



Daily Report 249/2019

21 October 2019¹

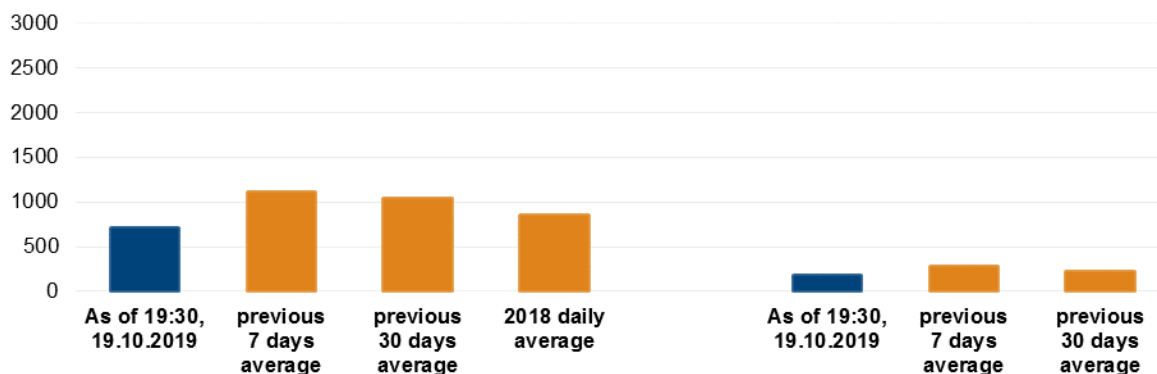
Summary

- Compared with the previous reporting period, between the evenings of 18 and 19 October, the SMM recorded fewer ceasefire violations both in Donetsk and Luhansk regions.
- Between the evenings of 19 and 20 October, the Mission recorded fewer ceasefire violations in Donetsk region and more in Luhansk region, compared with the previous 24 hours.
- The Mission saw damage to civilian properties from gunfire in Zolote-5/Mykhailivka and a crater in Pikuzy.
- Inside the Stanytsia Luhanska disengagement area, the SMM continued to observe reconstruction of the broken section of the bridge.
- The Mission saw clearing of vegetation as well as military and military-type presence inside the disengagement area near Zolote. It registered ceasefire violations inside both disengagement areas near Zolote and Petrivske.
- The Mission observed weapons in violation of withdrawal lines in government-controlled areas of Donetsk region and in non-government-controlled areas of Luhansk region.
- The SMM saw anti-tank mines near government-controlled Vodiane, unexploded ordnance near non-government-controlled Verkhnohyrokiivske and demining activities on the road between Pervomaisk and Popasna.
- The SMM monitored events related to marking of the European Anti-Trafficking Day.

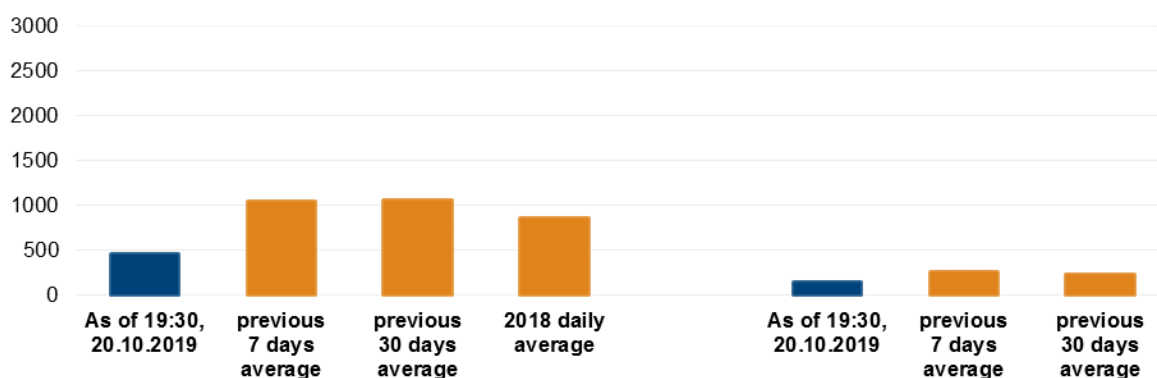
¹ Based on information from the Monitoring Teams as of 19:30, 20 October 2019. All times are in Eastern European Summer Time.

Ceasefire violations²

Number of recorded ceasefire violations³



Number of recorded explosions⁴



² For a complete breakdown of ceasefire violations, please see the annexed table. During the reporting period, the SMM camera at the Donetsk Filtration Station was not operational and fog limited the observation capabilities of some of the other SMM cameras.

³ Including explosions.

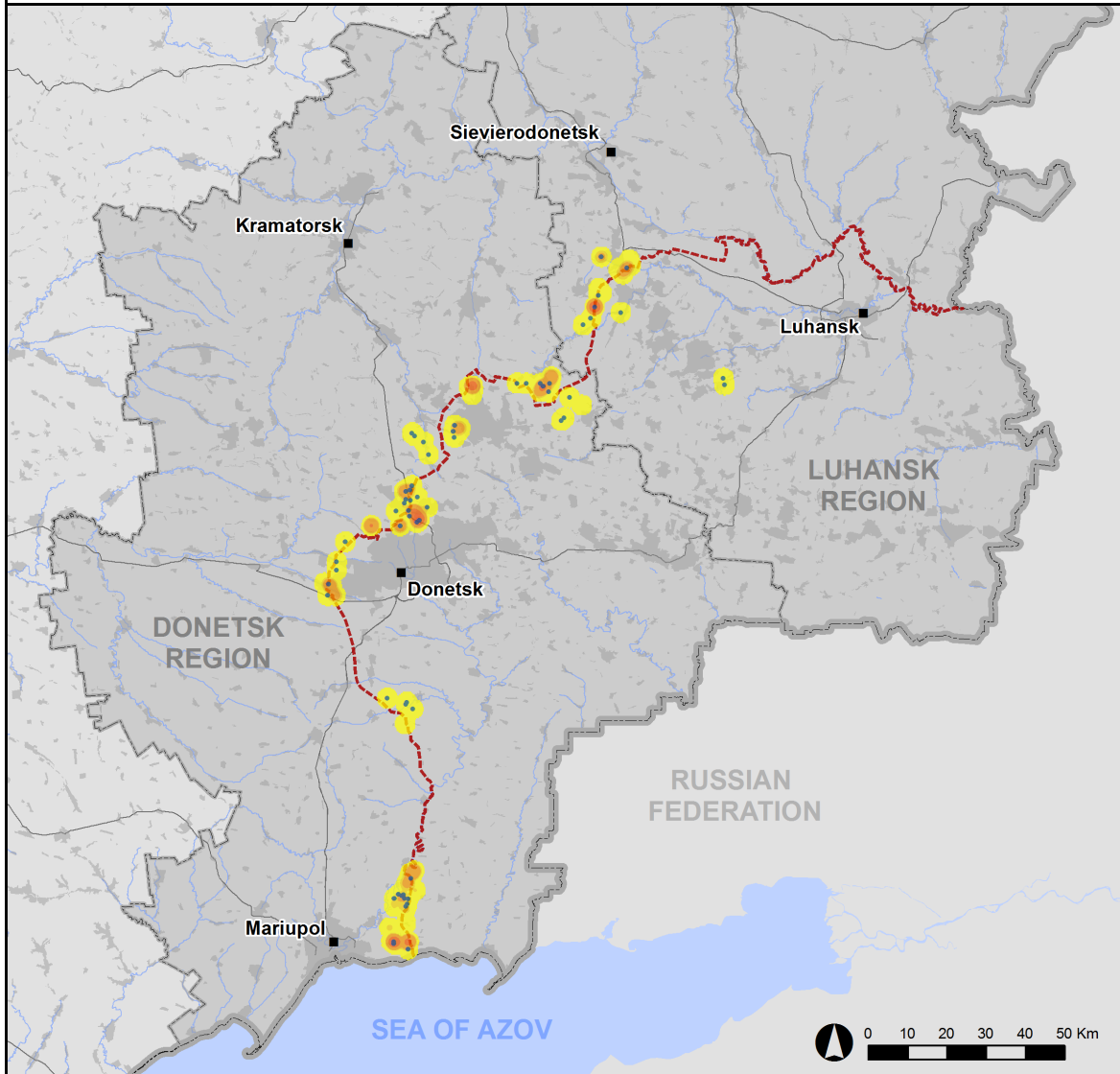
⁴ Including from unidentified weapons.

