

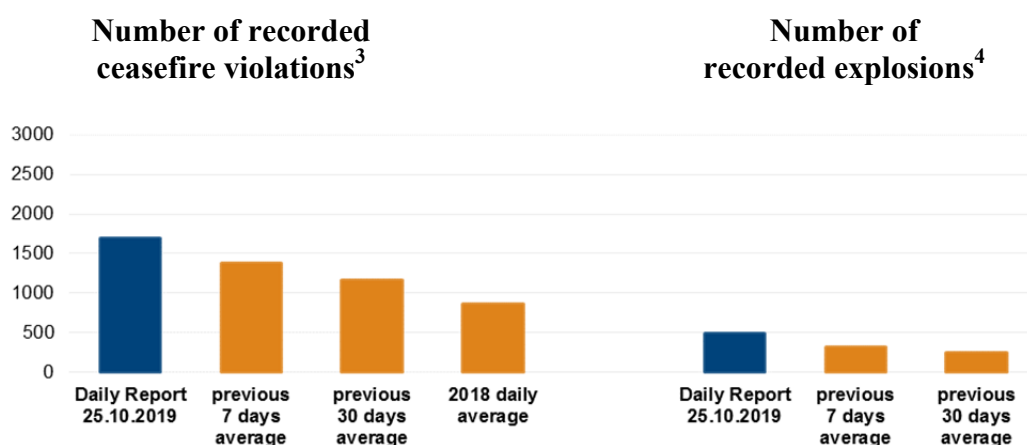
Daily Report 253/2019

25 October 2019¹

Summary

- Compared with the previous reporting period, the SMM recorded more ceasefire violations in both Donetsk and Luhansk regions.
- The Mission saw damage from small-arms fire to a functioning school in non-government-controlled Zolote-5/Mykhailivka.
- Inside the Stanytsia Luhanska disengagement area, the Mission continued to observe reconstruction works of the broken section of the bridge.
- Inside the Zolote and Petrivske disengagement areas, the SMM observed military presence and hardware. The SMM recorded a ceasefire violation inside the Petrivske disengagement area.
- The SMM saw for the first time about 1,000 anti-tank mines (assessed as not recent) along the eastern edge of government-controlled Vodiane.
- The SMM monitored adherence to the ceasefire to facilitate the operation of and repairs to critical civilian infrastructure, including power lines on both sides of the contact line.
- Restrictions of the SMM's freedom of movement continued, including at checkpoints near non-government-controlled Zaichenko and Bezimenne.

Ceasefire violations²



¹ Based on information from the Monitoring Teams as of 19:30, 24 October 2019. All times are in Eastern European Summer Time.

² For a complete breakdown of ceasefire violations, please see the annexed table.

³ Including explosions.

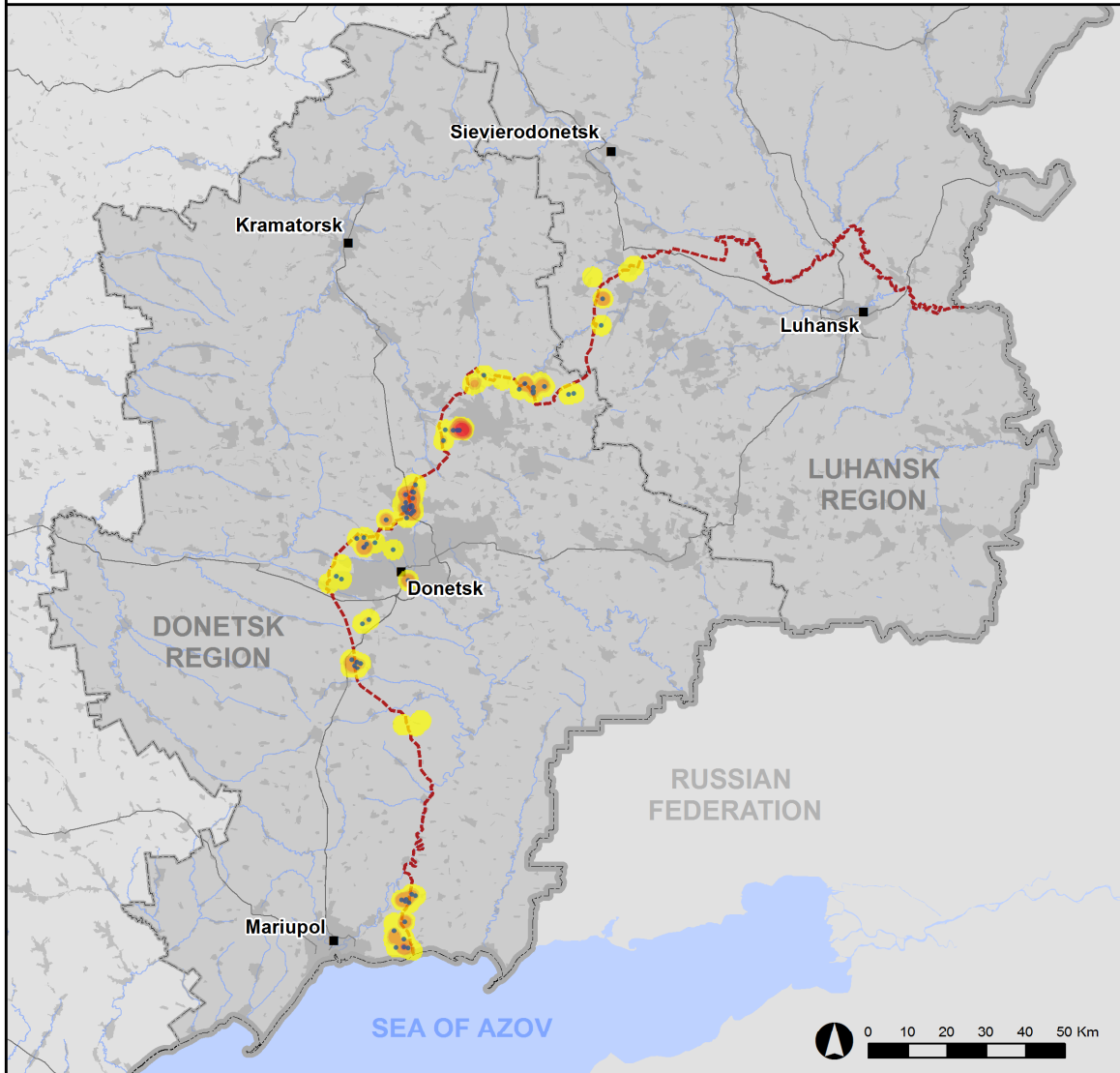
⁴ Including from unidentified weapons.

Map of recorded ceasefire violations

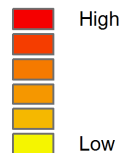


Organization for Security and
Co-operation in Europe
Special Monitoring Mission to Ukraine

Ceasefire violations observed by the SMM 24 October 2019



Ceasefire violation concentration



- Explosion
- Settlement
- Estimated line of contact

Sources: Administrative Boundaries - OCHA; Roads, Rivers - OpenStreetMap; Sea - VLIZ (2005). IHO Sea Areas; Other - OSCE.

Coordinate System: WGS 1984 UTM Zone 37N

This map is provided for illustrative purposes only. Its content is not warranted to be error-free and does not imply endorsement or acceptance by the OSCE SMM.

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Created: 25/10/2019

In Donetsk region, the SMM recorded more ceasefire violations, including more explosions (485), compared with the [previous reporting period](#) (245 explosions). More than half of the ceasefire violations were recorded at westerly directions of Horlivka (non-government-controlled, 39km north-east of Donetsk), at southerly directions of Svitlodarsk (government-controlled, 57km north-east of Donetsk) and at easterly and southerly directions of Avdiivka (government-controlled, 17km north of Donetsk), including outgoing explosions of artillery rounds.

