

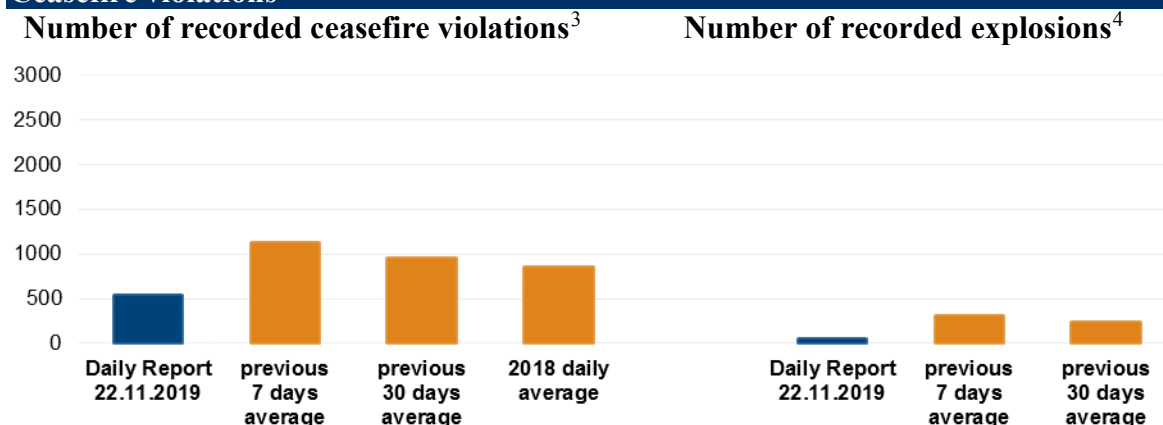
Daily Report 277/2019

22 November 2019¹

Summary

- Compared with the previous reporting period, the SMM recorded fewer ceasefire violations in Donetsk region and again no ceasefire violations in Luhansk region.
- Inside the Stanytsia Luhanska disengagement area, the Mission observed workers from government-controlled areas installing metal rails on both sides of the road north of the newly constructed section of the bridge and workers from non-government-controlled areas welding railings on the southern edge of the newly constructed section of the bridge.
- The SMM continued to monitor the situation at the Petrivske disengagement area.
- The Mission observed ongoing demining activities and the dismantling of a military position in the Zolote disengagement area.
- The Mission observed weapons in violation of the withdrawal lines on both sides of the contact line in Luhansk region.
- The SMM observed two convoys of trucks with Russian Federation licence plates in non-government-controlled Donetsk and Luhansk cities.
- The Mission facilitated repairs to and the operation of critical civilian infrastructure.
- Restrictions of the SMM's freedom of movement continued, including at checkpoints near non-government-controlled Zaichenko and Novoazovsk.*

Ceasefire violations²



¹ Based on information from the Monitoring Teams as of 19:30, 21 November 2019. All times are in Eastern European Time. During the reporting period, the SMM camera in Stanytsia Luhanska was not operational.

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

³ Including explosions.

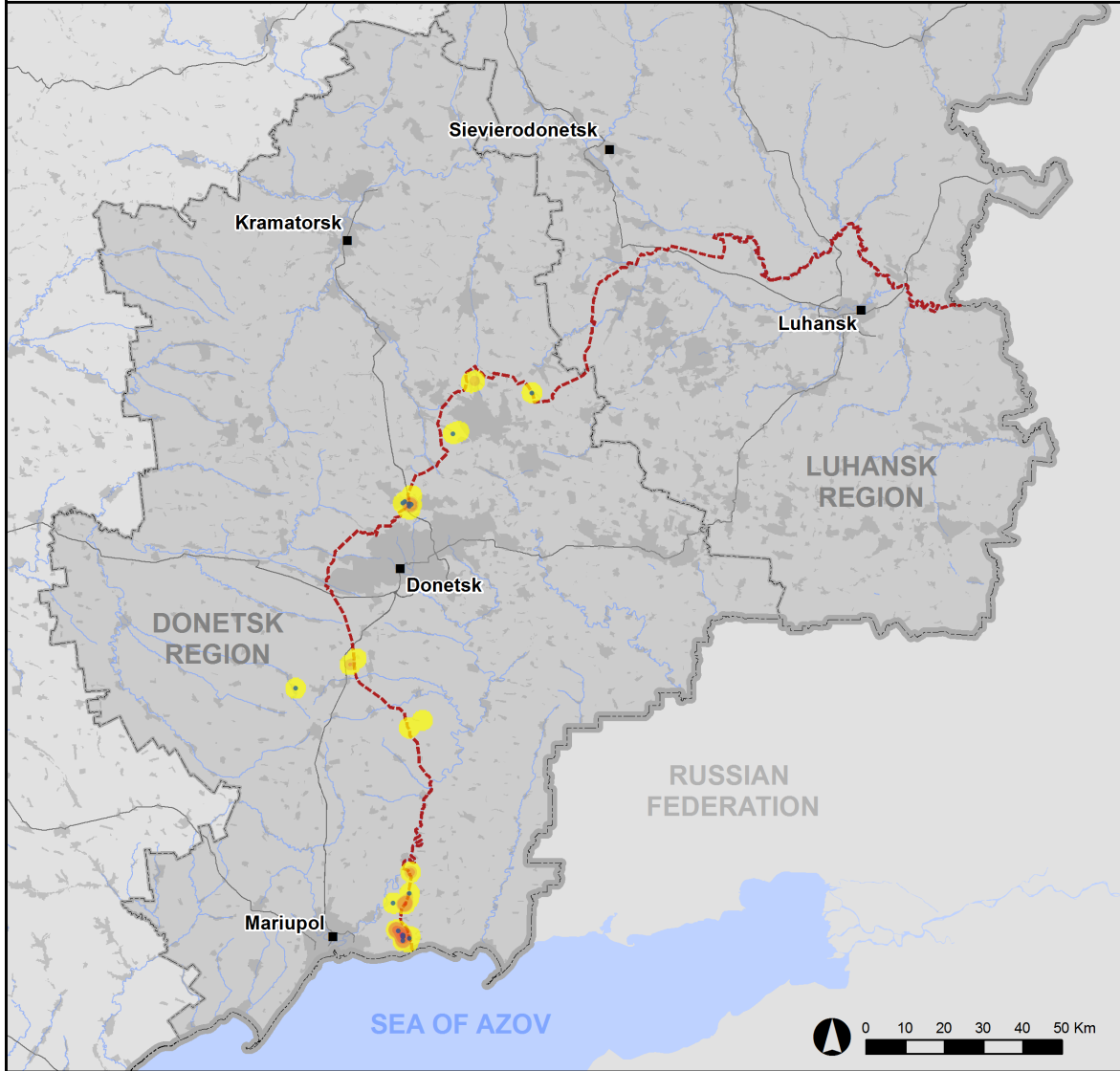
⁴ Including from unidentified weapons.