Map of recorded ceasefire violations

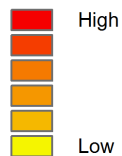


Organization for Security and
Co-operation in Europe
Special Monitoring Mission to Ukraine

Ceasefire violations observed by the SMM 19-20 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: 21/10/2019

In Donetsk region, between the evenings of 18 and 19 October, the SMM recorded fewer ceasefire violations, including fewer explosions (165), compared with the [previous reporting period](#) (about 485 explosions). The highest number of ceasefire violations were recorded at southerly directions of Yasynuvata (non-government-controlled, 16km north-east of Donetsk) and in areas west of Sakhanka (non-government-controlled, 97km south of Donetsk).

Between the evenings of 19 and 20 October, the SMM recorded fewer ceasefire violations, including fewer explosions (about 30), compared with the previous 24 hours. The highest number of ceasefire violations were recorded in areas east-north-east and east of Maiorsk (government-controlled, 45km north-east of Donetsk), and in areas south-west and west-south-west of Yasynuvata.

In Luhansk region, between the evenings of 18 and 19 October, the SMM recorded fewer ceasefire violations, including fewer explosions (14), compared with the [previous reporting period](#) (about 160 explosions). The highest number of ceasefire violations were recorded at easterly directions of Zolote (government-controlled, 60km west of Luhansk) and in areas north-east of Popasna (government-controlled, 69km west of Luhansk).

Between the evenings of 19 and 20 October, the SMM recorded more ceasefire violations including more explosions (115), compared with the previous 24 hours. The majority of ceasefire violations, including the majority of explosions, were recorded in areas south-west of Pervomaisk (non-government-controlled, 58km west of Luhansk).

Damage to civilian properties from gunfire in Zolote-5/Mykhailivka and a crater in Pikuzy

On 19 October, at 5 Voikova Street in the south-western part of Zolote-5/Mykhailivka (non-government-controlled, 61km north-west of Luhansk), about 500m from the forward positions of the armed formations, the SMM saw two holes in a north-facing window – as well as a 7.62mm bullet in the window glass and another on the floor, together with shattered glass – of an apartment on the first floor of a five-storey apartment building. The SMM assessed the damage as fresh and caused by small-arms fire. A woman (in her eighties) told the Mission that she heard the shooting in the early morning hours of 19 October.

On 20 October, on Akhmatovoi Street in Pikuzy (formerly Kominternove, non-government-controlled, 92km south of Donetsk), the Mission saw a fresh crater in the middle of the asphalted road. Inside the crater, it saw splinter grooves and an 82mm mortar tailfin, assessed as fired from a westerly direction. About 450m west-south-west, at 7 Peremohy Street, the SMM saw a burnt house with its roof missing and windows destroyed on the east-facing wall of the house. The Mission could not assess the cause of the damage, but assessed it as fresh. A resident of the village (woman in her sixties) told the SMM that the village was shelled on 18 October and that the said house had burned on the same day.

Disengagement areas near Stanytsia Luhanska, Zolote and Petrivske⁵

On 19 October, inside **the disengagement area near Stanytsia Luhanska** (government-controlled, 16km north-east of Luhansk), the SMM saw three members of the armed formations (wearing armbands with “JCCC” written on them) for the first time at the entrance

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

of the temporary pedestrian bypass bridge. On the same day, outside the disengagement area, the Mission saw a truck delivering gravel to the parking lot adjacent to the Prince Ihor monument about 1km south-south-east of the Stanytsia Luhanska bridge (15km north-east of Luhansk).

On 20 October, inside the disengagement area, the SMM saw workers from government-controlled areas east of the broken section of the bridge operating a crane, while one worker was sandblasting a metallic bridge support pillar. Outside the disengagement area, the SMM saw about 100 cars and about 100 pedestrians queuing near the Prince Ihor monument, while the adjacent parking lot was still closed for construction. The Mission again saw members of the armed formations (wearing armbands with "JCCC" written on them) at the entrance of the temporary pedestrian bypass bridge and between the southern edge of the broken section of the bridge and the checkpoint of the armed formations.

On the evening of 18 October, the SMM camera in **Zolote** recorded 15 projectiles in flight at an assessed range of 2-4km south-east, assessed as inside the disengagement area and three projectiles in flight at an assessed range of 3-5km east-north-east and east, assessed as outside the disengagement area but within its 5km periphery. The camera also recorded two projectiles in flight at an assessed range of 1-2km east-south-east and south-east (unable to assess whether inside or outside the disengagement area).