In Luhansk region, the Mission recorded more ceasefire violations (about 60), including, however, fewer explosions (five), compared with the [previous reporting period](#) (15 explosions). The majority of ceasefire violations were recorded in areas south-west of Pervomaisk (non-government-controlled, 58km west of Luhansk), where also four explosions were recorded (see below).

Damage from small-arms fire to a functioning school in Zolote-5/Mykhailivka

On the south-eastern edge of Zolote-5/Mykhailivka (non-government-controlled, 58km west of Luhansk), on Myru Street, the SMM [again](#) saw damage to a three-storey functioning school building, located less than 1.5km from the contact line. On the ground floor, the SMM saw a bullet hole in a north-facing window, assessed as caused by a bullet (probable 7.62mm calibre) and a scratch in the wooden door opposite the window, assessed as the ricochet of the bullet (all assessed as fresh). A member of the school staff (woman, aged 40) told the SMM that she had been in the canteen when she heard small-arms fire in the early morning of 23 October.

Disengagement areas near Stanytsia Luhanska, Zolote and Petrivske⁵

Inside the **disengagement area near Stanytsia Luhanska** (government-controlled, 16km north-east of Luhansk), the SMM saw workers from government-controlled areas clearing vegetation on the eastern side of the road, about 500m north of the broken section of the bridge, preparing a cast and pouring concrete into the cast of the northern-most bridge pillar.

Also inside the disengagement area, the SMM observed five members of the armed formations (one wearing an armband with “JCCC” written on it) clearing vegetation just west of the shelter of an international humanitarian organization and workers from non-government-controlled areas installing lights on top of the metal section of the bridge. The SMM saw at least five members of the armed formations (wearing armbands with “JCCC” written on them) between the checkpoint of the armed formations and the southern edge of the broken section of the bridge.

On 22 October, inside the **disengagement area near Zolote** (government-controlled, 60km west of Luhansk), an SMM mini-unmanned aerial vehicle (UAV) spotted ongoing construction to a [previously reported](#) position, consisting of two bunkers connected by a trench, on the eastern shoulder of road T-1316, about 40m south of the area’s northern edge. It also spotted at least seven Ukrainian Armed Forces personnel nearby. About 150m south-south-east, the UAV spotted a burned area of about 20,000m² assessed as the result of a controlled burn. On the southern edge of Katerynivka (government-controlled, 64km west of Luhansk), inside the disengagement area, the UAV spotted a probable combat reconnaissance

⁵ Disengagement is foreseen in the [Framework Decision of the Trilateral Contact Group relating to disengagement of forces and hardware](#) of 21 September 2016.

vehicle (BRM-1K) in the yard of a house, and another house with trenches and firing positions behind it (and a Ukrainian Armed Forces personnel in its yard). On 24 October, the SMM saw eight Ukrainian Armed Forces personnel clearing and burning vegetation in areas on both sides of road T-1316, about 400m south of the disengagement area's northern edge.

On 22 October, outside the disengagement area near Zolote, about 500m east-north-east of the checkpoint of the Ukrainian Armed Forces on the northern edge of the disengagement area, a mini-UAV spotted Ukrainian Armed Forces personnel working on the extension of an existing trench. In Katerynivka, about 400m south-west of the disengagement area's north-western edge, the UAV spotted a civilian house with trenches and an active military position in its yard.

On the night of 23-24 October, the SMM camera on the northern edge of Popasna (government-controlled, 69km west of Luhansk) recorded a projectile in flight at an assessed range of 2-4km east, assessed as outside the disengagement area but within its 5km periphery. On 24 October, positioned on the north-eastern edge of Zolote-5/Mykhailivka, the SMM heard a shot of small-arms fire at an assessed range of 1-2km west, unable to be assessed whether inside or outside the disengagement area. On the same day, positioned on the north-eastern edge of Zolote-5/Mykhailivka and on the western edge of Pervomaisk, the SMM heard 60 ceasefire violations (including four undetermined explosions), all assessed as outside the disengagement area but within its 5km periphery.

On 21 October, inside the **disengagement area near Petrivske** (non-government-controlled, 41km south of Donetsk), an SMM mini-UAV spotted eight people, assessed as Ukrainian Armed Forces personnel, in two previously observed positions, both about 500m south of the area's northern edge and about 700m and 2km east of its western edge, respectively. The UAV also spotted an infantry fighting vehicle (IFV) and two people, assessed as Ukrainian Armed Forces personnel, in a treeline about 600m south of the latter position.

Outside the Petrivske disengagement area, on 21 October, the Mission saw Ukrainian Armed Forces personnel installing a 25m-high metal construction (tower) with a camera on its top, on the northern edge of a road leading from Bohdanivka (government-controlled, 41km south-west of Donetsk) to Viktorivka (non-government-controlled, 42km south-west of Donetsk). On 24 October, it also saw that two [previously observed](#) checkpoints of the armed formations, one on the road from Styla (non-government-controlled, 34km south of Donetsk) to Petrivske and one at the northern entrance to Petrivske, were not present.

On 24 October, positioned about 2km east-north-east of Bohdanivka the SMM heard a burst of small-arms fire at an assessed range of 1km south-east, assessed as inside the disengagement area near Petrivske. On the same day, positioned in and about 2km north of Petrivske, the SMM heard five shots of small-arms fire, assessed as outside the disengagement area but within its 5km periphery.

Withdrawal of weapons

The SMM continued to monitor the withdrawal of weapons in implementation of the Memorandum and the Package of Measures and its Addendum.

The Mission observed a weapon in violation of withdrawal lines in a residential area in Semyhiria (government-controlled, 58km north-east of Donetsk) (for further details, see the table below).

Indications of military and military-type presence in the security zone⁶

The SMM observed military and military-type presence in the security zone on both sides of the contact line, including an armoured combat vehicle in a residential area in Zolote-4/Rodina (government-controlled, 59km west of Luhansk) (for further details, see the table below).

Presence of mines near Vodiane and unexploded ordnance (UXO) in Donetsk city

On 23 October, an SMM mid-range UAV [again](#) spotted 21 anti-tank mines (TM-62) laid across road T-0519 about 2km north of Vodiane (government-controlled, 94km south of Donetsk). The UAV also spotted for the first time at least 1,000 anti-tank mines (TM-62) laid in a field in two rows along the eastern edge of Vodiane (assessed as not recent). About 5km east of Talakivka (government-controlled, 90km south of Donetsk), the same UAV also spotted 11 [previously reported](#) anti-tank mines (TM-62) laid across a road leading to Pikuzy (formerly Kominternove, non-government-controlled, 92km south of Donetsk). About 200m east of the aforementioned mines, the UAV [again](#) spotted four anti-tank mines (TM-62) laid on the same road as well as a total of 40 previously reported anti-tank mines (TM-62) laid in fields north and south of the said road (for previous observations in the area, see [SMM Daily Report 26 September 2019](#)).

On 23 October, on a 1.5km-long stretch of road on Stratonavtiv Street in the Kyivskiyi district of Donetsk city (non-government-controlled), the SMM saw for the first time an object assessed as a possible multiple launch rocket system (MLRS) (BM-21 *Grad*, 122mm) rocket embedded in the ground on the northern edge of the road and again saw three pieces of UXO: three Grad-type rockets (one of which had a wooden stick with red material next to it), all close to residential houses and assessed as not recent. About 1.5km south-west of the previous UXO, the SMM again saw two pieces of UXO, assessed as MLRS rockets close to residential houses on Marshala Zhukova Avenue in the Oktiabrskiyi micro-district on the north-western edge of Donetsk city. About 2km east and 2.5km east-north-east of the previous UXO respectively, on Artemivska Street, the SMM again saw a piece of an UXO assessed as a MLRS rocket and saw for the first time an UXO assessed as a possible MLRS (BM-21) rocket.

