Assessed Russian advances are areas where ISW assesses Russian forces have operated in or launched attacks against but do not control.

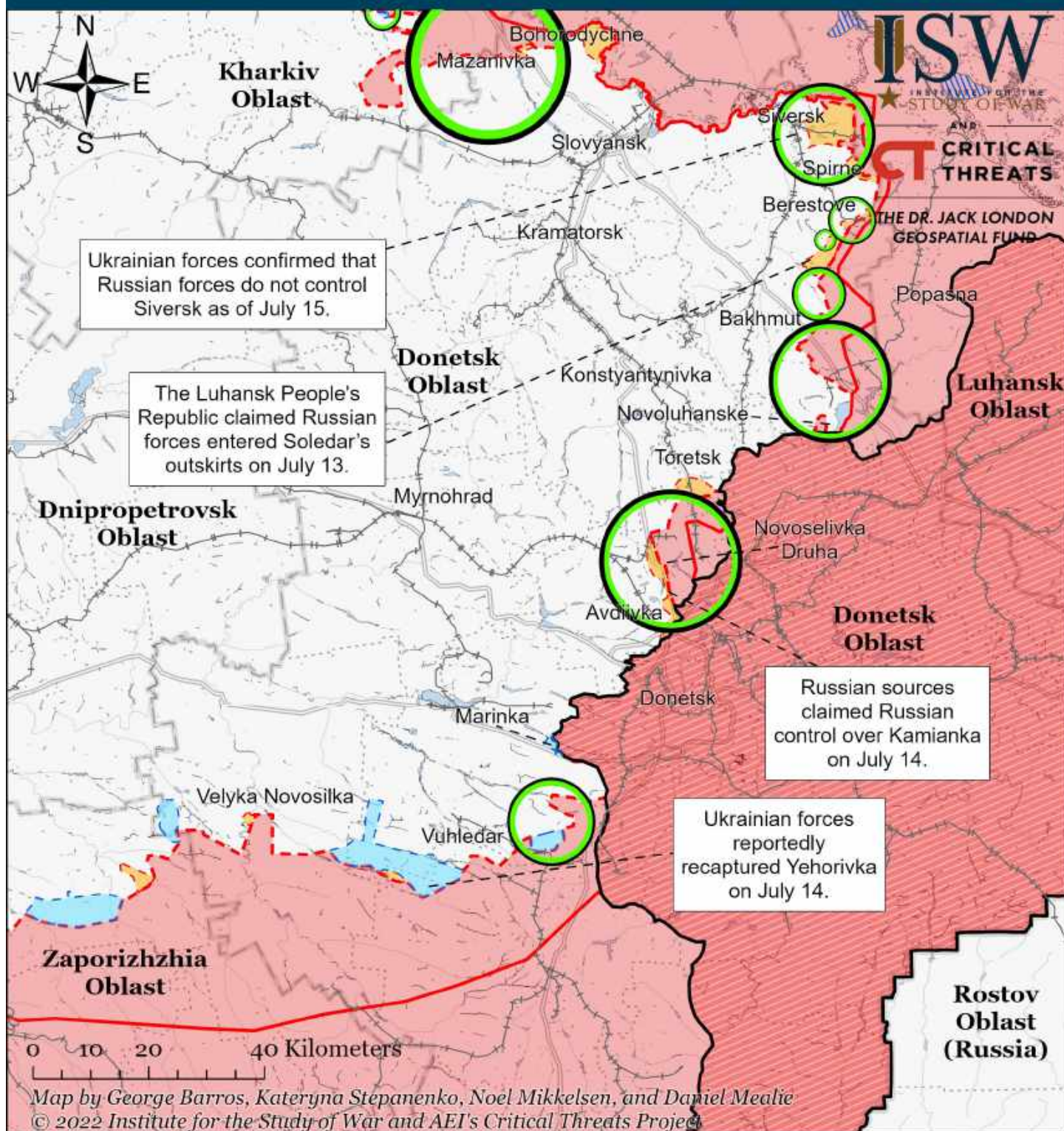
Assessed Control of Terrain Around Donetsk as of July 20, 2022, 3:00 PM ET



- Significant Fighting in the past 24 Hours
- Assessed Russian-controlled Ukrainian Territory
- Reported Ukrainian Partisan Warfare
- Russian-controlled Ukrainian Territory before February 24
- Claimed Russian Control over Ukrainian Territory
- Major Railroads
- Assessed Russian Advances in Ukraine*
- Claimed Ukrainian Counteroffensives

* Assessed Russian advances are areas where ISW assesses Russian forces have operated in or launched attacks against but do not control.

Assessed Control of Terrain Around Donetsk as of July 19, 2022, 3:00 PM ET



- Significant Fighting in the past 24 Hours
- Assessed Russian-controlled Ukrainian Territory
- Reported Ukrainian Partisan Warfare
- Russian-controlled Ukrainian Territory before February 24
- Claimed Russian Control over Ukrainian Territory
- Major Railroads
- - - Assessed Russian Advances in Ukraine*
- Claimed Ukrainian Counteroffensives

* Assessed Russian advances are areas where ISW assesses Russian forces have operated in or launched attacks against but do not control.

Assessed Control of Terrain in Ukraine and Main Russian Maneuver Axes as of July 23, 2022, 3:00 PM ET



Map by George Barros, Kateryna Stepanenko, Noel Mikkelsen, and Daniel Mealie
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* Assessed Russian advances are areas where ISW assesses Russian forces have operated in or launched attacks against but do not control.

Assessed Control of Terrain in Ukraine and Main Russian Maneuver Axes as of July 22, 2022, 3:00 PM ET



Map by George Barros, Kateryna Stepanenko, Noel Mikkelsen, and Daniel Mealie
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* Assessed Russian advances are areas where ISW assesses Russian forces have operated in or launched attacks against but do not control.

Assessed Control of Terrain in Ukraine and Main Russian Maneuver Axes as of July 21, 2022, 3:00 PM ET



Map by George Barros, Kateryna Stepanenko, Noel Mikkelsen, and Daniel Mealie
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* Assessed Russian advances are areas where ISW assesses Russian forces have operated in or launched attacks against but do not control.

Assessed Control of Terrain in Ukraine and Main Russian Maneuver Axes as of July 20, 2022, 3:00 PM ET



Map by George Barros, Kateryna Stepanenko, Noel Mikkelsen, and Daniel Mealie
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* Assessed Russian advances are areas where ISW assesses Russian forces have operated in or launched attacks against but do not control.