On 19 October, inside the disengagement area near Zolote, the SMM continued seeing at least 25 Ukrainian Armed Forces personnel clearing and burning vegetation on both sides of road T-1316, up to about 750m south of the disengagement area's northern edge. The Mission saw four additional Hesco-type barriers and saw around ten Ukrainian Armed Forces personnel adding concrete barriers at a [previously reported](#) position on the eastern shoulder of road T-1316, about 40m south of the area's northern edge. Inside the disengagement area, the SMM saw six members of the armed formations and an anti-aircraft gun (ZU-23, 23mm), about 650m east of road T-1316 and about 100m north of the area's southern edge.

On the same day, outside the disengagement area, at the checkpoint of the Ukrainian Armed Forces about 300m north of the disengagement area, the SMM saw an armoured ambulance vehicle (MT-LB variant) covered with camouflage netting and an armoured personnel carrier (KrAZ Cougar) with a heavy-machine gun mounted on it, facing south. The Mission saw about 20 Ukrainian Armed Forces personnel and four vehicles (including trench diggers and excavators) building and fortifying [previously seen](#) trenches and positions at various locations about 1km east and 750m west of road T-1316 and up to 2km north of the northern edge of the disengagement area.

On 20 October, inside the Zolote disengagement area, the SMM saw two Ukrainian Armed Forces personnel inside trenches on the western side of T-1316 road south of the railway tracks. Positioned on the southern edge of the disengagement area, the SMM heard an undetermined explosion and 24 shots and bursts of small-arms and heavy-machine-gun fire at an assessed range of 2-4km north-north-east, assessed as outside the disengagement area but within its 5km periphery.

In the morning hours of 19 October, positioned about 1km east-north-east of Bohdanivka (government-controlled, 41km south-west of Donetsk), the SMM heard a shot of small-arms fire at an assessed range of 1-3km east, assessed as inside **the disengagement area near Petrivske** (non-government-controlled, 41km south of Donetsk), and two undetermined explosions at an assessed range of 5-7km north-north-east, 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 43 weapons in violation of withdrawal lines in government-controlled areas of Donetsk region and non-government-controlled areas of Luhansk region. It also observed 96 weapons beyond withdrawal lines but outside of designated storage sites in government-controlled areas of Donetsk region and non-government-controlled areas of Luhansk region (for further details, see the tables below).

Weapons that the SMM could not verify as withdrawn⁶

At a heavy weapons holding area in non-government-controlled areas of Luhansk region
19 October

The SMM noted that 16 self-propelled howitzers (2S1 *Gvozdika*, 122mm) and six towed howitzers (D-30 *Lyagushka*, 122mm) were present and no weapons were missing.

Indications of military and military-type presence in the security zone⁷

The SMM observed military and military-type presence, armoured combat vehicles, armoured personnel carriers and infantry fighting vehicles in the security zone, on both sides of the contact line, including in residential areas of Pavlopil (government-controlled, 84km south of Donetsk) and Kadiivka (formerly Stakhanov, non-government-controlled, 50km west of Luhansk) (for more details, see the table below).

On 18 October, about 3.3km north of Shyrokyne (government-controlled, 100km south of Donetsk), an SMM mid-range unmanned aerial vehicle (UAV) spotted a new 50m trench branching off an existing 380m trench, assessed as belonging to the Ukrainian Armed Forces and extending towards the forward positions of the armed formations, located about 1km east (not seen in the imagery before 12 September 2019).

SMM facilitation of operation of civilian infrastructure

On 19 and 20 October, the Mission continued to facilitate the operation of the Donetsk Filtration Station (15km north of Donetsk) and monitor the security situation in the area of the pumping station near Vasylivka (non-government-controlled, 20km north of Donetsk).

Anti-tank mines near Vodiane, demining on road T-0504 south west of Molodizhne and unexploded ordnance (UXO) near Verkhnoшыrovkivske

On 18 October, an SMM mid-range UAV spotted [again](#) about 30 anti-tank mines (TM-62) laid in two rows in a field on the south-eastern edge of Vodiane (government-controlled, 94km south of Donetsk).

⁶ The SMM observed weapons that could not be verified as withdrawn, as their storage did not comply with the criteria set out in the 16 October 2015 notification from the SMM to the signatories of the Package of Measures on effective monitoring and verification of the withdrawal of heavy weapons.

⁷ The hardware mentioned in this section is not proscribed by the provisions of the Minsk agreements on the withdrawal of weapons.

On 19 October, at a checkpoint of the armed formations, about 1.7km south-west of Molodizhne (non-government-controlled, 63km north-west of Luhansk), the Mission saw four deminers from non-government-controlled areas and a member of the armed formations (wearing an armband with “JCCC” written on it) carrying out demining near road T-0504 and going towards the fields west of the said road. During the same day, the SMM recorded three explosions, assessed as controlled detonations of UXO.

On 19 and 20 October, in a field 1km west of Verkhnohyrokiivske (formerly Oktiabr, non-government-controlled, 85km south of Donetsk), the SMM [again](#) saw a piece of an unexploded 120mm mortar round embedded about 0.5m north of a road. On 20 October, 40m and 300m west of the said mortar round, the Mission saw for the first time a complete rocket-propelled grenade and another piece of partially detonated ordnance, assessed as a rocket-propelled grenade (RPG OG-7).

Situation at checkpoints along the contact line

The SMM continues to see long queues at the entry-exit checkpoints (EECPs) of the Ukrainian Armed Forces and at checkpoints of the armed formations along the contact line. On 19 October, at a checkpoint on highway H-15 near Kreminets (non-government-controlled, 16km south-west of Donetsk), the SMM saw about 260 cars, 11 buses and 70 pedestrians queueing to travel towards government-controlled areas and at least 90 cars, seven buses and 15 pedestrians in the opposite direction.

At the EECP near Marinka (government-controlled, 23km south of Donetsk), the Mission saw about 35 cars, a bus and about 200 pedestrians queueing to travel towards government-controlled areas and about 45 cars, two buses and about 50 pedestrians in the opposite direction.

On 20 October, at a checkpoint near Horlivka (non-government-controlled, 39km north-east of Donetsk), the SMM saw about 200 cars and 50 pedestrians queueing to travel towards government-controlled areas and about 100 cars, six buses and about 300 pedestrians in the opposite direction. At the same location, the Mission saw ongoing construction of a new checkpoint of the armed formations, with a large part of the construction site was covered with freshly poured cement.

Gatherings marking the European Anti-Trafficking Day

On 19 October in Kyiv, the SMM saw about 200 people dressed in black (men and women, mainly young adults) gathered at *Maidan Nezalezhnosti* and marching through the city centre on the occasion of the European Anti-Trafficking Day. The Mission monitored similar gatherings in Kherson and Odessa on 18 October where 31 to 110 people took part in a peaceful event.

The Mission continued monitoring in Lviv, Ivano-Frankivsk, Kharkiv, Dnipro and Chernivtsi.