SMM facilitation of operation of and repairs to civilian infrastructure

The SMM monitored adherence to the ceasefire to facilitate repairs to power lines near Pisky (government-controlled, 11km north-west of Donetsk), near Vesele (government-controlled, 21km north of Donetsk), near Pervomaisk, near the entry-exit checkpoint near Marinka (government-controlled, 23km south-west of Donetsk) and to power lines servicing the Petrivske pumping station near Artema (government-controlled, 26km north of Luhansk). The SMM also monitored adherence to the ceasefire to facilitate: the maintenance of the Phenol Sludge Reservoir near Zalizne (formerly Artemove, government-controlled, 42km north-east of Donetsk), an assessment of power lines near Holmivskiyi (non-government-controlled, 49km north-east of Donetsk), the drilling of wells near Raivka (non-government-controlled, 16km north-west of Luhansk) and the transportation of spare parts for telecommunications equipment from Luhansk city (non-government-controlled) to Horlivka.

⁶ The hardware mentioned in this section is not proscribed by the provisions of the Minsk agreements on the withdrawal of weapons.

The Mission continued to facilitate the operation of the Donetsk Filtration Station (DFS) (15km north of Donetsk) and to monitor the security situation in the area of the pumping station near Vasylivka (non-government-controlled, 20km north of Donetsk). The SMM camera at the DFS recorded ceasefire violations near the Station (see table below).

Trucks marked “Humanitarian Aid from the Russian Federation” in Donetsk and Luhansk regions

On 24 October, the SMM saw 24 trucks (22 with Russian Federation licence plates and the marking “Humanitarian Aid from the Russian Federation” on them and two with “DPR” plates) and five vehicles of the armed formations driving in a north-westerly direction on a road on the southern edge of Kuteinykove (non-government-controlled, 42km south-east of Donetsk). On the same day, the SMM also saw eight trucks marked “Humanitarian Aid from the Russian Federation” in a compound of the armed formations in Luhansk city.

Border areas not under government control

While at a border crossing point near Uspenka (73km south-east of Donetsk) for one hour and 45 minutes, the SMM saw 21 cars (ten with Russian Federation, one with Georgian and one with Azerbaijani licence plates, and nine with “DPR” plates) and 36 pedestrians (20 women and 16 men) entering Ukraine and 26 pedestrians (18 women and eight men) exiting Ukraine.

The SMM continued monitoring in Kherson, Odessa, Lviv, Ivano-Frankivsk, Kharkiv, Dnipro, Chernivtsi and Kyiv.

***Restrictions of the SMM’s freedom of movement or other impediments to fulfilment of its mandate**

The SMM’s monitoring and freedom of movement are restricted by security hazards and threats, including risks posed by mines, UXO and other impediments – which vary from day to day. The SMM’s mandate provides for safe and secure access throughout Ukraine. All signatories of the Package of Measures have agreed on the need for this safe and secure access, that restriction of the SMM’s freedom of movement constitutes a violation, and on the need for rapid response to these violations. They have also agreed that the JCCC should contribute to such response and co-ordinate mine clearance. Nonetheless, the armed formations in parts of Donetsk and Luhansk regions frequently deny the SMM access to areas adjacent to Ukraine’s border outside control of the Government (for example, see [SMM Daily Report 23 October 2019](#)). The SMM’s operations in Donetsk and Luhansk regions remain restricted following [the fatal incident of 23 April 2017 near Pryshyb](#); these restrictions continued to limit the Mission’s observations.

Denials:

- At a checkpoint north of Zaichenko (non-government-controlled, 93km south of Donetsk), two armed members of the armed formations [again](#) denied the SMM passage towards Sakhanka (non-government-controlled, 97km south of Donetsk), citing “demining activities”.
- At a checkpoint west of Bezimmenne (non-government-controlled, 100km south of Donetsk), an armed member of the armed formations [again](#) denied the SMM passage without providing a justification for the denial.

Regular restrictions related to disengagement areas and mines/UXO:

- The sides continued to deny the SMM full access, as well as the ability to travel certain roads previously identified as important for effective monitoring by the Mission and for civilians' movement, through failure to conduct comprehensive clearance of mines, UXO and other obstacles.

Delay:

- On 19 October, at a checkpoint west of Verkhnohyrokiivske (formerly Oktiabr, non-government-controlled, 85km south of Donetsk), a member of the armed formations [again](#) allowed the SMM to proceed only after about 20 minutes of waiting.

Other impediments:

- On 22 October, an SMM long-range UAV experienced signal interference, assessed as due to probable jamming, while flying between Stepanivka (government-controlled 54km north of Donetsk) and Znamianka (government-controlled, 36km north-west of Luhansk).⁷
- On 24 October, an SMM mini-UAV experienced signal interference, assessed as due to probable jamming, while flying over Petrivske (non-government controlled, 41km south of Donetsk).
- On 24 October, an SMM mini-UAV experienced signal interference, assessed as due to probable jamming, while flying over areas near Styla (non-government-controlled, 34km south of Donetsk).

Table of weapons

Weapons in violation of the withdrawal lines

Date	No. of weapons	Type of weapons	Location	Source of observation
Government-controlled areas				
22/10/2019	1	Surface-to-air missile system (9K35 <i>Strela-10</i>)	In a residential area in Semyhiria	Long-range UAV

⁷ The interference could have originated from anywhere within the radius of kilometres from the UAV's position.

Table of indications of military and military-type presence in the security zone⁸

Date	No.	Type	Location	Source of observation
Government-controlled areas				
22/10/2019	2	Armoured combat vehicle	Near Svitlodarsk	Long-range UAV
	3	Armoured combat vehicle	Near Orikhove (57km north-west of Luhansk)	
	8	Armoured combat vehicle	Near Krymske (42km north-west of Luhansk)	
	2	Infantry fighting vehicle (BMP-1)		
	2	Armoured combat vehicle	Near Lopaskyne (23km north-west of Luhansk)	
	1	Armoured personnel carrier (BTR variant)	In Shchastia (20km north of Luhansk)	
	1	Armoured combat vehicle		
	2	Armoured personnel carrier(BTR variant)	Near Pishchane (22km north of Luhansk)	
	2	Armoured combat vehicle	Near Malynove (19km north-east of Luhansk)	
4	Armoured combat vehicle (a BTR variant and three undetermined)	In and near Stanytsia Luhanska, one near a residential building		
22/10/2019	1	Mine resistant ambush protected vehicle (MRAP KrAZ Cougar)	Between the northern edge of the Zolote disengagement area and the checkpoint of the Ukrainian Armed Forces (about 300m north of its northern edge)	Mini UAV
	1	Trench digger (PZM-2)		
	1	Armoured combat vehicle	In a residential area in Zolote-4/Rodina	
	2	Armoured combat vehicle	At the checkpoint of the Ukrainian Armed Forces (about 300m north of the northern edge of the Zolote disengagement area)	
	1	Armoured reconnaissance vehicle (BRDM-2)		
-	Wooden logs and recently laid sandbags in the yard and in front of a house, as well as three trenches nearby undergoing maintenance.	In Zolote-4/Rodina		
24/10/2019	1	Infantry fighting vehicle (BMP-1)	In the yard of an abandoned house in Bohdanivka	Patrol
Non-government-controlled areas				
22/10/2019	3	Armoured combat vehicle	Near Sokilnyky (38km north-west of Luhansk)	Long-range UAV
22/10/2019	1	Infantry fighting vehicle (BMP-1)	Near Vesela Hora (16km north of Luhansk)	
23/10/2019	1	Probable combat engineering vehicle	Near Styła	Mini UAV
24/10/2019	-	A recently dug trench	Near the Kargil plant in Kreminets (16km south-west of Donetsk)	Patrol

⁸ The hardware mentioned in this section is not proscribed by the provisions of the Minsk agreements on the withdrawal of weapons.