Map of recorded ceasefire violations

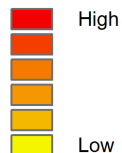


Organization for Security and
Co-operation in Europe
Special Monitoring Mission to Ukraine

Ceasefire violations observed by the SMM 21 November 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: 22/11/2019

In Donetsk region, the SMM recorded fewer ceasefire violations, including fewer explosions (46), compared with the [previous reporting period](#) (about 300 explosions). The majority of the ceasefire violations, including the majority of explosions, were recorded in areas north and north-north-east of Shyrokyne (government-controlled, 100km south of Donetsk), east-south-east of Lomakyne (government-controlled, 93km south of Donetsk) and at south-easterly directions of Hnutove (government-controlled, 90km south of Donetsk).

In Luhansk region, as in the [previous reporting period](#), the SMM recorded no ceasefire violations.

Disengagement areas near Stanytsia Luhanska, Petrivske and Zolote⁵

On 21 November, inside **the disengagement area near Stanytsia Luhanska** (government-controlled, 16km north-east of Luhansk), the Mission saw ten workers from government-controlled areas preparing the terrain under and around the bridge in order to plant new grass, clearing the road between the entry-exit checkpoint of the Ukrainian Armed Forces and the newly constructed section of the bridge of stones and branches and installing metal rails on the eastern and western sides of the road, just north of the newly repaired section of the bridge. On the afternoon of the same day, it saw a truck loaded with a [previously reported](#) green container used by the workers leaving the disengagement area.

On the same day, the SMM saw five workers from non-government-controlled areas welding hand railings on the southern edge of the newly constructed section of the bridge. It also observed at least four members of the armed formations (wearing armbands with “JCCC” written on them) between the southern edge of the newly constructed section of the bridge and the checkpoint of the armed formations south of the bridge.

The Mission saw pedestrians crossing the bridge in both directions. It also saw that the temporary bypass bridge was no longer in use.

On 20 November, inside the **disengagement area near Petrivske** (non-government-controlled, 41km south of Donetsk), an SMM mini-unmanned aerial vehicle (UAV) flights revealed empty positions, signs of demining activities on and near the road leading from Bohdanivka (government-controlled, 41km south-west of Donetsk) to Viktorivka (non-government-controlled, 42km south-west of Donetsk), as well as the presence of mines near and inside the area.

Specifically, an SMM mid-range UAV spotted that positions of the Ukrainian Armed Forces stretching along a treeline inside the disengagement area near the area’s north-western edge were empty of hardware and personnel. It also saw a track leading from the position to the aforesaid road marked by a red and white tape and mine hazard signs on its western side. Furthermore, the UAV spotted that three positions in the central part of the disengagement area were also empty of hardware and personnel. The UAV also spotted that a trench and position of the armed formations on the northern edge of the area, about 400m west of its eastern edge, was empty of hardware and personnel.

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

In a pen (about ten square meters) surrounded by red-and-white tape near the above-mentioned road, about 1km east of Bohdanivka, outside the disengagement area, an SMM mini-UAV spotted 29 anti-tank mines, five rocket-propelled grenade warheads, three mortar rounds and at least 50 probable grenades (OG-9). About 1km further east and about 200m north-west of the disengagement area's north-western edge, an SMM mini-UAV spotted another area of about 13,000 square meters marked by red-and-white tape. About 700m further east, an SMM mini-UAV spotted five white vehicles as well as ten people in blue uniforms and two Ukrainian Armed Forces personnel standing nearby.