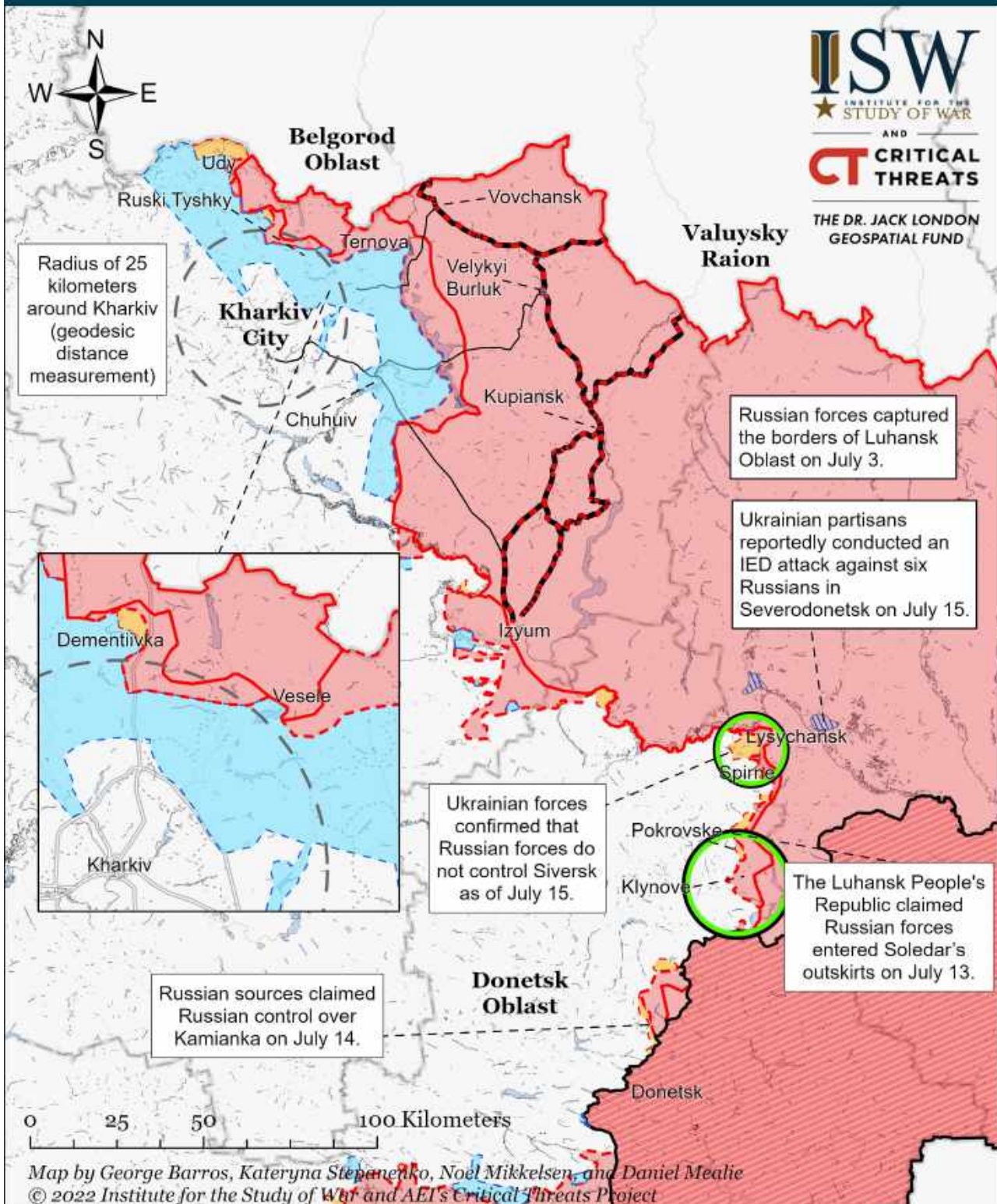
Assessed Control of Terrain in Ukraine and Main Russian Maneuver Axes as of July 19, 2022, 3:00 PM ET



Map by George Barros, Kateryna Stepanenko, Noel Mikkelsen, and Daniel Mealie
© 2022 Institute for the Study of War and AEI's Critical Threats Project

* Assessed Russian advances are areas where ISW assesses Russian forces have operated in or launched attacks against but do not control.

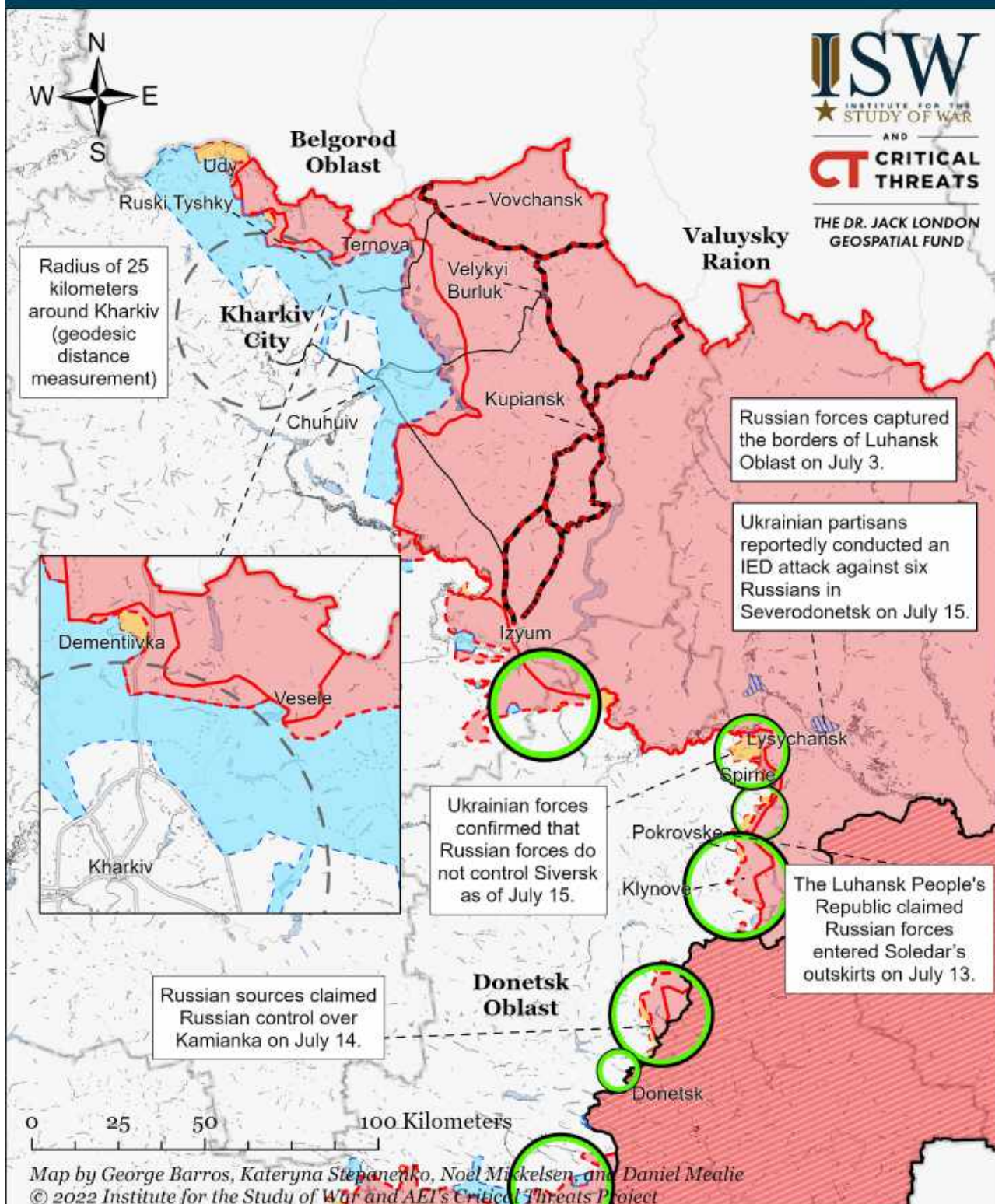
Assessed Control of Terrain Around Kharkiv as of July 23, 2022, 3:00 PM ET