***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 16 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.

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 allowed the SMM to proceed only after about 25 minutes of waiting.

Other impediments:

- On the night of 17-18 October, an SMM long-range UAV lost its GPS signal due to signal interference, assessed as caused by probable jamming, while flying between Kostiantynivka (government-controlled, 60km north of Donetsk) and Zorynsk (non-government-controlled, 54km south-west of Luhansk) and between Kypuche (formerly Artemivsk, non-government-controlled, 46km west of Luhansk) and Buhaivka (non-government-controlled, 37km south-west of Luhansk).⁸
- On 19 October, an SMM mini-UAV lost its GPS signal due to signal interference, assessed as caused by probable jamming, while flying in the vicinity of Kachkarske (non-government-controlled, 91km south of Donetsk).

⁸ The interference could have originated from anywhere within a radius of kilometres from the UAVs' positions.

Table of weapons

Weapons in violation of the withdrawal lines

Date	No.	Type	Location	Source of observation
Government-controlled areas				
18/10/2019	2	Towed howitzer (D-20, 152mm)	2.5km south-west of Ozarianivka (formerly Pershe Travnia, 52km north of Donetsk)	Mini-UAV
18/10/2019	3	Self-propelled howitzer (2S3 <i>Akatsiya</i> , 152mm)	At the railway station in Kostiantynivka (60km north of Donetsk)	Patrol
19/10/2019	4	Multiple launch rocket system (probable BM-21 <i>Grad</i> , 120mm)	Near Dachenske (49km north-west of Donetsk)	Patrol
Non-government-controlled areas				
18/10/2019	16	Self-propelled howitzer (2S1 <i>Gvozdika</i> , 122mm)	In a training area near Buhaivka (37km south-west of Luhansk)	Long-range UAV
	12	Towed howitzer (D-30 <i>Lyagushka</i> , 122mm)		
	6	Anti-tank gun (MT-12 <i>Rapira</i> , 100mm)		

Beyond withdrawal lines but outside of designated storage sites

Date	No.	Type	Location	Source of observation
Government-controlled areas				
18/10/2019	22	Tank (T-72)	Railway station in Kostiantynivka (60km north of Donetsk)	Long-range UAV
19/10/2019	1	Self-propelled howitzer (2S3 <i>Akatsiya</i> , 152mm)	Near the railway station in Druzhkivka (72km north of Donetsk)	Patrol
	4	Self-propelled howitzer (2S3 <i>Akatsiya</i> , 152mm)	In Oleksiievo-Druzhkivka (66km north of Donetsk)	Patrol
	11	Tank (ten T-64B and one T-72B)	Railway station in Kostiantynivka (60km north of Donetsk)	
Non-government-controlled areas				
18/10/2019	22	Tank (T-64)	In a training area near Buhaivka (37km south-west of Luhansk) (in the same area, the UAV also spotted at least 48 infantry fighting vehicles (at least 40 BMP-1 and 8 BMP-2) ⁹	Long-range UAV
	8	Self-propelled howitzer (2S1 <i>Gvozdika</i> , 122mm)	In a training area near Myrne (28km south-west of Luhansk) (in the same area, the UAV also spotted at least 50 infantry fighting vehicles (BMP variant) ¹⁰	
	9	Towed howitzer (D-30 <i>Lyagushka</i> , 122mm)		
	5	Anti-tank gun (MT-12 <i>Rapira</i> , 100mm)		
	14	Tank (T-64)		

⁹ ACVs mentioned in this section are not proscribed by the provisions of the Minsk agreements on the withdrawal of weapons.

¹⁰ Ibid

Table of military and military-type presence in the security zone¹¹

Date	No.	Type	Location	Source of observation
Government-controlled areas				
18/10/2019	2	Armoured combat vehicle	7km east of Myronivskiyi (62km north-east of Donetsk), near forward positions of the Ukrainian Armed Forces	Long-range UAV
	2	Armoured combat vehicle	Near Troitske (69km west of Luhansk)	
	3	Infantry fighting vehicles (BMP-1)	Near Lobacheve (17km north-west of Luhansk)	
18/10/2019	1	New 50m trench branching off an existing 380m trench (not seen in the imagery before 12 September 2019)	3.3km north of Shyrokyne (100km south of Donetsk)	Mini UAV
19/10/2019	1	Armoured personnel carrier (BTR-70)	Near Novobakhmutivka (28km north of Donetsk)	Patrol
20/10/2019	1	Infantry fighting vehicle (BMP-1)	Near Popasna (69km west of Luhansk)	Patrol
20/10/2019	1	Armoured personnel carrier (BTR-70)	Near Berezove (31km south-west of Donetsk)	Patrol
	1	Infantry fighting vehicle (BMP-2)	In a residential area in Pavlopil (84km south of Donetsk)	Patrol
Non-government-controlled areas				
18/10/2019	1	Armoured personnel carrier (BTR variant)	In a residential area in Kadiivka (formerly Stakhanov, 50km west of Luhansk)	Long-range UAV
	1	Armoured combat vehicle	Near Sentianivka (formerly Frunze, 44km west of Luhansk)	

¹¹ 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 20 October 2019¹²

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	2-4km SSE	Recorded	1	Projectile	WSW to ENE	N/K	18-Oct, 19:59
SMM camera in Krasnohorivka (government-controlled, 21km W of Donetsk)	2-4km ESE	Recorded	1	Projectile	In vertical flight	N/K	18-Oct, 20:43
	2-4km ESE	Recorded	1	Explosion	Undetermined	N/K	18-Oct, 22:03
	2-4km ESE	Recorded	1	Projectile	WNW to ESE	N/K	19-Oct, 01:51
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	2-4km ENE	Recorded	1	Projectile	NNW to SSE	N/K	18-Oct, 22:34
SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km S of Donetsk)	2-4km NNE	Recorded	1	Projectile	In vertical flight	N/K	18-Oct, 21:46
	2-4km NNE	Recorded	3	Explosion	Undetermined	N/K	18-Oct, 22:02
SMM camera at entry-exit checkpoint in Pyshchevyk (government-controlled, 84km S of Donetsk)	1-2km S	Recorded	1	Projectile	NNW to SSE	N/K	18-Oct, 18:34
	1-2km S	Recorded	1	Explosion	Undetermined	N/K	18-Oct, 18:34
	1-2km S	Recorded	1	Projectile	NNW to SSE	N/K	18-Oct, 18:38
SMM camera 1km SW of Shyrokyne (government-controlled, 100km S of Donetsk)	3-6km N	Recorded	14	Projectile	WNW to ESE	N/K	18-Oct, 19:38
	2-4km NNE	Recorded	1	Explosion		N/K	18-Oct, 21:50
	2-4km NNE	Recorded	1	Projectile	ESE to WNW	N/K	18-Oct, 21:50
	2-4km NNE	Recorded	1	Projectile	ESE to WNW	N/K	18-Oct, 21:54
	2-4km NNE	Recorded	1	Explosion		N/K	18-Oct, 21:55
	2-4km NNE	Recorded	1	Projectile	ESE to WNW	N/K	18-Oct, 21:55
	2-4km NNE	Recorded	1	Projectile	ESE to WNW	N/K	18-Oct, 21:56
SMM camera in Svitlodarsk (government-controlled, 57km NE of Donetsk)	2-7km E	Recorded	24	Projectile	NNW to SSE	N/K	18-Oct, 18:43
	2-7km ESE	Recorded	12	Explosion	Undetermined	N/K	18-Oct, 18:43
SE part of Avdiivka (government-controlled, 17km N of Donetsk)	1-2km SE	Heard	1	Explosion	Undetermined	N/K	19-Oct, 09:10
	1km SE	Heard	1	Shot		Small arms	19-Oct, 09:51