An SMM mini-UAV [again](#) spotted 38 anti-tank mines (TM-62M) in a cluster (marked by red-and-white tape around them) tape across the road between Bohdanivka and Viktorivka, about 160m north of the northern edge of the disengagement area. It also again spotted 11 anti-tank mines laid across the aforementioned road (forming a part of a larger previously reported minefield). Inside the disengagement area, an SMM mini-UAV [again](#) spotted about 200 anti-tank mines laid in two rows running north to south and starting about 700m south of the area's northern edge. All these mines were assessed as belonging to the Ukrainian Armed Forces.

An SMM mid-range UAV [again](#) spotted 16 anti-tank mines in a field south of the above-mentioned road and about 100m north of the disengagement area's northern edge. The UAV also spotted 36 anti-tank mines in fields south of Petrivske, about 200m east of the area's eastern edge (for previous observations, see [SMM Daily Report 15 April 2019](#)). About 200m west of these 36 mines, the UAV spotted 40 anti-tank mines laid in a straight line in a field inside the disengagement area. All these mines were assessed as belonging to the armed formations.

On 21 November, positioned about 2km north of Petrivske, the SMM saw at least nine persons, assessed as members of the armed formations, next to trenches near the eastern edge of the disengagement area. From the same position, the SMM heard six shorts and bursts of small-arms fire, at an assessed range of 2-3km south-east, assessed as outside the disengagement area.

On the same day, positioned about 300m east of Bohdanivka, the SMM saw three vehicles, three armoured personnel carriers (Kozak variant) and an excavator belonging to the State Emergency Service (SES) of Ukraine heading towards the disengagement area. After about five hours, the Mission saw them heading back towards Bohdanivka.

On 20 November, inside **the disengagement area near Zolote**, an SMM mini-UAV spotted a wheeled excavator removing a position of the Ukrainian Armed Forces south of the railway track about 700m south-south-west of the railway bridge. The same UAV spotted a white vehicle and four people in blue uniforms, assessed as SES workers, on the railway bridge.

On the same day, the SMM saw four infantry fighting vehicles (IFVs) (BMP variant) at the checkpoint of the Ukrainian Armed Forces about 300m north of the disengagement area's northern edge. An SMM mini-UAV spotted an IFV (BMP-2) in a treeline about 600 m north-east of the disengagement areas north-western edge, assessed as belonging to the Ukrainian Armed Forces. It also saw an armed Ukrainian Armed Forces member inside a [previously reported](#) position about 40m south of the area's northern edge.

On the same day, at the checkpoint of the armed formations on the southern edge of the disengagement area, the SMM saw two members of the armed formations (wearing armbands with "JCCC" written on them), 21 workers and three deminers (with metal detectors) from

non-government-controlled areas entering the disengagement area on road T-1316. On the same day, while positioned at the aforesaid checkpoint, the SMM heard an explosion at an assessed range of 600-700m north, assessed as a controlled detonation.

On 20 and 21 November, at the checkpoint of the Ukrainian Armed Forces about 300m north of the disengagement area's northern edge, the SMM [again](#) saw an armoured ambulance (MT-LB S) an armoured personnel carrier (APC) (KrAZ *Cobra*) with a mounted heavy-machine gun and a truck with a mounted recoilless rifle system (SPG-9, 73mm, not mounted on the truck on 21 November).

On both days, the Mission continued to observe construction and fortification works on defensive positions outside the disengagement area, along its northern edge and south of Zolote-4/Rodina (for previous observations in the area, see [SMM Daily Report 21 November 2019](#)). About 180m north of the disengagement area's northern edge and about 700m east of road T-1316, the SMM also saw a truck with six Ukrainian Armed Forces personnel fortifying a bunker.

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 weapons in violation of the withdrawal lines on both sides of the contact line in Luhansk region. It observed weapons beyond withdrawal lines but outside of designated storage sites: 37 in government-controlled areas of Donetsk region and 31 in non-government-controlled areas of Luhansk region (for further details, see the tables below).

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

The SMM observed military presence inside the security zone in government-controlled areas of Donetsk region and in non-government-controlled areas of Luhansk region, including an IFV in a residential area of Avdiivka (government-controlled, 17km north of Donetsk) (for further details, see the table below).

Mines near non-government-controlled Styla

On 20 November, an SMM mid-range UAV spotted 48 anti-tank mines laid in two rows in a field about 5km south-south-west of Styla (non-government-controlled, 34km south of Donetsk) (for previous observations in the area, see [SMM Daily Report 28 October 2019](#)).

Two convoys of trucks with Russian Federation licence plates in non-government-controlled Donetsk city and Luhansk city

On the morning of 21 November, the SMM observed a convoy of 14 trucks with Russian Federation licence plates (with "Humanitarian Aid from the Russian Federation" written in Russian on one of them) accompanied by seven vehicles (six with "DPR" plates) in Donetsk city's Budonivskiy District. After about three hours, while driving on a road north of Zhukova

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

Balka (non-government-controlled, 50km south-east of Donetsk), the SMM saw the aforementioned convoy driving south-east.