- | | | |
|---|---|--|
| Significant Fighting in the past 24 Hours | Russian-controlled Ukrainian Territory before February 24 | Claimed Russian Control over Ukrainian Territory |
| Key Ukrainian Roads | Assessed Russian Advances in Ukraine* | Claimed Ukrainian Counteroffensives |
| Russian Ground Lines of Communication | Assessed Russian-controlled Ukrainian Territory | Reported Ukrainian Partisan Warfare |

* Assessed Russian advances are areas where ISW assesses Russian forces have operated in or launched attacks against but do not control.

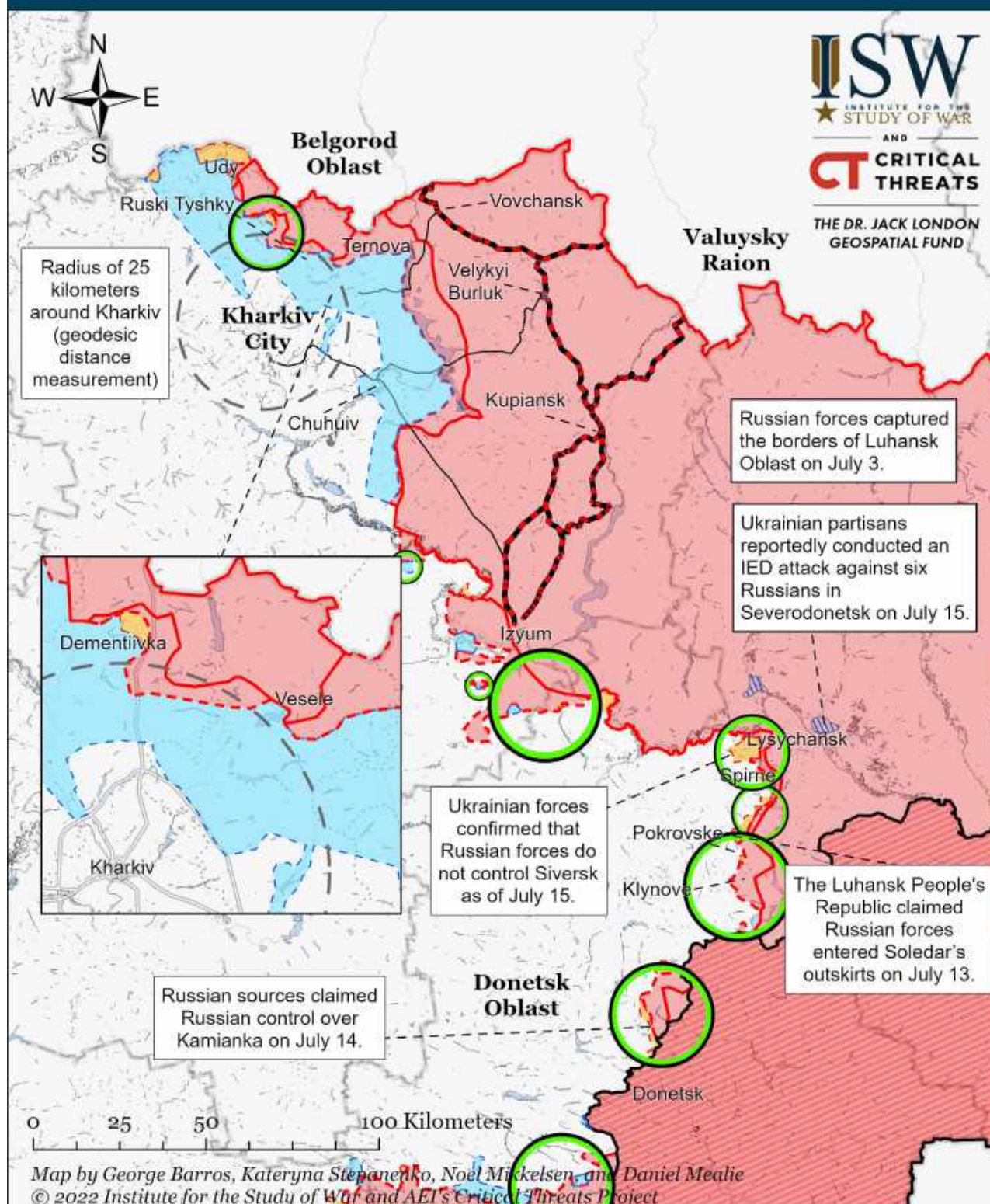
Assessed Control of Terrain Around Kharkiv as of July 22, 2022, 3:00 PM ET



- | | | |
|---|---|--|
| Significant Fighting in the past 24 Hours | Russian-controlled Ukrainian Territory before February 24 | Claimed Russian Control over Ukrainian Territory |
| Key Ukrainian Roads | Assessed Russian Advances in Ukraine* | Claimed Ukrainian Counteroffensives |
| Russian Ground Lines of Communication | Assessed Russian-controlled Ukrainian Territory | Reported Ukrainian Partisan Warfare |

* Assessed Russian advances are areas where ISW assesses Russian forces have operated in or launched attacks against but do not control.