¹² 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.

Avdiivka (government-controlled, 17km N of Donetsk)	2-3km NE	Heard	4	Burst		Small arms	19-Oct, 10:26
	2-3km NE	Heard	9	Burst		Small arms	19-Oct, 10:29-10:31
	2-3km NNE	Heard	6	Shot		Small arms	19-Oct, 10:40
	2-3km NNE	Heard	18	Burst		Small arms	19-Oct, 10:43
	2-3km NNE	Heard	1	Burst		Small arms	19-Oct, 10:44
	2-3km NNE	Heard	2	Shot		Small arms	19-Oct, 10:46
	1-2km SE	Heard	1	Shot		Small arms	19-Oct, 11:07
	1-2km SSE	Heard	3	Shot		Small arms	19-Oct, 11:12
About 6km N of Donetsk city centre (non-government-controlled)	2-3km NW	Heard	31	Explosion	Undetermined	N/K	19-Oct, 14:15-14:21
	2-3km NW	Heard	1	Explosion	Undetermined	N/K	19-Oct, 14:29
About 4km NW of Debaltseve (non-government-controlled, 58km NE of Donetsk)	3-4km SW	Heard and saw	2	Explosion	Impact	N/K	19-Oct, 11:53
	4-5km SW	Heard	1	Explosion	Undetermined	N/K	19-Oct, 12:11
Marinka (government-controlled, 23km S of Donetsk)	2-3km E	Heard	15	Burst		Small arms	19-Oct, 13:50-13:55
	2-3km E	Heard	3	Shot		Small arms	19-Oct, 13:50-13:55
About 800m S of Novohryhorivka (non-government-controlled, 61km NE of Donetsk)	2km W	Heard	4	Shot		Small arms	19-Oct, 09:45
Oleksandrivka (non-government-controlled, 20km SW of Donetsk)	1-2km W	Heard	3	Burst		Small arms	19-Oct, 12:21-12:23
	1-2km W	Heard	4	Burst		Small arms	19-Oct, 13:05-13:10
	3-4km W	Heard	4	Explosion	Undetermined	N/K	19-Oct, 13:05-13:10
	3-4km W	Heard	1	Explosion	Undetermined	N/K	19-Oct, 13:11
	1-2km W	Heard	15	Burst		Small arms	19-Oct, 13:12-13:15
SE part of Pervomaiske (government-controlled, 17km NW of Donetsk)	2-3km NE	Heard	55	Shot		Small arms	19-Oct, 10:20
	2-3km NE	Heard	8	Burst		Small arms	19-Oct, 10:20
Staromykhailivka (non-government-controlled, 15km W of Donetsk)	3-4km W	Heard	1	Explosion	Undetermined	N/K	19-Oct, 10:10
About 1km E of Kruta Balka (non-government-controlled, 16km N of Donetsk)	2-3km W	Heard	1	Explosion	Undetermined	N/K	19-Oct, 10:23
	2-3km SE	Heard	5	Shot		HMG	19-Oct, 10:29
	2-3km SE	Heard	1	Burst		HMG	19-Oct, 10:29
	2-3km SE	Heard	1	Explosion	Outgoing	N/K	19-Oct, 10:31
About 1km NW of the railway station in	3-4km SW	Heard	1	Explosion	Undetermined	N/K	19-Oct, 09:09
	1-2km S	Heard	10	Shot		Small arms	19-Oct, 11:40

Yasynuvata (non-government-controlled, 16km NE of Donetsk)	3-4km S	Heard	2	Explosion	Undetermined	N/K	19-Oct, 11:53
	3-4km S	Heard	2	Explosion	Undetermined	N/K	19-Oct, 12:20
	3-4km S	Heard	1	Explosion	Undetermined	N/K	19-Oct, 12:40
	3-4km S	Heard	1	Explosion	Undetermined	N/K	19-Oct, 12:46
	3-4km S	Heard	4	Explosion	Undetermined	N/K	19-Oct, 12:52
	3-4km S	Heard	6	Explosion	Undetermined	N/K	19-Oct, 13:02-13:03
Railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	3-4km NNW	Heard	2	Explosion	Undetermined	N/K	19-Oct, 13:43
	3-4km SSW	Heard	21	Explosion	Undetermined	N/K	19-Oct, 14:14
	2-3km SSW	Heard	120	Shot		Small arms	19-Oct, 14:14-14:20
E part of Krasnohorivka (government-controlled, 21km W of Donetsk)	5-7km NE	Heard	2	Explosion	Undetermined	N/K	19-Oct, 11:54
	5-7km NE	Heard	3	Explosion	Undetermined	N/K	19-Oct, 12:22-13:04
About 2.5km SSE of Lomakyne (government-controlled, 93km S of Donetsk)	2-3km NE	Heard	8	Burst		Small arms	19-Oct, 10:03-10:05
About 1km ENE of Bohdanivka (government-controlled, 41km SW of Donetsk)	5-6km NNE	Heard	1	Explosion	Undetermined (assessed as outside the Petrivske disengagement area)	N/K	19-Oct, 10:12
	1-3km E	Heard	1	Shot	Assessed inside the Petrivske disengagement area	Small arms	19-Oct, 10:50
	5-7km NNE	Heard	1	Explosion	Undetermined (assessed as outside the Petrivske disengagement area)	N/K	19-Oct, 11:55
About 1km NNW of Pyshecheyk (government-controlled, 84km S of Donetsk)	3-5km E	Heard	7	Burst		HMG	19-Oct, 10:40-00:00
	2-3km NE	Heard	6	Shot		Small arms	19-Oct, 13:59-14:04
	4-5km SSE	Heard	1	Explosion	Undetermined	N/K	19-Oct, 14:02
	2-3km NE	Heard	2	Shot		Small arms	19-Oct, 14:11-14:12
	2-3km NE	Heard	6	Shot		Small arms	19-Oct, 14:15-14:20
	2-3km NE	Heard	7	Shot		Small arms	19-Oct, 14:37-14:39
About 2km NE of Chernenko (government-controlled, 86km S of Donetsk)	2-3km ENE	Heard	2	Burst		HMG	19-Oct, 11:15
	2-3km ENE	Heard	1	Explosion	Undetermined	N/K	19-Oct, 11:20
	2-3km E	Heard	1	Explosion	Undetermined	N/K	19-Oct, 11:27
	1-2km NE	Heard	1	Explosion	Undetermined	N/K	19-Oct, 11:27
About 2km SE of Lebedynske (government-controlled, 99km S of Donetsk)	2-3km N	Heard	11	Shot		Small arms	19-Oct, 12:47
	2-3km N	Heard	1	Explosion	Undetermined	N/K	19-Oct, 12:47
	2-3km N	Heard	3	Burst		HMG	19-Oct, 12:47
	2-3km N	Heard	3	Shot		Small arms	19-Oct, 12:47
	2-3km N	Heard	7	Shot		AGL	19-Oct, 12:47
	2-3km N	Heard		Burst	Uncountable	HMG	19-Oct, 13:03
	2-3km N	Heard		Burst	Uncountable	HMG	19-Oct, 13:05