On the same day, the SMM saw a convoy of seven trucks with Russian Federation licence plates (with “Humanitarian Aid from the Russian Federation” written in Russian on two of them) accompanied by two vehicles with “LPR” plates entering a walled compound in the southern part of non-government-controlled Luhansk city (for previous observations in the area, see [SMM Daily Report 15 November 2019](#)).

Situation at checkpoints along the contact line

The SMM continued to see long queues at a checkpoint of the armed formations on highway H-15 east of Kremynets (non-government-controlled, 16km south-west of Donetsk). While at the checkpoint for about 45 minutes, the SMM saw about 250 cars and 15 buses were queuing to enter non-government-controlled areas, and about 60 cars were queuing in the opposite direction. It also saw that two cars had entered the checkpoint premises. Three men and two women (mixed ages) told the SMM that they had been waiting for at least three hours (for previous observations in the area, see [SMM Daily Report 13 November 2019](#)).

SMM facilitation of repairs to and operation of critical civilian infrastructure

The SMM monitored adherence to the ceasefire to facilitate repair works to water pipelines in the area near Krasnyi Lyman (non-government-controlled, 30km north-west of Luhansk). The Mission also continued to facilitate the operation of the Donetsk Filtration Station (15km north of Donetsk).

Border areas outside government control

While at a border crossing point near Uspenka (73km south-east of Donetsk) for two hours, the SMM saw 44 cars (11 with Russian Federation, 13 with Georgian and one with Azerbaijani licence plates, as well as 19 with “DPR” plates) and three pedestrians (two women and a man in their fifties and sixties) entering Ukraine. It also saw 53 cars (21 with Ukrainian, nine with Russian Federation, three with Georgian and one with Azerbaijani licence plates, as well as 19 with “DPR” plates), two buses with “DPR” plates and five pedestrians (four women and a man, mixed ages) exiting Ukraine.

While at a pedestrian border crossing point near Verkhnoharasymivka (non-government-controlled, 57km south-east of Luhansk) for about half an hour, the SMM saw two pedestrians (men in their forties) entering Ukraine and eight pedestrians (three women and five men, mixed ages) exiting Ukraine.

While at a pedestrian border crossing point near Sievernyi (non-government-controlled, 50km south-east of Luhansk) for 25 minutes, the SMM saw six pedestrians (four women and two men, mixed ages) entering Ukraine.

The Mission 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, unexploded ordnance (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 Joint Centre for Control and Co-ordination (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 of 19 November 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 of access:

- At a checkpoint of the armed formations 800m north of Zaichenko (non-government-controlled, 93km south of Donetsk), an armed member of the armed formations [again](#) denied the SMM passage citing “demining activities in the area”.
- At a checkpoint of the armed formations north-east of Novoazovsk (non-government-controlled, 102km south of Donetsk), two members of the armed formations denied the SMM access south to towards Siedove (non-government-controlled, 106km south of Donetsk), citing “ongoing operations in the area”.
- At a checkpoint of the armed formations on the northern edge of Novoazovsk three members of the armed formations (one of them visibly arm) denied the SMM passage southwards, citing “ongoing operations in the city”.

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.

Table of weapons
Weapons in violation of the withdrawal lines

Date	No. of weapons	Type of weapons	Location	Source of observation
Government-controlled areas				
21/11/2019	1	Surface-to-air missile system (9K33 <i>Osa</i>)	Raihorodka (34km north-west of Luhansk)	Patrol
Non-government-controlled areas				
20/11/2019	2	Probable mortar (2B11 <i>Sani</i> , 120mm)	Near Sentianivka (formerly Frunze, 44km west of Luhansk)	Mini UAV

Beyond withdrawal lines but outside of designated storage sites

Date	No. of weapons	Type of weapons	Location	Source of observation
Government-controlled areas				
20/11/2019	1	Tank (T-72)	In Khibodarivka (65km south-west of Donetsk)	Mini UAV
	7	Towed howitzer (2A36 <i>Giatsint</i> , 152mm)		
	8	Towed howitzer (D-20, 152mm)		
	21	Tank (T-72)	At a railway station in Zachativka (74km south-west of Donetsk)	
Non-government-controlled areas				
08/11/2019	31	Tank (type undetermined)	At a training area near Manuilivka (65km east of Donetsk)	Aerial imagery

Other weapons⁷

Date	No. of weapons	Type of weapons	Location	Source of observation
Non-government-controlled areas				
08/11/2019	6	Towed artillery	At a training area near Manuilivka (65km east of Donetsk)	Aerial imagery

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

Date	No.	Type	Location	Source of observation
Government-controlled areas				
21/11/2019	1	Infantry fighting vehicle (BTR-4)	In a residential area of Avdiivka (17km north of Donetsk)	Patrol
	1	Armoured personnel carrier (MT-LB)	Near Berdianske (102km south of Donetsk)	Patrol

⁷ The SMM was unable to assess whether these weapons were in violation of withdrawal lines in the absence of information on their calibre.