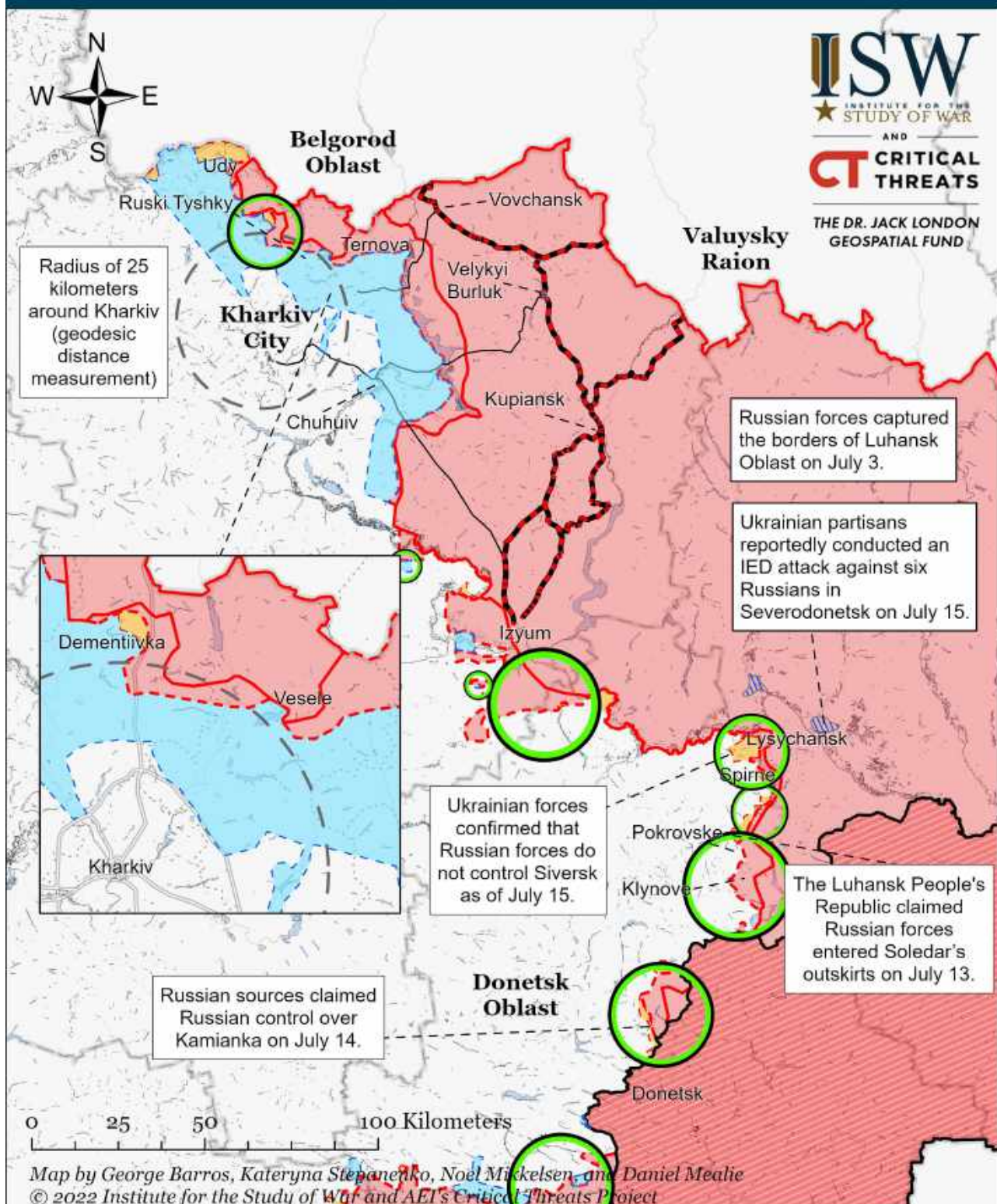
Assessed Control of Terrain Around Kharkiv as of July 21, 2022, 3:00 PM ET



- Significant Fighting in the past 24 Hours
- Key Ukrainian Roads
- Russian Ground Lines of Communication
- ▬ Russian-controlled Ukrainian Territory before February 24
- ▬ Assessed Russian Advances in Ukraine*
- ▬ Assessed Russian-controlled Ukrainian Territory
- ▬ Claimed Russian Control over Ukrainian Territory
- ▬ Claimed Ukrainian Counteroffensives
- ▬ Reported Ukrainian Partisan Warfare

* Assessed Russian advances are areas where ISW assesses Russian forces have operated in or launched attacks against but do not control.