Table of ceasefire violations as of 24 October 2019⁹

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera in Berezove (government-controlled, 31km SW of Donetsk)	1-2km SE	Recorded	1	Projectile	WSW to ENE	N/K	23-Oct, 19:59
	1-2km SE	Recorded	2	Projectile	WSW to ENE	N/K	23-Oct, 20:01
	1-2km ESE	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 20:01
	1-2km SE	Recorded	4	Projectile	WSW to ENE	N/K	23-Oct, 20:02
	1-2km SE	Recorded	1	Projectile	WSW to ENE	N/K	23-Oct, 20:25
	1-2km SE	Recorded	1	Projectile	W to E	N/K	23-Oct, 21:59
	1-2km SE	Recorded	3	Projectile	W to E	N/K	23-Oct, 22:00
	3-5km ESE	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 22:00
	1-2km SE	Recorded	1	Projectile	W to E	N/K	23-Oct, 22:01
	1-2km SE	Recorded	4	Projectile	W to E	N/K	23-Oct, 22:01
	3-5km ESE	Recorded	4	Explosion	Impact, subsequent to previous event	N/K	23-Oct, 22:01
	1-2km SE	Recorded	1	Projectile	W to E	N/K	23-Oct, 22:02
	1-2km SE	Recorded	2	Projectile	W to E	N/K	23-Oct, 22:03
	1-2km SE	Recorded	1	Projectile	W to E	N/K	23-Oct, 22:03
	3-5km ESE	Recorded	1	Explosion	Impact, subsequent to previous event	N/K	23-Oct, 22:03
	1-2km SE	Recorded	1	Projectile	W to E	N/K	23-Oct, 22:04
	1-2km SE	Recorded	1	Projectile	W to E	N/K	23-Oct, 22:04
	3-5km ESE	Recorded	1	Explosion	Impact, subsequent to previous event	N/K	23-Oct, 22:04
	1-2km SE	Recorded	1	Projectile	W to E	N/K	23-Oct, 22:05
	3-5km ESE	Recorded	1	Explosion	Impact, subsequent to previous event	N/K	23-Oct, 22:05
	1-2km SE	Recorded	1	Projectile	W to E	N/K	23-Oct, 22:06
	3-5km ESE	Recorded	1	Explosion	Impact, subsequent to previous event	N/K	23-Oct, 22:06
	3-5km ESE	Recorded	1	Explosion		N/K	23-Oct, 22:06
	2-4km SE	Recorded	1	Projectile	WSW to ENE	N/K	23-Oct, 22:08
	2-4km SSE	Recorded	2	Projectile	WSW to ENE	N/K	23-Oct, 22:09
	2-4km SSE	Recorded	2	Projectile	W to E	N/K	23-Oct, 22:11
	2-4km SSE	Recorded	1	Projectile	W to E	N/K	23-Oct, 22:12
	2-4km SSE	Recorded	1	Projectile	W to E	N/K	23-Oct, 22:12
	3-5km SE	Recorded	1	Explosion	Impact, subsequent to previous event	N/K	23-Oct, 22:12
	2-4km SE	Recorded	1	Muzzle flash		N/K	23-Oct, 22:13
	2-4km SE	Recorded	1	Projectile	W to E	N/K	23-Oct, 22:13
	3-5km SE	Recorded	1	Explosion	Impact, subsequent to previous event	N/K	23-Oct, 22:13
	2-4km SE	Recorded	1	Projectile	W to E	N/K	23-Oct, 22:14
3-5km SE	Recorded	1	Explosion	Impact, subsequent to previous event	N/K	23-Oct, 22:14	
2-4km SSE	Recorded	1	Projectile	WSW to ENE	N/K	23-Oct, 22:14	

⁹ The table only includes ceasefire violations directly observed by the SMM and it may include those also assessed to be live-fire exercises, controlled detonations, etc. Details provided – in terms of distance, direction, weapons-type, etc. – are based on assessments provided by monitors on the ground, and are not always necessarily precise. When information is not known (indicated with an “N/K”), the SMM was unable to ascertain such information due to distance, weather conditions and/or other considerations. Ceasefire violations recorded by more than one patrol and assessed to be the same are entered only once.

	2-4km SSE	Recorded	1	Projectile	WSW to ENE	N/K	23-Oct, 22:15
	2-4km SE	Recorded	1	Muzzle flash		N/K	23-Oct, 22:16
	2-4km SE	Recorded	1	Projectile	WSW to ENE	N/K	23-Oct, 22:16
	2-4km SE	Recorded	5	Projectile	SW to NE	N/K	23-Oct, 22:18
	2-4km SSE	Recorded	1	Projectile	WSW to ENE	N/K	23-Oct, 22:20
	2-4km ESE	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 22:21
	2-4km SSE	Recorded	4	Projectile	WSW to ENE	N/K	23-Oct, 22:24
	2-4km SE	Recorded	1	Projectile	WSW to ENE	N/K	23-Oct, 22:24
	2-4km SE	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 22:24
	2-4km SSE	Recorded	3	Projectile	WSW to ENE	N/K	23-Oct, 22:25
	2-4km SSE	Recorded	1	Projectile	WSW to ENE	N/K	23-Oct, 22:28
	2-4km SSE	Recorded	1	Projectile	WSW to ENE	N/K	23-Oct, 22:29
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	100-500m S	Recorded	1	Projectile	WNW to ESE	N/K	23-Oct, 20:13
	100-500m S	Recorded	3	Projectile	WNW to ESE	N/K	23-Oct, 20:14
	100-500m S	Recorded	3	Projectile	WNW to ESE	N/K	23-Oct, 20:25
	0.5-1km SSW	Recorded	8	Projectile	ESE to WNW	N/K	23-Oct, 20:30
	0.5-1km SSW	Recorded	1	Projectile	ESE to WNW	N/K	23-Oct, 20:31
	0.5-1km SSW	Recorded	5	Projectile	ESE to WNW	N/K	23-Oct, 20:32
	0.5-1km S	Recorded	1	Projectile	WNW to ESE	N/K	23-Oct, 20:38
	0.5-1km SSE	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 20:38
	100-500m S	Recorded	1	Projectile	WNW to ESE	N/K	23-Oct, 20:44
	0.5-1km S	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 20:44
	100-500m S	Recorded	1	Projectile	WNW to ESE	N/K	23-Oct, 20:45
	100-500m S	Recorded	2	Projectile	NW to SE	N/K	23-Oct, 20:56
	100-500m S	Recorded	1	Projectile	NW to SE	N/K	23-Oct, 20:57
	400-600m SSE	Recorded	1	Explosion	Impact, subsequent to previous event	N/K	23-Oct, 20:57
	100-500m S	Recorded	1	Projectile	WNW to ESE	N/K	23-Oct, 21:24
	0.5-1km S	Recorded	1	Muzzle flash		N/K	23-Oct, 21:24
	0.5-1km S	Recorded	1	Projectile	N to S	N/K	23-Oct, 21:24
	0.5-1km SSW	Recorded	3	Muzzle flash		N/K	23-Oct, 21:29
	100-500m S	Recorded	1	Projectile	NW to SE	N/K	23-Oct, 21:30
	0.5-1km S	Recorded	1	Projectile	NW to SE	N/K	23-Oct, 21:30
	300-600m SSW	Recorded	1	Muzzle flash		N/K	23-Oct, 21:30
	100-500m S	Recorded	1	Projectile	NNW to SSE	N/K	23-Oct, 21:30
	300-600m SSW	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 21:34
	300-600m SSW	Recorded	1	Projectile	WNW to ESE	N/K	23-Oct, 21:34
	300-600m SSW	Recorded	3	Muzzle flash		N/K	23-Oct, 21:37
	300-600m SSW	Recorded	2	Projectile	NW to SE	N/K	23-Oct, 21:38
	300-600m SSW	Recorded	2	Explosion	Undetermined	N/K	23-Oct, 21:39
	300-600m SSW	Recorded	9	Projectile	NW to SE	N/K	23-Oct, 21:39
	300-600m SSW	Recorded	2	Explosion	Undetermined	N/K	23-Oct, 21:40
	300-600m SSW	Recorded	9	Projectile	NW to SE	N/K	23-Oct, 21:40
	300-600m SSW	Recorded	1	Projectile	W to E	N/K	23-Oct, 21:41
	200-500m SSE	Recorded	2	Explosion	Undetermined	N/K	23-Oct, 21:46
	300-600m SSW	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 21:46
	200-500m SSE	Recorded	1	Projectile	W to E	N/K	23-Oct, 22:27
300-600m SSW	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 22:27	
300-600m SSW	Recorded	1	Projectile	W to E	N/K	23-Oct, 22:27	
300-600m SSW	Recorded	2	Explosion	Undetermined	N/K	23-Oct, 22:31	
300-600m SSW	Recorded	1	Projectile	NW to SE	N/K	23-Oct, 22:31	
100-300m S	Recorded	1	Projectile	WNW to ESE	N/K	23-Oct, 22:32	
300-600m SSW	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 22:32	
SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk)	3-5km ESE	Recorded	2	Explosion	Airburst	N/K	23-Oct, 20:20
	2-4km ESE	Recorded	1	Projectile	WSW to ENE	N/K	24-Oct, 02:21
	2-4km ESE	Recorded	1	Explosion	Airburst, subsequent to previous event	N/K	24-Oct, 02:21