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

Non-government-controlled areas				
20/11/2019	1	Infantry fighting vehicle (BMP-1 or BMP-2)	Near Sentianivka (formerly Frunze, 44km west of Luhansk)	Mini UAV

Table of ceasefire violations as of 21 November 2019⁹

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera in Berezove (government-controlled, 31km SW of Donetsk)	2-4km SSE	Recorded	14	Projectile	SW to NE	N/K	20-Nov, 23:16
	2-4km ESE	Recorded	3	Projectile	SW to NE	N/K	21-Nov, 17:07
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	3-5km SSE	Recorded	2	Projectile	S to N	N/K	20-Nov, 22:06
	3-5km SSE	Recorded	3	Projectile	S to N	N/K	20-Nov, 23:43
	3-5km SSE	Recorded	4	Projectile	S to N	N/K	20-Nov, 23:44
	3-5km SSE	Recorded	3	Projectile	NE to SW	N/K	21-Nov, 02:17
	3-5km SSE	Recorded	6	Projectile	NE to SW	N/K	21-Nov, 02:18
	3-5km SSE	Recorded	2	Projectile	NE to SW	N/K	21-Nov, 02:22
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	0.7-1km SSE	Recorded	1	Explosion	Undetermined	N/K	20-Nov, 20:39
	0.5-1km S	Recorded	1	Explosion	Undetermined	N/K	20-Nov, 20:56
	0.5-1km SSW	Recorded	1	Projectile	WNW to ESE	N/K	20-Nov, 20:56
	0.5-1km SSW	Recorded	2	Projectile	W to E	N/K	20-Nov, 22:11
	0.7-1km SSE	Recorded	4	Projectile	ESE to WNW	N/K	20-Nov, 22:15
	0.5-1km SSW	Recorded	2	Muzzle flash		N/K	20-Nov, 22:17
	0.7-1km SSE	Recorded	5	Explosion	Undetermined	N/K	20-Nov, 22:17
	0.7-1km SSE	Recorded	5	Projectile	ENE to WSW	N/K	20-Nov, 22:21
	0.7-1km SSE	Recorded	8	Projectile	ESE to WNW	N/K	20-Nov, 22:22
	0.7-1km SSE	Recorded	2	Projectile	ESE to WNW	N/K	20-Nov, 22:23
	0.5-1km SSW	Recorded	1	Projectile	W to E	N/K	20-Nov, 22:45
	0.5-1km SSW	Recorded	1	Muzzle flash		N/K	20-Nov, 22:45
	1-3km S	Recorded	2	Projectile	WNW to ESE	N/K	21-Nov, 01:43
	1-3km S	Recorded	2	Projectile	WNW to ESE	N/K	21-Nov, 01:44
	1-3km S	Recorded	1	Projectile	NW to SE	N/K	21-Nov, 02:37
	1-3km SSW	Recorded	1	Projectile	NW to SE	N/K	21-Nov, 02:37

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.

	0.5-1km SSW	Recorded	4	Explosion	Undetermined	N/K	21-Nov, 03:31
	0.7-1km SSW	Recorded	1	Projectile	W to E (also recorded by the SMM camera in Avdiivka)	N/K	21-Nov, 03:34
SMM camera 1.5km NE of Hnutove (government- controlled, 90km S of Donetsk)	3-5km SE	Recorded	2	Projectile	S to N	N/K	20-Nov, 20:04
	3-5km SE	Recorded	1	Projectile	S to N	N/K	20-Nov, 21:30
	3-5km SE	Recorded	5	Projectile	SSW to NNE	N/K	20-Nov, 22:18
	3-5km SE	Recorded	4	Projectile	SSW to NNE	N/K	20-Nov, 22:19
	3-5km SE	Recorded	12	Projectile	SSW to NNE	N/K	20-Nov, 22:48
	3-5km E	Recorded	1	Explosion	Undetermined	N/K	20-Nov, 23:14
	3-5km SE	Recorded	1	Projectile	NNE to SSW	N/K	20-Nov, 23:14
	3-5km SE	Recorded	1	Projectile	SSW to NNE	N/K	20-Nov, 23:15
	3-5km SE	Recorded	2	Muzzle flash		N/K	20-Nov, 23:15
	3-5km SE	Recorded	5	Projectile	S to N	N/K	20-Nov, 23:44
	3-5km SE	Recorded	3	Projectile	SSW to NNE	N/K	20-Nov, 00:29
	3-5km SE	Recorded	1	Projectile	NNE to SSW	N/K	20-Nov, 00:37
	3-5km SE	Recorded	1	Projectile	SSW to NNE	N/K	21-Nov, 00:44
	3-5km SE	Recorded	1	Projectile	SSW to NNE	N/K	21-Nov, 00:45
	3-5km E	Recorded	4	Projectile	NNE to SSW	N/K	21-Nov, 01:19
	3-5km SE	Recorded	2	Projectile	NNE to SSW	N/K	21-Nov, 01:46
	3-5km SE	Recorded	3	Projectile	SSW to NNE	N/K	21-Nov, 02:04
	3-5km SE	Recorded	3	Projectile	SSW to NNE	N/K	21-Nov, 02:09
	3-5km SE	Recorded	2	Projectile	NNE to SSW	N/K	21-Nov, 02:09
	3-5km SE	Recorded	3	Projectile	NNE to SSW	N/K	21-Nov, 02:27
	3-5km SE	Recorded	1	Projectile	SSW to NNE	N/K	21-Nov, 03:11
	3-5km SE	Recorded	1	Projectile	SSW to NNE	N/K	21-Nov, 03:15
	3-5km SE	Recorded	1	Projectile	NNE to SSW	N/K	21-Nov, 03:21
	3-5km SE	Recorded	1	Projectile	NNE to SSW	N/K	21-Nov, 03:46