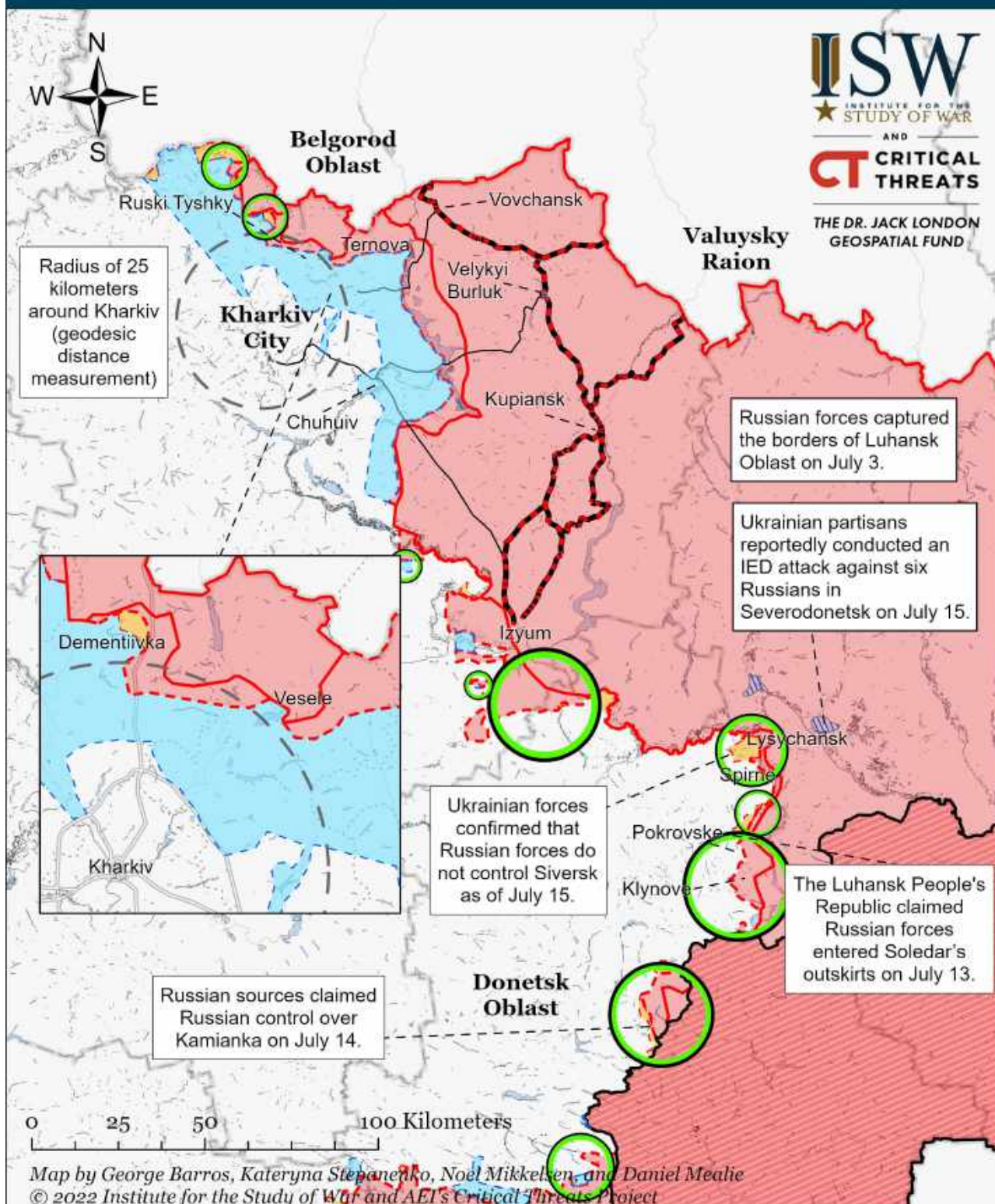
Assessed Control of Terrain Around Kharkiv as of July 20, 2022, 3:00 PM ET



- | | | |
|---|---|--|
| Significant Fighting in the past 24 Hours | Russian-controlled Ukrainian Territory before February 24 | Claimed Russian Control over Ukrainian Territory |
| Key Ukrainian Roads | Assessed Russian Advances in Ukraine* | Claimed Ukrainian Counteroffensives |
| Russian Ground Lines of Communication | Assessed Russian-controlled Ukrainian Territory | Reported Ukrainian Partisan Warfare |

* Assessed Russian advances are areas where ISW assesses Russian forces have operated in or launched attacks against but do not control.

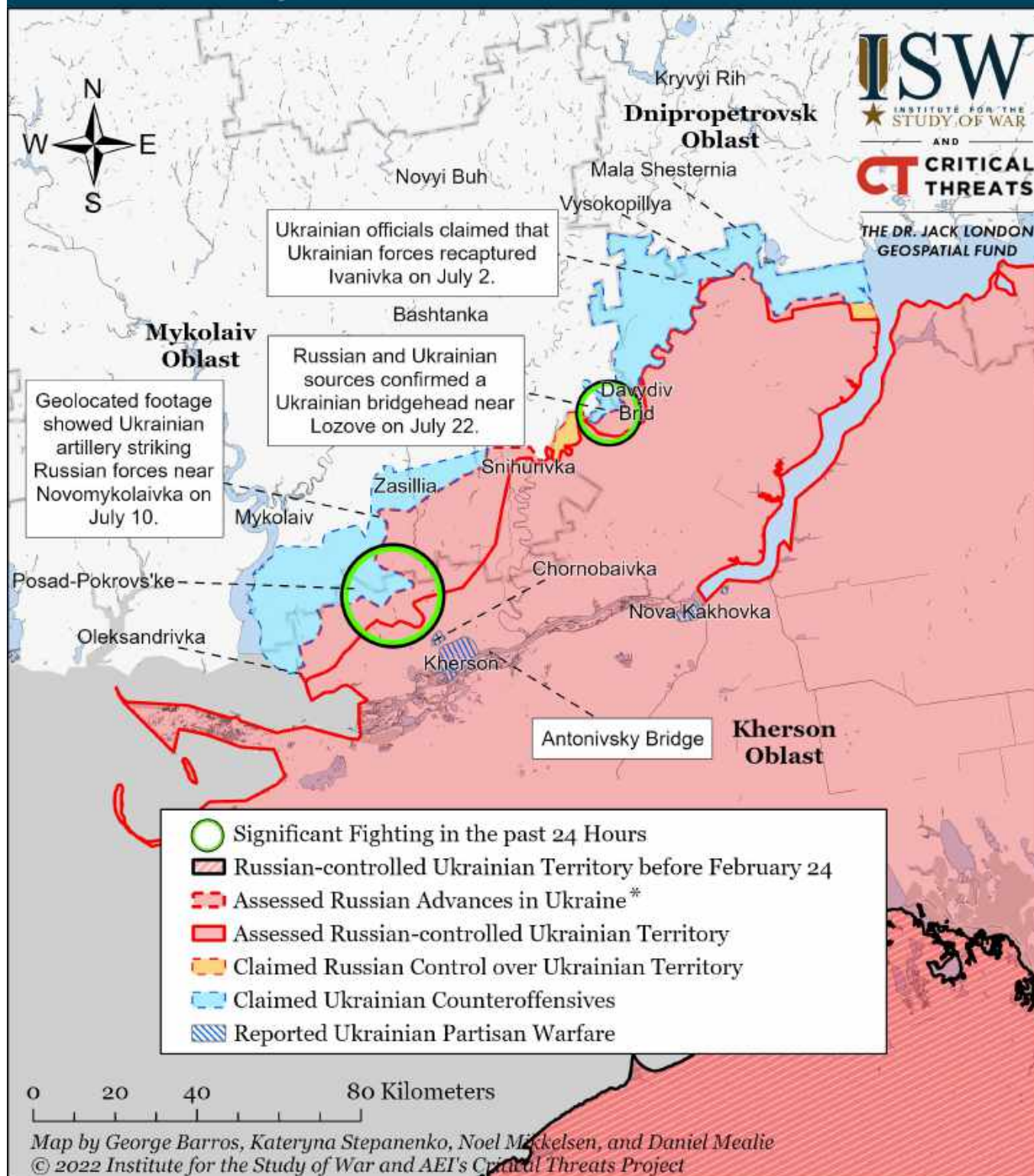
Assessed Control of Terrain Around Kharkiv as of July 19, 2022, 3:00 PM ET