	2-3km NE	Heard	3	Burst		Small arms	19-Oct, 13:08
	2-3km N	Heard		Shot	Uncountable	AGL	19-Oct, 13:18
	2-3km N	Heard	4	Shot		Small arms	19-Oct, 13:18
	2-3km N	Heard	2	Burst		HMG	19-Oct, 13:30-13:40
	2-3km N	Heard		Burst	Uncountable	HMG	19-Oct, 13:41-13:43
Orlivske (government-controlled, 82km S of Donetsk)	6-8km ENE	Heard	9	Explosion	Undetermined	N/K	19-Oct, 13:15-13:28
NNW part of Sakhanka (non-government-controlled, 97km S of Donetsk)	2-3km W	Heard	33	Shot		Small arms	19-Oct, 13:15-13:22
	2-3km W	Heard	15	Burst		HMG	19-Oct, 13:15-13:22
	2-3km W	Heard	18	Burst		Cannon 30mm	19-Oct, 13:15-13:22
Horlivka (non-government-controlled, 39km NE of Donetsk)	3-5km WNW	Heard	1	Explosion	Undetermined	N/K	18-Oct, 21:14
	2-3km WNW	Heard	6	Burst		HMG	18-Oct, 21:15
	3-5km W	Heard	2	Explosion	Undetermined	N/K	18-Oct, 21:16
	3-5km WSW	Heard	2	Explosion	Undetermined	N/K	18-Oct, 21:19
	2-3km WNW	Heard	3	Burst		HMG	18-Oct, 21:19
	2-3km W	Heard	3	Burst		HMG	18-Oct, 21:22
	3-5km W	Heard	1	Explosion	Undetermined	N/K	18-Oct, 21:29
	2-3km WNW	Heard	3	Burst		HMG	18-Oct, 21:30
	3-5km WNW	Heard	1	Explosion	Undetermined	N/K	18-Oct, 21:33
	3-5km WNW	Heard	2	Explosion	Undetermined	N/K	18-Oct, 21:36
	3-5km W	Heard	2	Explosion	Undetermined	N/K	18-Oct, 21:38
	2-3km WNW	Heard	7	Burst		HMG	18-Oct, 21:39-21:41
	2-3km W	Heard	2	Burst		HMG	18-Oct, 21:48
	3-5km WNW	Heard	1	Explosion	Undetermined	N/K	18-Oct, 21:57
	3-5km WNW	Heard	1	Explosion	Undetermined	N/K	18-Oct, 22:30
Svitlodarsk (government-controlled, 57km NE of Donetsk)	3-4km SE	Heard	10	Burst		HMG	18-Oct, 18:40-18:45
	3-4km SE	Heard	3	Explosion	Undetermined	N/K	18-Oct, 20:19-20:21
	5-6km SE	Heard	3	Explosion	Undetermined	N/K	18-Oct, 20:45
	3-4km SE	Heard	5	Burst		HMG	18-Oct, 21:12
	3-4km SE	Heard	1	Explosion	Undetermined	N/K	18-Oct, 21:13
	4-5km WSW	Heard	3	Explosion	Undetermined	N/K	18-Oct, 21:30
	3-4km SE	Heard	2	Explosion	Undetermined	N/K	18-Oct, 21:35
	3-4km SE	Heard	1	Explosion	Undetermined	N/K	18-Oct, 22:51
3-4km SE	Heard	2	Burst		HMG	18-Oct, 22:52	

	3-4km SE	Heard	3	Burst		HMG	18-Oct, 23:17
	3-5km SSE	Heard	16	Burst		HMG	19-Oct, 09:02-09:05
	3-5km SSE	Heard	11	Burst		HMG	19-Oct, 09:59-10:01
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	1-2km SE	Heard	1	Shot		Small arms	19-Oct, 09:55
	1-2km E	Heard	1	Explosion	Undetermined	N/K	19-Oct, 10:09
	1-2km E	Heard	1	Explosion	Undetermined	N/K	19-Oct, 10:22
	1-2km SE	Heard	2	Explosion	Undetermined	N/K	19-Oct, 10:31
	1-2km SE	Heard	2	Explosion	Undetermined	N/K	19-Oct, 10:58
	1-2km E	Heard	1	Shot		Small arms	19-Oct, 11:19
	1-2km E	Heard	4	Burst		Small arms	19-Oct, 11:24
	1-2km S	Heard	2	Explosion	Undetermined	N/K	19-Oct, 13:01-13:03
	3-4km S	Heard	1	Explosion	Undetermined	N/K	19-Oct, 13:18
Troitske (government-controlled, 30km N of Donetsk)	4-5km NW	Heard	1	Explosion	Undetermined	N/K	19-Oct, 10:20
	5-6km NW	Heard	2	Explosion	Undetermined	N/K	19-Oct, 10:32
E Edge of Novobakhmutivka (government-controlled, 28km N of Donetsk)	4-5km E	Heard	2	Explosion	Undetermined	N/K	19-Oct, 11:58
	4-5km NE	Heard	1	Explosion	Undetermined	N/K	19-Oct, 12:12
SMM camera in Zolote (government-controlled, 60km W of Luhansk)	1-2km SE	Recorded	2	Projectile	NNE to SSW (unable to assess whether inside or outside the disengagement area)	N/K	18-Oct, 20:13
	1-2km ESE	Recorded	1	Projectile	NNE to SSW (unable to assess whether inside or outside the disengagement area)	N/K	18-Oct, 20:14
	2-4km SE	Recorded	11	Projectile	NE to SW (assessed as inside the disengagement area)	N/K	18-Oct, 20:21
	2-4km SE	Recorded	3	Projectile	NE to SW (assessed as inside the disengagement area)	N/K	18-Oct, 20:22
	3-5km ENE	Recorded	1	Projectile	NW to SE (assessed as outside the disengagement area)	N/K	18-Oct, 21:10
	3-5km E	Recorded	1	Projectile	In vertical flight (assessed as outside the disengagement area)	N/K	18-Oct, 22:06
	3-5km E	Recorded	1	Projectile	SSW to NNE (assessed as outside the disengagement area)	N/K	18-Oct, 22:06
	2-4km SE	Recorded	1	Projectile	In vertical flight (assessed as inside the disengagement area)	N/K	18-Oct, 22:12
N edge of	5-10km NE	Heard	2	Explosion	Undetermined	N/K	19-Oct, 02:38