SMM camera in Krasnohorivka (government-controlled, 21km W of Donetsk)	3-5km SE	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 21:10
	3-5km SE	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 21:15
	3-5km E	Recorded	1	Projectile	N to S	N/K	23-Oct, 21:24
SMM camera E of Lomakyne (government-controlled, 90km S of Donetsk)	2-4km ENE	Recorded	1	Projectile	WNW to ESE	N/K	23-Oct, 18:58
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	3-5km ENE	Recorded	1	Projectile	N to S	N/K	23-Oct, 21:33
	3-5km ENE	Recorded	1	Muzzle flash		N/K	23-Oct, 22:33
	3-5km ENE	Recorded	7	Projectile	N to S	N/K	23-Oct, 22:33
	3-5km ENE	Recorded	2	Projectile	N to S	N/K	23-Oct, 22:54
	2-4km ENE	Recorded	6	Projectile	N to S	N/K	24-Oct, 01:21
	2-4km ENE	Recorded	3	Projectile	N to S	N/K	24-Oct, 01:22
SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)	2-4km NNE	Recorded	1	Projectile	W to E	N/K	24-Oct, 01:51
	2-4km NNE	Recorded	2	Projectile	WSW to ENE	N/K	24-Oct, 01:51
SMM camera at entry-exit checkpoint in Pyshchevyk (government-controlled, 84km S of Donetsk)	2-4km SSE	Recorded	8	Projectile	W to E	N/K	23-Oct, 18:31
	2-4km SSE	Recorded	10	Projectile	W to E	N/K	23-Oct, 18:53
	2-4km S	Recorded	8	Projectile	W to E	N/K	23-Oct, 19:20
	2-4km S	Recorded	1	Projectile	W to E	N/K	23-Oct, 19:25
	2-4km S	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 19:25
	2-4km S	Recorded	8	Projectile	W to E	N/K	23-Oct, 19:27
	2-4km S	Recorded	1	Projectile	W to E	N/K	23-Oct, 19:28
	2-4km S	Recorded	5	Projectile	W to E	N/K	23-Oct, 19:29
	2-4km S	Recorded	1	Projectile	W to E	N/K	23-Oct, 20:02
	2-4km S	Recorded	1	Projectile	W to E	N/K	23-Oct, 20:04
	2-4km S	Recorded	11	Projectile	W to E	N/K	23-Oct, 21:28
	2-4km SSE	Recorded	2	Projectile	W to E	N/K	23-Oct, 22:20
	2-4km SSE	Recorded	1	Projectile	W to E	N/K	23-Oct, 22:20
	2-4km SSE	Recorded	1	Explosion	Impact, subsequent to previous event	N/K	23-Oct, 22:20
	2-4km SSE	Recorded	2	Projectile	W to E	N/K	24-Oct, 01:38
	2-4km SSE	Recorded	1	Projectile	W to E	N/K	24-Oct, 01:38
	2-4km SSE	Recorded	1	Explosion	Airburst, subsequent to previous event	N/K	24-Oct, 01:38
	2-4km SSE	Recorded	2	Projectile	W to E	N/K	24-Oct, 01:38
	2-4km SSE	Recorded	2	Projectile	W to E	N/K	24-Oct, 01:39
	2-4km S	Recorded	1	Projectile	E to W	N/K	24-Oct, 03:03
2-4km SSE	Recorded	2	Projectile	W to E	N/K	24-Oct, 03:06	
SMM camera 1km SW of Shyrokyne (government-controlled, 100km S of Donetsk)	2-4km N	Recorded	3	Projectile	WNW to ESE	N/K	23-Oct, 20:00
	2-4km NE	Recorded	3	Projectile	ESE to WNW	N/K	23-Oct, 20:00
	2-4km N	Recorded	5	Projectile	WNW to ESE	N/K	23-Oct, 20:13
	2-4km NE	Recorded	2	Projectile	WNW to ESE	N/K	23-Oct, 20:13
	2-4km N	Recorded	4	Projectile	WNW to ESE	N/K	23-Oct, 20:26
	2-4km N	Recorded	1	Projectile	WNW to ESE	N/K	23-Oct, 20:29
	2-4km N	Recorded	1	Projectile	WNW to ESE	N/K	23-Oct, 20:30
	2-4km N	Recorded	1	Muzzle flash		N/K	23-Oct, 20:30
	2-4km N	Recorded	1	Projectile	WNW to ESE	N/K	23-Oct, 20:31
	2-4km N	Recorded	2	Projectile	WNW to ESE	N/K	23-Oct, 20:32
2-4km N	Recorded	6	Projectile	WNW to ESE	N/K	23-Oct, 20:33	

	2-4km N	Recorded	1	Projectile	WNW to ESE	N/K	23-Oct, 20:34
	2-4km N	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 20:37
	2-4km N	Recorded	9	Projectile	WNW to ESE	N/K	23-Oct, 20:37
	2-4km N	Recorded	6	Projectile	WNW to ESE	N/K	23-Oct, 20:39
	2-4km N	Recorded	1	Projectile	WSW to ENE	N/K	23-Oct, 21:06
	2-4km N	Recorded	4	Projectile	WNW to ESE	N/K	23-Oct, 21:16
	2-4km N	Recorded	14	Projectile	WNW to ESE	N/K	23-Oct, 21:17
	2-4km N	Recorded	8	Projectile	WNW to ESE	N/K	23-Oct, 21:25
	2-4km N	Recorded	1	Projectile	WSW to ENE	N/K	23-Oct, 21:25
	2-4km N	Recorded	3	Projectile	WNW to ESE	N/K	23-Oct, 21:26
	2-4km N	Recorded	1	Muzzle flash		N/K	23-Oct, 21:26
	2-4km N	Recorded	1	Projectile	WNW to ESE (subsequent to previous event)	N/K	23-Oct, 21:26
	2-4km NNE	Recorded	2	Explosion	Undetermined	N/K	23-Oct, 22:44
	2-4km NE	Recorded	3	Projectile	WNW to ESE	N/K	23-Oct, 23:22
	2-4km N	Recorded	1	Projectile	SSE to NNW	N/K	24-Oct, 02:21
SE edge of Avdiivka (government-controlled, 17km N of Donetsk)	1-2km E	Heard	4	Explosion	Outgoing	N/K	24-Oct, 09:01-09:21
	1-2km E	Heard	3	Shot		Small arms	24-Oct, 10:15
	2-3km SE	Heard	1	Explosion	Undetermined	N/K	24-Oct, 10:37-10:39
	2-3km SE	Heard	10	Shot		Small arms	24-Oct, 10:37-10:39
	2-3km SE	Heard	1	Explosion	Outgoing	N/K	24-Oct, 11:00
	4-6km SW	Heard	11	Explosion	Outgoing	Artillery (type N/K)	24-Oct, 12:40-12:50
	1-2km ESE	Heard	1	Explosion	Outgoing	N/K	24-Oct, 12:45
	4-6km SW	Heard	20	Explosion	Outgoing	Artillery (type N/K)	24-Oct, 12:40-13:00
	1-2km SE	Heard	8	Explosion	Outgoing	N/K	24-Oct, 13:20-13:24
1-2km ESE	Heard	3	Explosion	Outgoing	N/K	24-Oct, 14:38	
About 1.5km E of Avdiivka (government-controlled, 17km N of Donetsk)	2-3km ENE	Heard	2	Burst		HMG	24-Oct, 11:39-11:41
	2-3km SSE	Heard	2	Explosion	Outgoing	N/K	24-Oct, 11:39-11:41
	1-2km SSE	Heard	3	Shot		Small arms	24-Oct, 11:50
	2-3km SSE	Heard	5	Explosion	Outgoing	N/K	24-Oct, 12:00-12:28
	2-3km SSE	Heard	4	Explosion	Undetermined	N/K	24-Oct, 12:09
About 2km S of Donetsk city centre (non-government-controlled)	4-5km S	Heard	39	Explosion	Undetermined	N/K	24-Oct, 14:50-15:06
About 4km NW of Debaltseve (non-government-controlled, 58km NE of Donetsk)	3-4km NNW	Heard	2	Explosion	Undetermined	N/K	24-Oct, 13:04
	3-4km N	Heard	3	Explosion	Undetermined	N/K	24-Oct, 14:04
About 1km E of Kruta Balka (non-government-controlled, 16km N of)	2-3km NW	Heard	6	Explosion	Undetermined	N/K	24-Oct, 12:00-12:06
	2-3km NW	Heard	6	Explosion	Undetermined	N/K	24-Oct, 12:16-12:20