- Significant Fighting in the past 24 Hours
- Key Ukrainian Roads
- Russian Ground Lines of Communication
- ▬ Russian-controlled Ukrainian Territory before February 24
- ▬ Assessed Russian Advances in Ukraine*
- ▬ Assessed Russian-controlled Ukrainian Territory
- ▬ Claimed Russian Control over Ukrainian Territory
- ▬ Claimed Ukrainian Counteroffensives
- ▬ Reported Ukrainian Partisan Warfare

* Assessed Russian advances are areas where ISW assesses Russian forces have operated in or launched attacks against but do not control.

Assessed Control of Terrain Around Kherson and Mykolaiv as of July 23, 2022, 3:00 PM ET



* Assessed Russian advances are areas where ISW assesses Russian forces have operated in or launched attacks against but do not control.

Note: ISW expanded Ukrainian counteroffensives to Lozove on the left bank of the Inhulets River on July 5. The Ukrainian General Staff reported on July 6 that Ukrainian forces repelled a Russian offensive in the direction of Lozove in Kherson Oblast, indicating that Ukrainian forces still maintain a position there. Russian Telegram Channel Rybar claimed that Ukrainian forces launched unsuccessful attacks on the Snihurivka-Lozove-Bila Krynytsya line on July 4. Ukraine's Southern Operational Command stated on July 20 that Ukrainian forces repelled a Russian platoon counterattack in the Lozove area, indicating that Ukrainian forces are in Lozove. Russian Telegram channel Rybar confirmed that Ukrainian forces crossed the river and are in Lozove on July 22. The Ukrainian General Staff stated that Ukrainian forces defeated a Russian attack near Bilohirka on July 22, indicating Ukrainian forces also likely control Bilohirka. We will update our maps as we collect and confirm more information.

Assessed Control of Terrain Around Kherson and Mykolaiv as of July 22, 2022, 3:00 PM ET



* Assessed Russian advances are areas where ISW assesses Russian forces have operated in or launched attacks against but do not control.

Note: ISW expanded Ukrainian counteroffensives to Lozove on the left bank of the Inhulets River on July 5. The Ukrainian General Staff reported on July 6 that Ukrainian forces repelled a Russian offensive in the direction of Lozove in Kherson Oblast, indicating that Ukrainian forces still maintain a position there. Russian Telegram Channel Rybar claimed that Ukrainian forces launched unsuccessful attacks on the Snihurivka-Lozove-Bila Krynytsya line on July 4. Ukraine's Southern Operational Command stated on July 20 that Ukrainian forces repelled a Russian platoon counterattack in the Lozove area, indicating that Ukrainian forces are in Lozove. Russian Telegram channel Rybar confirmed that Ukrainian forces crossed the river and are in Lozove on July 22. The Ukrainian General Staff stated that Ukrainian forces defeated a Russian attack near Bilohirka on July 22, indicating Ukrainian forces also likely control Bilohirka. We will update our maps as we collect and confirm more information.

Assessed Control of Terrain Around Kherson and Mykolaiv as of July 21, 2022, 3:00 PM ET



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Note: ISW expanded Ukrainian counteroffensives to Lozove on the left bank of the Inhulets River on July 5. The Ukrainian General Staff reported on July 6 that Ukrainian forces repelled a Russian offensive in the direction of Lozove in Kherson Oblast, indicating that Ukrainian forces still maintain a position there. Russian Telegram Channel Rybar claimed that Ukrainian forces launched unsuccessful attacks on the Snihurivka-Lozove-Bila Krynytsya line on July 4. Ukraine's Southern Operational Command stated on July 20 that Ukrainian forces repelled a Russian platoon counterattack in the Lozove area, indicating that Ukrainian forces are in Lozove. We will update our maps as we collect and confirm more information.