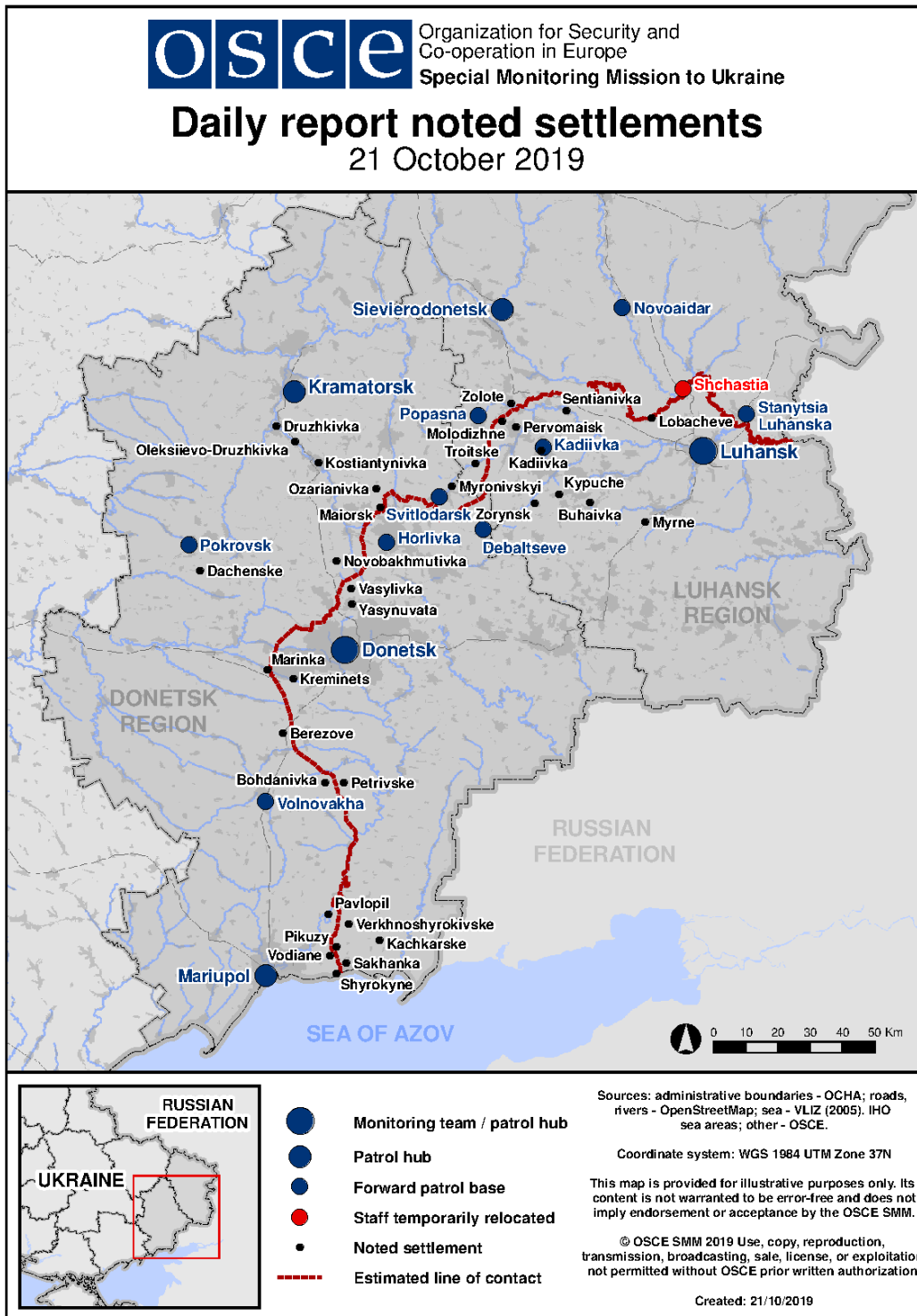
Popasna (government-controlled, 69km W of Luhansk)	5-10km NE	Heard	2	Explosion	Undetermined	N/K	19-Oct, 02:57
	5-10km NE	Heard	10	Burst		HMG	19-Oct, 03:00-03:05
	5-10km NE	Heard	2	Explosion	Undetermined	RPG	19-Oct, 03:15-03:18
	5-10km NE	Heard	2	Explosion	Undetermined	RPG	19-Oct, 03:25-03:28
E edge of Popasna (government-controlled, 69 km W of Luhansk)	2-3km SE	Heard	1	Burst		Small arms	19-Oct, 10:44
	9-10km SE	Heard	1	Explosion	Undetermined	Artillery	19-Oct, 11:05
S edge of Popasna (government-controlled, 69 km W of Luhansk)	5-10km S	Heard	1	Explosion	Undetermined	N/K	19-Oct, 12:38
1.8km SW of Molodizhne (non-government-controlled, 63km NW of Luhansk)	0.7-1.2km W	Heard	3	Shot		N/K	19-Oct, 10:30-10:43
1km NW of Perevalsk (non-government-controlled, 38km W of Luhansk)	4-6km ESE	Heard	2	Explosion	Undetermined	N/K	19-Oct, 11:17
2.2km ENE of Buhaivka (non-government-controlled, 37km SW of Luhansk)	1km WSW	Heard	2	Explosion	Undetermined	N/K	19-Oct, 12:05
SMM camera in Avdiivka (government-controlled, 17km N of Donetsk)	3-5km SE	Recorded	1	Illumination flare	In vertical flight (also recorded by the SMM camera at the Oktiabr Mine)	N/K	20-Oct, 02:40
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	2-4km SE	Recorded	16	Projectile	WSW to ENE	N/K	19-Oct, 20:09
	2-4km SE	Recorded	18	Projectile	WSW to ENE	N/K	19-Oct, 20:11
	2-4km SE	Recorded	3	Projectile	WSW to ENE	N/K	19-Oct, 20:16
	2-4km SE	Recorded	1	Projectile	NE to SW	N/K	19-Oct, 20:16
	2-4km SSE	Recorded	1	Projectile	NE to SW	N/K	19-Oct, 20:16
	2-4km SSE	Recorded	3	Projectile	ENE to WSW	N/K	19-Oct, 20:21
	2-4km SSE	Recorded	2	Projectile	WSW to ENE	N/K	19-Oct, 20:21
	2-4km SE	Recorded	4	Projectile	WSW to ENE	N/K	19-Oct, 20:21
	2-4km SSE	Recorded	11	Projectile	WSW to ENE	N/K	19-Oct, 20:22
SMM camera in Krasnohorivka (government-controlled, 21km W of Donetsk)	2-4km ESE	Recorded	1	Illumination flare	In vertical flight	N/K	19-Oct, 20:33
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	1-3km ENE	Recorded	1	Projectile	N to S	N/K	19-Oct, 20:04
	2-4km ENE	Recorded	1	Illumination flare	In vertical flight	N/K	19-Oct, 20:23
	2-4km ENE	Recorded	3	Projectile	N to S	N/K	19-Oct, 20:23
	1-3km ENE	Recorded	1	Projectile	N to S	N/K	19-Oct, 20:45
	2-4km ESE	Recorded	1	Illumination flare	In vertical flight	N/K	19-Oct, 21:04