Donetsk)							
Oleksandrivka (non-government-controlled, 20km SW of Donetsk)	3-5km N	Heard	5	Explosion	Undetermined	N/K	24-Oct, 10:32
About 2km, WNW of Pisky (government-controlled, 11km NW of Donetsk)	1-2km S	Heard	1	Explosion	Undetermined	N/K	24-Oct, 09:12
	2-3km SW	Heard	4	Explosion	Undetermined	N/K	24-Oct, 10:32-10:46
	3-5km SE	Heard	5	Explosion	Undetermined	N/K	24-Oct, 10:32-10:46
	3-5km S	Heard	7	Explosion	Undetermined	N/K	24-Oct, 10:32-10:46
	3-5km S	Heard	11	Explosion	Undetermined	N/K	24-Oct, 10:57-11:15
	2-3km SW	Heard	2	Shot		Small arms	24-Oct, 10:57-11:15
	3-5km S	Heard	4	Explosion	Undetermined	N/K	24-Oct, 11:25-11:30
	2-3km SW	Heard	2	Shot		Small arms	24-Oct, 11:25-11:30
	3-5km S	Heard	13	Explosion	Undetermined	N/K	24-Oct, 11:51-12:14
	3-5km S	Heard	32	Explosion	Undetermined	N/K	24-Oct, 12:15-12:48
About 2.5km SW of Vesele (non-government-controlled, 9km NW of Donetsk)	3-4km W	Heard	4	Explosion	Undetermined	N/K	24-Oct, 13:20
	3-4km ESE	Heard	1	Explosion	Undetermined	N/K	24-Oct, 13:54
Petrivske (non-government-controlled, 41km S of Donetsk)	1km SSE	Heard	3	Shot	Assessed as outside the disengagement area	Small arms	24-Oct, 11:12
About 1km NW of Petrivske (non-government-controlled, 21km S of Donetsk)	4-6km NW	Heard	5	Explosion	Undetermined	N/K	24-Oct, 10:50-11:04
	4-6km NNW	Heard	8	Explosion	Undetermined	N/K	24-Oct, 11:09
About 2km N of Petrivske (non-government-controlled, 41km S of Donetsk)	1-2km SE	Heard	2	Shot	Assessed as outside the disengagement area	Small arms	24-Oct, 13:50
About 1km NW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	4-5km SW	Heard	2	Explosion	Undetermined	N/K	24-Oct, 09:11
	2-3km SW	Heard	3	Explosion	Undetermined	N/K	24-Oct, 09:16-09:20
	2-3km SW	Heard	3	Burst		Small arms	24-Oct, 09:21
	2-3km SW	Heard	1	Explosion	Undetermined	N/K	24-Oct, 09:33
	2-3km W	Heard	1	Burst		Small arms	24-Oct, 09:58
	2-3km NW	Heard	9	Shot		HMG	24-Oct, 10:10
	2-3km NW	Heard	3	Shot		Small arms	24-Oct, 10:16
	2-3km SW	Heard	4	Shot		Small arms	24-Oct, 10:22
	2-3km SW	Heard	1	Explosion	Undetermined	N/K	24-Oct, 10:36
	2-3km SW	Heard		Shot	Uncountable,	Small	24-Oct, 10:36

					overlapping	arms	
	2-3km SW	Heard	2	Shot		Small arms	24-Oct, 10:22
	2km SW	Heard	1	Explosion	Undetermined	N/K	24-Oct, 10:56
	2-3km NW	Heard	12	Burst		HMG	24-Oct, 13:50-13:54
	2-3km NW	Heard	16	Explosion	Undetermined	N/K	24-Oct, 13:50-13:54
	2-3km NW	Heard		Shot	Uncountable, overlapping	HMG	24-Oct, 13:56
	2-3km SW	Heard	12	Shot		HMG	24-Oct, 13:58
	2-3km SW	Heard		Shot	Uncountable, overlapping	HMG	24-Oct, 14:10-14:13
	2-3km SW	Heard	2	Explosion	Undetermined	N/K	24-Oct, 14:10-14:13
	2-3km SW	Heard	9	Shot		Small arms	24-Oct, 14:13-14:14
	3km SW	Heard	1	Explosion	Undetermined	N/K	24-Oct, 14:13-14:14
	2-3km NW	Heard	12	Shot		Small arms	24-Oct, 14:18
	2-3km SW	Heard		Shot	Uncountable, overlapping	Small arms	24-Oct, 14:36
	2-3km SW	Heard	5	Explosion	Undetermined	N/K	24-Oct, 14:36-14:38
About 2km ENE of Bohdaniivka (government-controlled, 41km SW of Donetsk)	1km SE	Heard	1	Burst	Assessed as inside the Petrivske disengagement area	Small arms	24-Oct, 09:30
About 1km NNW of Pyshchevyk (government-controlled, 84km south of Donetsk)	3-4km ESE	Heard	8	Burst		HMG	24-Oct, 10:44-10:46
	3-4km ESE	Heard	10	Explosion	Undetermined	N/K	24-Oct, 10:44-10:46
	4-5km ESE	Heard	3	Explosion	Undetermined	N/K	24-Oct, 11:08-11:09
About 2.5km SSE of Lomakyne (government-controlled, 93km S of Donetsk)	4-6km SE	Heard	1	Explosion	Undetermined	N/K	24-Oct, 11:10
About 1km SW of Lebedynske (government-controlled, 99km S of Donetsk)	4-6km ENE	Heard	4	Explosion	Undetermined	N/K	24-Oct, 11:07-11:10
About 2km SE of Lebedynske (government-controlled, 99km south of Donetsk)	3-4km N	Heard	9	Shot		Cannon 30 mm	24-Oct, 11:36-11:44
	3-4km N	Heard	7	Shot		Cannon 30 mm	24-Oct, 11:46-11:48
	2-3km N	Heard	1	Burst		HMG	24-Oct, 11:46-11:48
	2-3km N	Heard	7	Shot		Cannon 30 mm	24-Oct, 11:50-11:55
	4-6km N	Heard	2	Explosion	Undetermined	N/K	24-Oct, 11:50-11:55
	3-4km N	Heard	7	Shot		Small arms	24-Oct, 12:05-12:27
	4-6km N	Heard	3	Explosion	Undetermined	N/K	24-Oct, 12:05-12:27