	3-5km SE	Recorded	2	Projectile	NNE to SSW	N/K	21-Nov, 03:48
	3-5km SE	Recorded	1	Projectile	SSW to NNE	N/K	21-Nov, 04:53
	3-5km SE	Recorded	3	Projectile	SSW to NNE	N/K	21-Nov, 05:00
	3-5km ESE	Recorded	7	Projectile	SSW to NNE	N/K	21-Nov, 17:00
	3-5km ESE	Recorded	1	Projectile	SSW to NNE	N/K	21-Nov, 17:27
SMM camera E of Lomakyne (government-controlled, 93km S of Donetsk)	3-6km ESE	Recorded	1	Explosion	Undetermined	N/K	20-Nov, 19:17
	3-5km ESE	Recorded	11	Projectile	N to S	N/K	20-Nov, 23:33
	3-5km ESE	Recorded	1	Projectile	N to S	N/K	20-Nov, 23:36
	3-5km ESE	Recorded	3	Projectile	S to N	N/K	21-Nov, 01:14
	2-6km ESE	Recorded	14	Projectile	N to S	N/K	21-Nov, 17:05
	2-6km ESE	Recorded	37	Projectile	N to S	N/K	21-Nov, 17:06
	2-6km ESE	Recorded	23	Projectile	N to S (also recorded by the SMM camera in Shyrokyne)	N/K	21-Nov, 17:06
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	3-5km ENE	Recorded	11	Projectile	N to S	N/K	20-Nov, 21:01
	3-5km ENE	Recorded	1	Projectile	N to S	N/K	20-Nov, 23:59
	2-4km ENE	Recorded	1	Illumination flare	In vertical flight	N/K	21-Nov, 01:41
SMM camera in Petrivske (non-government-controlled, 41km S of Donetsk)	2-3km SSW	Recorded	1	Projectile	SE to NW (assessed as outside the disengagement area)	N/K	15-Nov, 00:24
SMM camera 1km SW of Shyrokyne (government-controlled, 100km S of Donetsk)	2-5km N	Recorded	2	Projectile	W to E	N/K	20-Nov, 18:36
	2-5km N	Recorded	1	Projectile	E to W	N/K	20-Nov, 18:36
	2-5km N	Recorded	14	Projectile	E to W	N/K	20-Nov, 18:43
	2-5km N	Recorded	10	Projectile	E to W	N/K	20-Nov, 18:44
	2-5km N	Recorded	4	Projectile	E to W	N/K	20-Nov, 18:52
	2-5km N	Recorded	7	Projectile	E to W	N/K	20-Nov, 18:53
	2-5km N	Recorded	5	Projectile	E to W	N/K	20-Nov, 18:55
	2-5km NNE	Recorded	3	Projectile	W to E	N/K	20-Nov, 19:14