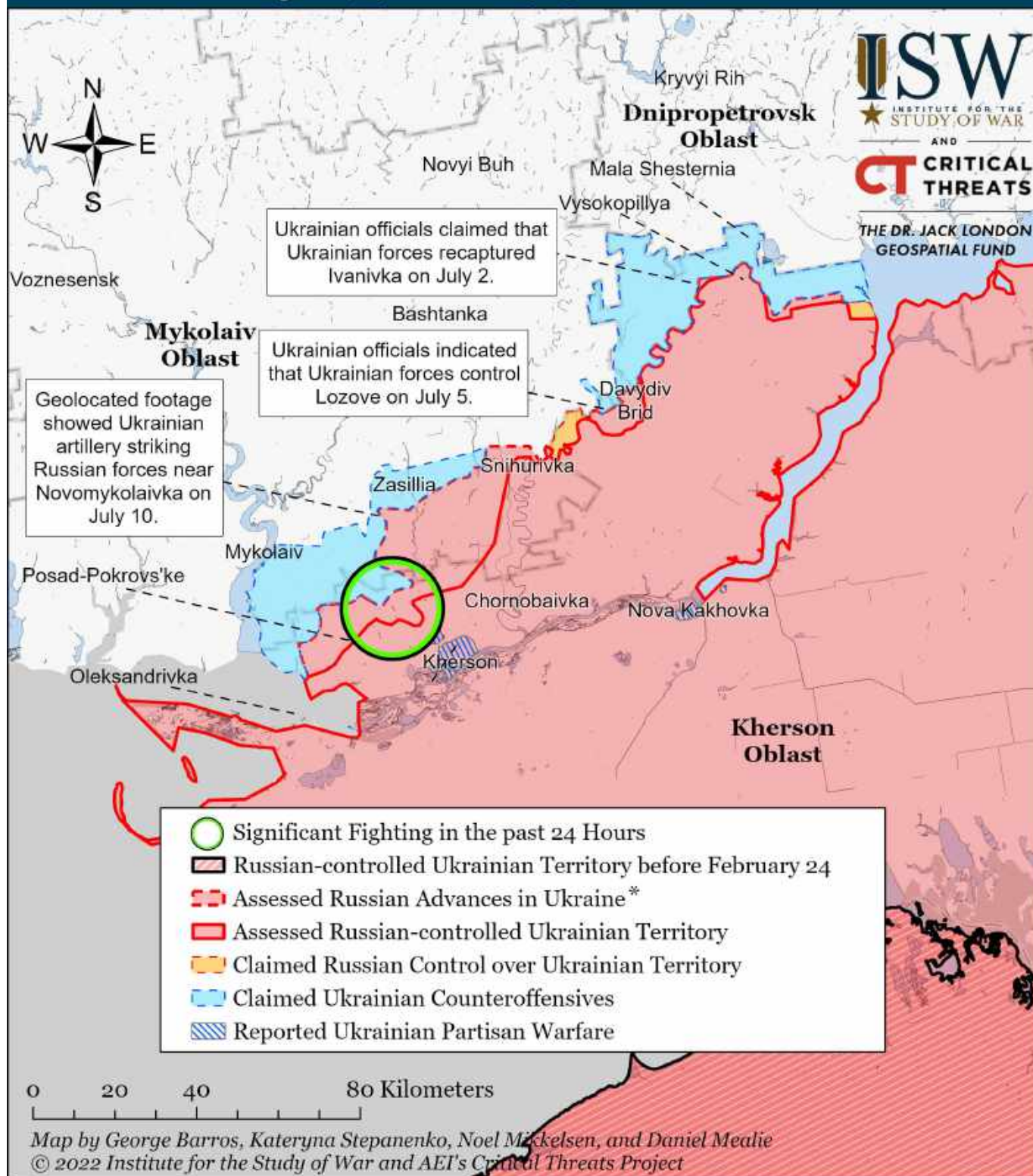
Assessed Control of Terrain Around Kherson and Mykolaiv as of July 20, 2022, 3:00 PM ET



* Assessed Russian advances are areas where ISW assesses Russian forces have operated in or launched attacks against but do not control.

Note: ISW expanded Ukrainian counteroffensives to Lozove on the left bank of the Inhulets River on July 5. The Ukrainian General Staff reported on July 6 that Ukrainian forces repelled a Russian offensive in the direction of Lozove in Kherson Oblast, indicating that Ukrainian forces still maintain a position there. Russian Telegram Channel Rybar claimed that Ukrainian forces launched unsuccessful attacks on the Snihurivka-Lozove-Bila Krynytsya line on July 4. Ukraine's Southern Operational Command stated on July 5 that Ukrainian forces repelled a Russian platoon counterattack in the Lozove area, indicating that Ukrainian forces are in Lozove. Ukrainian combat footage posted in mid-June showed Ukrainian forces shelling Russian positions near Lozove. NASA FIRMS data for July 5 shows heat anomaly concentrations south of Lozove consistent with Ukraine's Southern Operational Command report. We will update our maps as we collect and confirm more information.

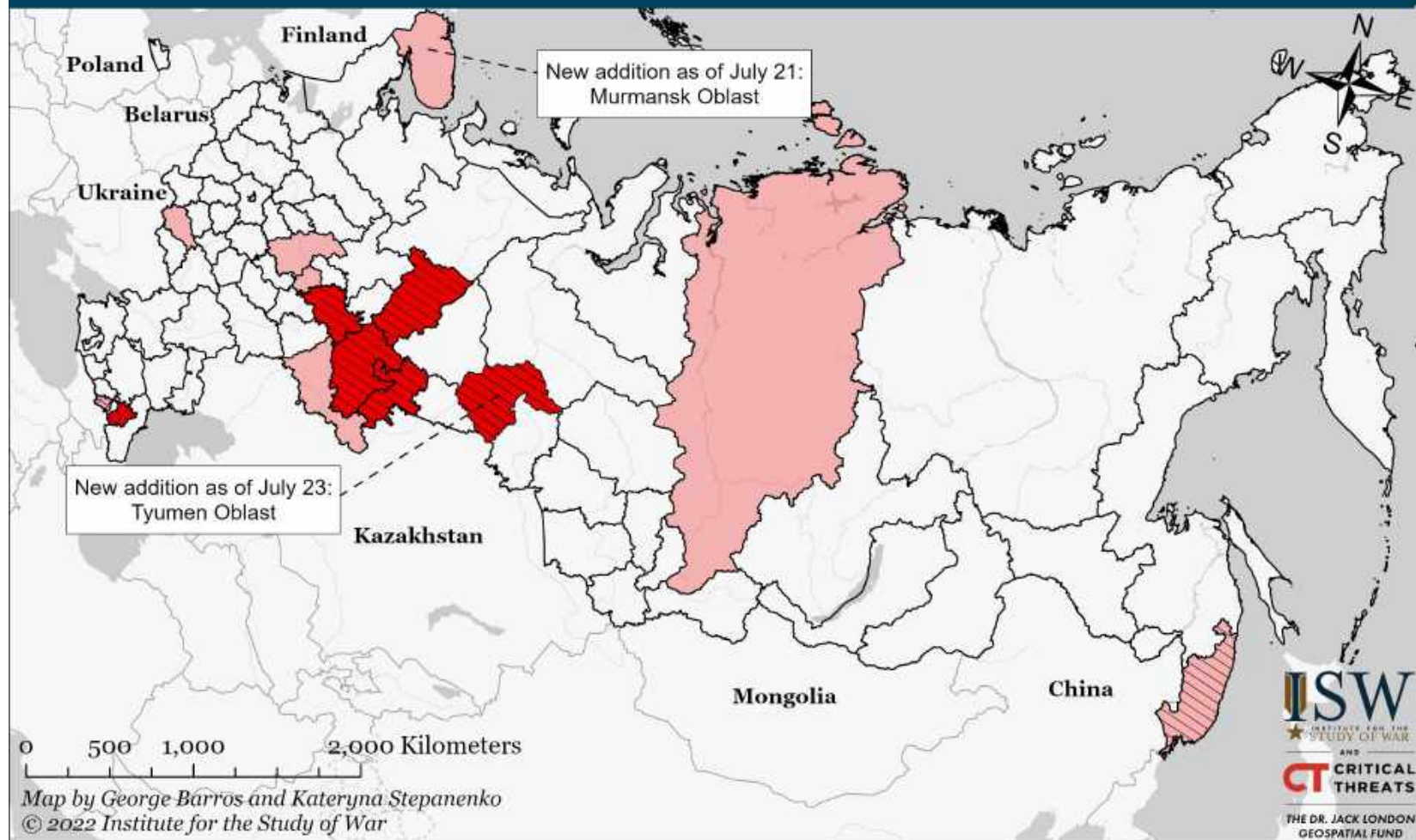
Assessed Control of Terrain Around Kherson and Mykolaiv as of July 19, 2022, 3:00 PM ET