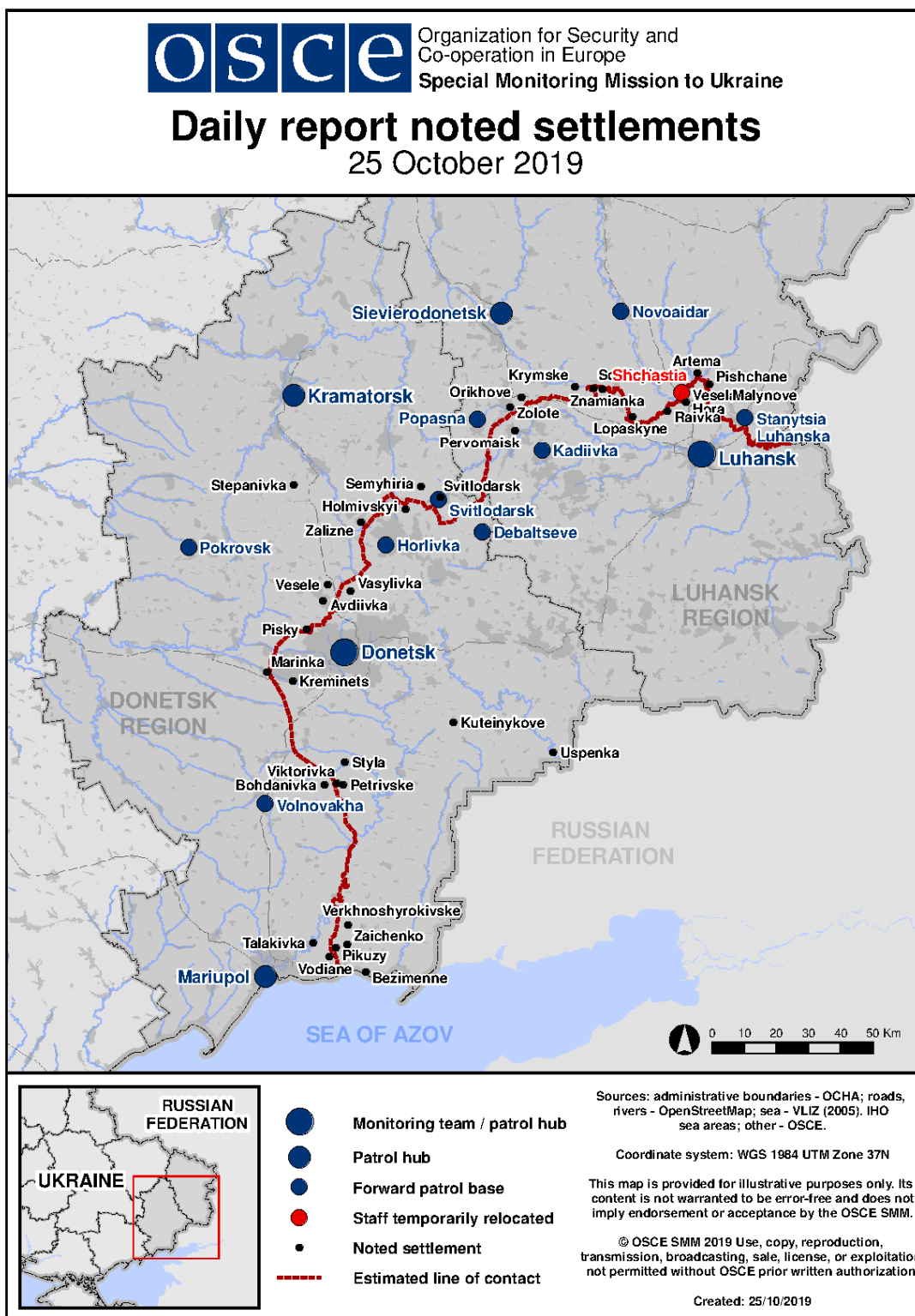
	4-6km N	Heard	2	Explosion	Undetermined	N/K	24-Oct, 12:27
About 1km NNE of Zaichenko (non-government-controlled, 93km south of Donetsk)	4-5km WSW	Heard	35	Explosion	Undetermined	N/K	24-Oct, 13:30-13:37
Horlivka (non-government-controlled, 39km NE of Donetsk)	1-2km W	Heard	36	Burst		Small arms	23-Oct, 19:58-20:05
	2-3km W	Heard	3	Explosion	Undetermined	N/K	23-Oct, 20:00
	2-3km W	Heard	8	Burst		HMG	23-Oct, 20:02-20:04
	2-3km W	Heard	1	Explosion	Undetermined	N/K	23-Oct, 20:03
	1-2km W	Heard	30	Burst		Small arms	23-Oct, 20:09-20:11
	2-3km W	Heard	20	Burst		HMG	23-Oct, 20:09-20:11
	2-3km W	Heard	3	Explosion	Undetermined	N/K	23-Oct, 20:11-20:13
	1-2km W	Heard	13	Burst		Small arms	23-Oct, 20:14
	2-3km W	Heard	3	Burst		HMG	23-Oct, 20:14
	2-3km W	Heard	2	Explosion	Undetermined	N/K	23-Oct, 20:16
	1-2km W	Heard	3	Burst		Small arms	23-Oct, 20:17
	2-3km W	Heard	1	Explosion	Undetermined	N/K	23-Oct, 20:18
	2-3km W	Heard	1	Explosion	Undetermined	N/K	23-Oct, 20:23
	2-3km W	Heard	5	Burst		HMG	23-Oct, 20:23
	1-2km W	Heard	10	Burst		Small arms	23-Oct, 20:24-20:25
	2-3km W	Heard	2	Burst		HMG	23-Oct, 20:27
	1-2km W	Heard	42	Burst		Small arms	23-Oct, 20:29-20:33
	2-4km W	Heard	2	Explosion	Undetermined	N/K	23-Oct, 20:33
	1-2km W	Heard	6	Burst		Small arms	23-Oct, 20:37-20:38
	2-4km W	Heard	10	Explosion	Undetermined	N/K	23-Oct, 20:42-20:46
	1-2km W	Heard	16	Shot		Small arms	23-Oct, 20:42
	1-2km W	Heard	69	Burst		Small arms	23-Oct, 20:43-20:47
	1-2km W	Heard	37	Burst		Small arms	23-Oct, 20:49-20:51
	1-2km W	Heard	7	Burst		Small arms	23-Oct, 21:09-21:10
	1-2km W	Heard	67	Burst		Small arms	23-Oct, 21:12-21:15
	2-4km W	Heard	3	Explosion	Undetermined	N/K	23-Oct, 21:13
	2-4km W	Heard	1	Explosion	Undetermined	N/K	23-Oct, 21:16
	1-2km W	Heard	19	Burst		Small arms	23-Oct, 21:19
	2-4km W	Heard	1	Explosion	Undetermined	N/K	23-Oct, 21:19
	2-4km W	Heard	1	Explosion	Undetermined	N/K	23-Oct, 21:22
	1-2km W	Heard	17	Burst		Small arms	23-Oct, 21:22
	2-4km W	Heard	1	Explosion	Undetermined	N/K	23-Oct, 21:23
1-2km W	Heard	17	Burst		Small arms	23-Oct, 21:24	
2-4km W	Heard	6	Explosion	Undetermined	N/K	23-Oct, 21:25-21:27	
2-3km W	Heard	7	Burst		Small arms	23-Oct, 21:26	