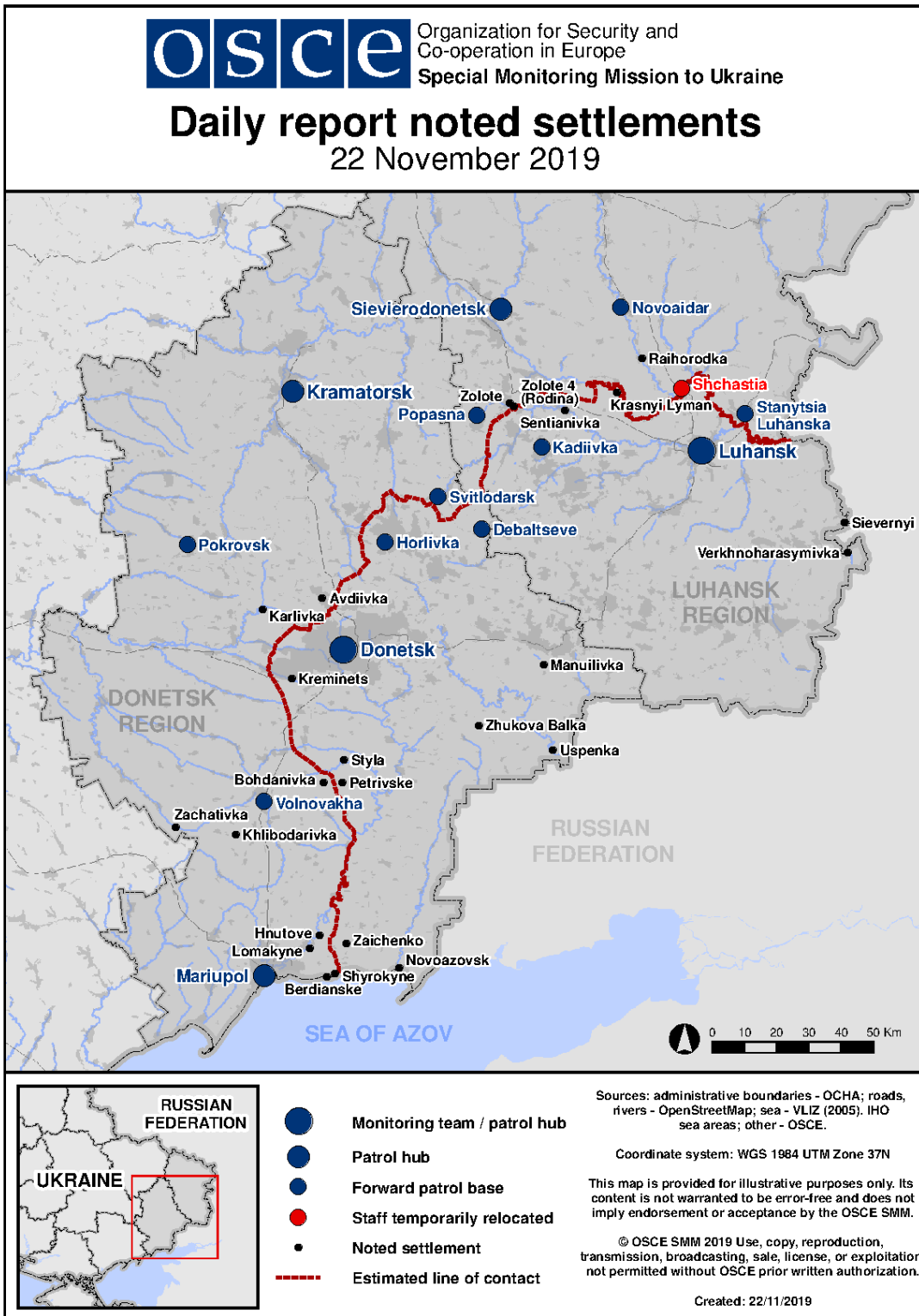
2-5km N	Recorded	2	Projectile	W to E	N/K	20-Nov, 19:17
2-5km N	Recorded	2	Explosion	Undetermined	N/K	20-Nov, 19:17
4-6km N	Recorded	3	Projectile	WSW to ENE	N/K	20-Nov, 20:24
4-6km N	Recorded	4	Projectile	WSW to ENE	N/K	20-Nov, 20:26
4-6km N	Recorded	1	Projectile	WSW to ENE	N/K	20-Nov, 20:31
4-6km N	Recorded	1	Projectile	WSW to ENE	N/K	20-Nov, 21:35
4-6km N	Recorded	4	Projectile	E to W	N/K	20-Nov, 21:43
4-6km N	Recorded	3	Projectile	E to W	N/K	20-Nov, 22:39
4-6km N	Recorded	5	Projectile	W to E	N/K	20-Nov, 22:48
4-6km N	Recorded	7	Projectile	WSW to ENE	N/K	20-Nov, 23:33
4-6km N	Recorded	1	Explosion	Undetermined	N/K	20-Nov, 23:33
4-6km NNE	Recorded	1	Projectile	In vertical flight	N/K	20-Nov, 23:33
4-6km N	Recorded	1	Projectile	WSW to ENE	N/K	20-Nov, 23:36
4-6km N	Recorded	2	Explosion	Undetermined	N/K	20-Nov, 23:55
4-6km N	Recorded	2	Explosion	Undetermined	N/K	20-Nov, 23:56
4-6km N	Recorded	7	Projectile	E to W	N/K	21-Nov, 00:03
4-6km N	Recorded	1	Projectile	ESE to WNW	N/K	21-Nov, 00:20
4-6km N	Recorded	1	Projectile	E to W (also recorded by the SMM cameras in Lomakyne and Hnutove)	N/K	21-Nov, 00:26
4-6km N	Recorded	6	Projectile	E to W (also recorded by the SMM cameras in Lomakyne and Hnutove)	N/K	21-Nov, 00:27
4-6km N	Recorded	6	Projectile	W to E (also recorded by the SMM cameras in Lomakyne and Hnutove)	N/K	21-Nov, 00:27
4-6km N	Recorded	2	Projectile	W to E (also recorded by the SMM cameras in Lomakyne and Hnutove)	N/K	21-Nov, 00:28