* Assessed Russian advances are areas where ISW assesses Russian forces have operated in or launched attacks against but do not control.

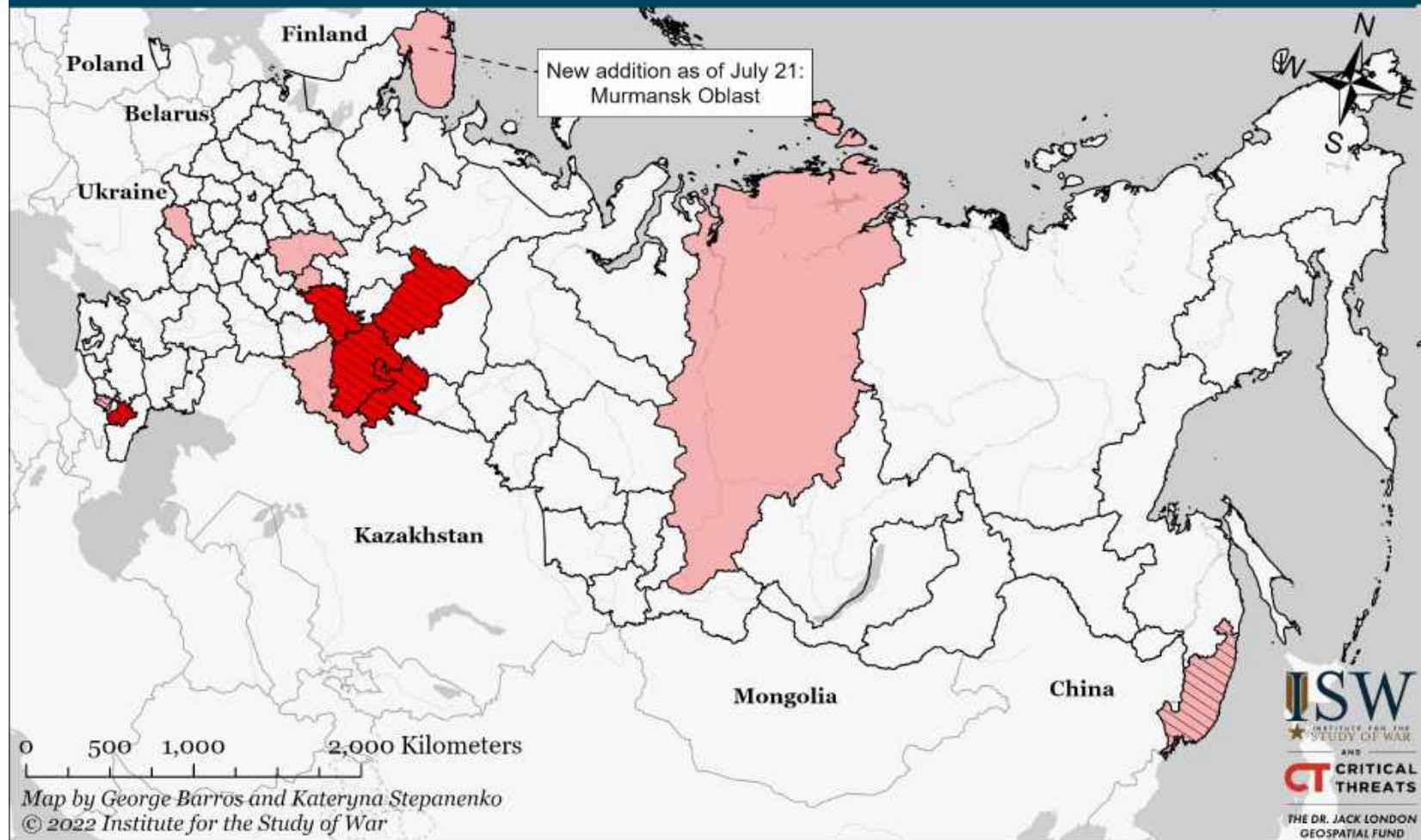
Note: ISW expanded Ukrainian counteroffensives to Lozove on the left bank of the Inhulets River on July 5. The Ukrainian General Staff reported on July 6 that Ukrainian forces repelled a Russian offensive in the direction of Lozove in Kherson Oblast, indicating that Ukrainian forces still maintain a position there. Russian Telegram Channel Rybar claimed that Ukrainian forces launched unsuccessful attacks on the Snihurivka-Lozove-Bila Krynytsya line on July 4. Ukraine's Southern Operational Command stated on July 5 that Ukrainian forces repelled a Russian platoon counterattack in the Lozove area, indicating that Ukrainian forces are in Lozove. Ukrainian combat footage posted in mid-June showed Ukrainian forces shelling Russian positions near Lozove. NASA FIRMS data for July 5 shows heat anomaly concentrations south of Lozove consistent with Ukraine's Southern Operational Command report. We will update our maps as we collect and confirm more information.





Confirmed Russian Regions (Federal Subjects) Generating "Volunteer" Units to Fight in Ukraine as of July 23, 2022



 Federal Subject Contributing or Generating a Unit	 Unit Deployed to a Training Ground before Deployment to Ukraine
 Federal Subject Contributing or Generating Multiple Units	 Unit Deployed to Ukraine

Confirmed Russian Regions (Federal Subjects) Generating "Volunteer" Units to Fight in Ukraine as of July 21, 2022



 Federal Subject Contributing or Generating a Unit	 Unit Deployed to a Training Ground before Deployment to Ukraine
 Federal Subject Contributing or Generating Multiple Units	 Unit Deployed to Ukraine