	3-5km W	Heard	3	Explosion	Undetermined	N/K	23-Oct, 21:28
	5-7km W	Heard	4	Explosion	Undetermined	N/K	23-Oct, 21:48
	2-3km W	Heard	14	Burst		Small arms	23-Oct, 21:29-21:30
	2-3km W	Heard	2	Burst		HMG	23-Oct, 21:30
	3-5km W	Heard	2	Explosion	Undetermined	N/K	23-Oct, 21:39
	2-3km W	Heard	9	Burst		Small arms	23-Oct, 21:39-21:40
	2-3km W	Heard	10	Burst		Small arms	23-Oct, 21:43
	3-5km W	Heard	1	Explosion	Undetermined	N/K	23-Oct, 21:45
	1-2km W	Heard	17	Shot		Small arms	23-Oct, 21:45-21:47
	2-3km W	Heard	17	Burst		Small arms	23-Oct, 21:47-21:49
	2-4km W	Heard	1	Explosion	Undetermined	N/K	23-Oct, 21:50
	2-3km WNW	Heard	64	Burst		Small arms	24-Oct, 00:35-00:37
	2-3km WNW	Heard	37	Burst		Small arms	24-Oct, 00:39-00:41
	2-3km WNW	Heard	10	Shot		Small arms	24-Oct, 00:39-00:40
	2-3km WNW	Heard	22	Burst		Small arms	24-Oct, 00:46-00:48
	2-4km W	Heard	3	Explosion	Undetermined	N/K	24-Oct, 03:12
	1-3km WNW	Heard	4	Burst		Small arms	24-Oct, 03:13
	2-4km W	Heard	8	Explosion	Undetermined	N/K	24-Oct, 03:14-03:15
	1-3km WNW	Heard	3	Burst		Small arms	24-Oct, 03:16
	1-3km WNW	Heard	10	Burst		Small arms	24-Oct, 03:19
	1-2km WNW	Heard	3	Shot		Small arms	24-Oct, 03:19
	1-3km WNW	Heard	4	Burst		Small arms	24-Oct, 03:26
	1-3km WNW	Heard	3	Burst		Small arms	24-Oct, 04:08
	1-2km W	Heard	46	Shot		Small arms	24-Oct, 10:42-10:49
	1-2km W	Heard	12	Burst		Small arms	24-Oct, 10:46-10:47
	6-8km WSW	Heard	9	Explosion		N/K	24-Oct, 17:06-17:08
Svitlodarsk (government-controlled, 57km NE of Donetsk)	3-5km S	Heard	1	Explosion	Undetermined	N/K	23-Oct, 18:45
	2-4km S	Heard	1	Explosion	Undetermined	N/K	23-Oct, 18:46
	3-4km SE	Heard	4	Burst		HMG	23-Oct, 18:50
	3-4km SE	Heard	3	Burst		HMG	23-Oct, 18:57
	3-4km SE	Heard	2	Burst		HMG	23-Oct, 19:00
	2-4km S	Heard	2	Explosion	Undetermined	N/K	23-Oct, 19:04
	2-4km SE	Heard	3	Burst		Small arms	23-Oct, 19:04
	3-5km SE	Heard	2	Explosion	Undetermined	N/K	23-Oct, 19:06
	3-5km SE	Heard	4	Explosion	Undetermined	N/K	23-Oct, 19:07
	2-3km SE	Heard	3	Burst		Small arms	23-Oct, 19:13
	4-6km SW	Heard	1	Explosion	Undetermined	N/K	23-Oct, 19:15
	2-3km SE	Heard	3	Burst		Small arms	23-Oct, 19:17
	2-3km SE	Heard	3	Burst		Small arms	23-Oct, 19:50
	4-5km S	Heard	1	Explosion	Undetermined	N/K	23-Oct, 20:04

	4-5km S	Heard	2	Explosion	Undetermined	N/K	23-Oct, 20:59
	3-5km S	Heard	5	Burst		HMG	23-Oct, 21:19-21:21
	2-4km SW	Heard	10	Burst		Small arms	23-Oct, 21:28-21:31
	3-5km S	Heard	9	Burst		HMG	23-Oct, 21:36
	3-5km S	Heard	2	Explosion	Undetermined	N/K	23-Oct, 21:36
	2-4km SW	Heard	9	Shot		Small arms	23-Oct, 21:39
	2-4km SW	Heard	1	Burst		HMG	23-Oct, 21:39
	3-5km SE	Heard	6	Burst		HMG	23-Oct, 21:51
	2-4km SW	Heard	1	Explosion	Undetermined	N/K	23-Oct, 22:04
	2-4km SW	Heard	13	Burst		HMG	23-Oct, 22:12-22:13
	2-4km SW	Heard	12	Burst		HMG	23-Oct, 22:16-22:19
	2-4km SW	Heard	2	Explosion	Undetermined	N/K	23-Oct, 22:16
	2-4km SW	Heard	13	Burst		HMG	23-Oct, 23:33
	3-5km S	Heard	1	Explosion	Undetermined	N/K	23-Oct, 23:49
	3-5km S	Heard	1	Explosion	Undetermined	N/K	24-Oct, 14:47
Holmivskiyi (non-government-controlled, 49km NE of Donetsk)	3-5km NW	Heard	2	Explosion	Undetermined	N/K	24-Oct, 09:33
	2-3km NE	Heard	1	Burst		Small arms	24-Oct, 09:47
	3-4km NW	Heard	3	Burst		HMG	24-Oct, 11:05
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	4-5km S	Heard	2	Explosion	Undetermined	N/K	24-Dec, 09:01
	2-3km E	Heard	3	Burst		HMG	24-Dec, 10:12
	2-3km E	Heard	1	Explosion		N/K	24-Dec, 10:20
	1-2km SE	Heard	2	Burst		HMG	24-Dec, 11:37
	1-2km E	Heard	5	Shot		Small arms	24-Dec, 11:53
	2-3km SE	Heard	3	Explosion	Undetermined	N/K	24-Dec, 12:17-12:20
	2-3km S	Heard	18	Explosion	Undetermined	N/K	24-Dec, 13:52-13:56
	2-3km SE	Heard	1	Explosion	Undetermined	N/K	24-Dec, 13:56
	2-3km S	Heard	17	Burst		HMG	24-Dec, 14:30
	2-3km S	Heard	30	Burst		HMG	24-Dec, 14:38
	2-3km S	Heard	20	Explosion	Undetermined	N/K	24-Dec, 14:38
SMM camera on N edge of Popasna (government-controlled, 69km W of Luhansk)	2-4km E	Recorded	1	Projectile	NNE to SSW (assessed as outside the Zolote disengagement area)	N/K	24-Oct, 00:47
NE edge of Zolote-5/Mykhailivka (non-government-controlled, 58km W of Luhansk)	1-2km W	Heard	1	Shot	Unable to assess if inside or outside the disengagement area	Small arms	24-Oct, 10:37-10:38
	1-2km N	Heard	5	Burst		Small arms	24-Oct, 10:38-10:45
Kalynove (non-government-controlled, 60km W of Luhansk)	5-6km WSW	Heard	1	Explosion	Undetermined	N/K	24-Oct, 11:01
W edge of Pervomaisk (non-government-	3-4km SW	Heard	27	Burst	Assessed as outside the Zolote disengagement	N/K	24-Oct, 15:50-16:07

controlled, 58km W of Luhansk)					area		
	3-4km SW	Heard	4	Explosion	Undetermined (assessed as outside the Zolote disengagement area)	N/K	24-Oct, 15:50- 16:07
	3-4km SW	Heard	24	Shot	Assessed as outside the Zolote disengagement area	N/K	24-Oct, 15:50- 16:07

Map of Donetsk and Luhansk regions¹⁰



¹⁰ The SMM is deployed to ten locations throughout Ukraine – Kherson, Odessa, Lviv, Ivano-Frankivsk, Kharkiv, Donetsk, Dnipro, Chernivtsi, Luhansk and Kyiv – as per Permanent Council Decision 1117 of 21 March 2014. This map of eastern Ukraine is meant for illustrative purposes and indicates locations mentioned in the report, as well as those where the SMM has offices (monitoring teams, patrol hubs, and forward patrol bases) in Donetsk and Luhansk regions. (In red: a forward patrol base from which SMM staff has temporarily relocated based on recommendations of security experts from participating States as well as SMM security considerations. The SMM uses the premises during daylight hours and patrols in this settlement during daylight hours, as well).