4-6km N	Recorded	3	Projectile	W to E (also recorded by the SMM cameras in Lomakyne and Hnutove)	N/K	21-Nov, 00:29
4-6km N	Recorded	1	Projectile	E to W (also recorded by the SMM cameras in Lomakyne and Hnutove)	N/K	21-Nov, 00:29
4-6km N	Recorded	4	Projectile	E to W	N/K	21-Nov, 00:31
4-6km N	Recorded	4	Projectile	SSW to NNE	N/K	21-Nov, 00:33
4-6km N	Recorded	1	Projectile	E to W (also recorded by the SMM cameras in Lomakyne and Hnutove)	N/K	21-Nov, 00:36
4-6km N	Recorded	1	Projectile	E to W (also recorded by the SMM cameras in Lomakyne and Hnutove)	N/K	21-Nov, 00:37
4-6km N	Recorded	1	Projectile	E to W	N/K	21-Nov, 00:38
4-6km N	Recorded	9	Projectile	WSW to ENE	N/K	21-Nov, 00:41
4-6km N	Recorded	2	Projectile	E to W	N/K	21-Nov, 00:41
4-6km N	Recorded	2	Projectile	ESE to WNW	N/K	21-Nov, 00:42
4-6km N	Recorded	1	Projectile	W to E	N/K	21-Nov, 01:12
4-6km N	Recorded	2	Projectile	E to W	N/K	21-Nov, 01:22
4-6km N	Recorded	4	Projectile	E to W	N/K	21-Nov, 01:37
4-6km N	Recorded	12	Projectile	E to W	N/K	21-Nov, 02:14
4-6km N	Recorded	1	Explosion	Undetermined	N/K	21-Nov, 02:22
4-6km N	Recorded	4	Projectile	E to W	N/K	21-Nov, 02:27
4-6km N	Recorded	2	Projectile	E to W	N/K	21-Nov, 02:28
4-6km N	Recorded	3	Projectile	SW to NE	N/K	21-Nov, 02:46
4-6km N	Recorded	5	Projectile	WSW to ENE	N/K	21-Nov, 02:47
4-6km N	Recorded	1	Muzzle flash		N/K	21-Nov, 02:57
4-6km N	Recorded	1	Projectile	SW to NE (subsequent to previous event)	N/K	21-Nov, 02:57

	4-6km N	Recorded	3	Projectile	W to E	N/K	21-Nov, 02:59
	4-6km N	Recorded	1	Muzzle flash		N/K	21-Nov, 03:04
	4-6km N	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	21-Nov, 03:04
	4-6km N	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	21-Nov, 03:04
	4-6km N	Recorded	1	Projectile	W to E	N/K	21-Nov, 03:09
	4-6km N	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	21-Nov, 03:09
	4-6km N	Recorded	1	Projectile	W to E	N/K	21-Nov, 04:37
	4-6km N	Recorded	14	Projectile	E to W	N/K	21-Nov, 04:41
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	21-Nov, 04:41
	4-6km N	Recorded	1	Projectile	WSW to ENE	N/K	21-Nov, 05:55
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	21-Nov, 16:54
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	21-Nov, 16:55
	3-6km N	Recorded	15	Projectile	W to E	N/K	21-Nov, 16:59
	3-6km NNE	Recorded	3	Explosion	Undetermined	N/K	21-Nov, 17:05
	3-6km N	Recorded	26	Projectile	W to E	N/K	21-Nov, 17:13
	3-6km N	Recorded	6	Projectile	W to E	N/K	21-Nov, 17:15
	3-6km N	Recorded	1	Projectile	W to E	N/K	21-Nov, 17:27
	3-6km N	Recorded	2	Projectile	E to W	N/K	21-Nov, 17:45
	3-6km N	Recorded	1	Explosion	Undetermined (also recorded by the SMM camera in Lomakyne)	N/K	21-Nov, 17:45
	3-6km N	Recorded	1	Explosion	Undetermined	N/K	21-Nov, 17:45
	3-6km N	Recorded	1	Projectile	E to W	N/K	21-Nov, 17:46
	3-6km N	Recorded	1	Explosion	Undetermined	N/K	21-Nov, 17:46
SE part of Avdiivka (government- controlled, 17km N of Donetsk)	1km E	Heard	2	Explosion	Outgoing	N/K	21-Nov, 10:27
About 2km N of Petrivske (non- government-	2-3km SE	Heard	3	Burst	Assessed as outside the	Small arms	21-Nov, 11:19

controlled, 41km S of Donetsk)					disengagement area		
	2-3km SE	Heard	3	Shot	Assessed as outside the disengagement area	Small arms	21-Nov, 12:15
About 1km NW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	2.5km WSW	Heard and saw	2	Explosion	Impact	N/K	21-Nov, 10:27
	2-3km NW	Heard	2	Burst		Small arms	21-Nov, 12:50
2km SW of Pyshchevyk (government-controlled, 84km S of Donetsk)	2-3km S	Heard	3	Explosion	Undetermined	N/K	21-Nov, 10:40
About 2km SE of Zelenyi Hai (government-controlled, 46km SW of Donetsk)	5-7km NNW	Heard	1	Explosion	Undetermined	N/K	21-Nov, 11:40
Horlivka (non-government-controlled, 39km NE of Donetsk)	3-5km WSW	Heard	2	Explosion	Undetermined	N/K	20-Nov, 23:52
	2-3km WSW	Heard	3	Burst		Small arms	20-Nov, 23:52
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	4-6km S	Heard	2	Explosion	Undetermined	N/K	21-Nov, 10:27
Svitlodarsk (government-controlled, 57km NE of Donetsk)	4-6km S	Heard	1	Explosion	Undetermined	N/K	21-Nov, 16:35

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).