	2-4km E	Recorded	1	Illumination flare	In vertical flight	N/K	19-Oct, 21:54
	2-4km ENE	Recorded	1	Projectile	N to S	N/K	19-Oct, 22:14
	2-4km ENE	Recorded	1	Projectile	N to S	N/K	19-Oct, 22:28
	2-4km ENE	Recorded	1	Projectile	N to S	N/K	19-Oct, 22:40
	2-4km ENE	Recorded	4	Projectile	N to S	N/K	19-Oct, 22:45
	2-4km ENE	Recorded	1	Projectile	S to N	N/K	19-Oct, 22:47
	2-4km ENE	Recorded	4	Projectile	N to S	N/K	19-Oct, 22:48
	2-4km ENE	Recorded	5	Projectile	NW to SE	N/K	19-Oct, 22:48
	2-4km ENE	Recorded	1	Projectile	SW to NE	N/K	19-Oct, 22:48
	2-4km ENE	Recorded	1	Projectile	N to S	N/K	19-Oct, 22:49
	2-4km ENE	Recorded	7	Projectile	N to S	N/K	19-Oct, 22:50
	2-4km ENE	Recorded	12	Projectile	S to N	N/K	19-Oct, 22:50
	2-4km ENE	Recorded	7	Projectile	N to S	N/K	19-Oct, 22:51
	2-4km E	Recorded	1	Projectile	N to S	N/K	19-Oct, 22:58
	2-4km E	Recorded	1	Projectile	N to S	N/K	19-Oct, 23:03
	2-4km ENE	Recorded	24	Projectile	N to S	N/K	20-Oct, 00:19
	2-4km ENE	Recorded	2	Projectile	N to S	N/K	20-Oct, 00:28
	2-4km E	Recorded	1	Illumination flare	In vertical flight	N/K	20-Oct, 02:11
SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km S of Donetsk)	2-4km N	Recorded	2	Projectile	SSW to NNE	N/K	19-Oct, 18:45
Avdiivka (government-controlled, 17km N of Donetsk)	1-2km SE	Heard	1	Shot		Small arms	20-Oct, 11:35
SE part of Avdiivka (government-controlled, 17km N of Donetsk)	1-2km NE	Heard	1	Explosion	Undetermined	N/K	20-Oct, 12:57
About 4km NW of Debaltseve (non-government-controlled, 58km NE of Donetsk)	3km NNW	Heard	1	Explosion	Undetermined	N/K	20-Oct, 13:16
About 1km NW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	3km WSW	Heard	1	Explosion	Undetermined	N/K	20-Oct, 09:16
	3km WSW	Heard	1	Explosion	Undetermined	N/K	20-Oct, 09:18
	2km SW	Heard	20	Burst		HMG	20-Oct, 13:35-13:40
	2km SW	Heard	8	Burst		HMG	20-Oct, 13:45
	2km SW	Heard	9	Burst		HMG	20-Oct, 13:50
	2km SW	Heard	10	Burst		HMG	20-Oct, 13:52
	2km SW	Heard	22	Burst		HMG	20-Oct, 14:00
Pikuzy (formerly Kominternove, non-government-controlled, 92km S of Donetsk)	N/K S	Heard	2	Shot		Small arms	20-Oct, 12:10
	N/K NW	Heard	1	Shot		Small arms	20-Oct, 12:10

About 2km NE of Chernenko (government-controlled, 86km S of Donetsk)	4km SE	Heard	8	Burst		Cannon 30mm	20-Oct, 09:32-09:39
	2km S	Heard	4	Burst		Cannon 30mm	20-Oct, 09:32-09:39
	2km S	Heard	3	Shot		Small arms	20-Oct, 09:32-09:39
	2km E	Heard	2	Shot		AGL	20-Oct, 09:53-09:58
	2km E	Heard	8	Burst		HMG	20-Oct, 09:53-09:58
	N/K SSE	Heard	1	Explosion	Undetermined	N/K	20-Oct, 10:11
	3-4km ESE	Heard	2	Explosion	Undetermined	N/K	20-Oct, 10:19
	N/K SSE	Heard	1	Explosion	Undetermined	N/K	20-Oct, 12:53
	3-4km E	Heard	1	Explosion	Undetermined	N/K	20-Oct, 13:00
	N/K SE	Heard	1	Explosion	Outgoing	N/K	20-Oct, 13:07
	N/K SE	Heard	1	Explosion	Impact	N/K	20-Oct, 13:07
	N/K SSE	Heard	1	Explosion	Undetermined	N/K	20-Oct, 13:15
About 2km SE of Lebedynske (government-controlled, 99km S of Donetsk)	2km N	Heard	1	Explosion	Outgoing	Mortar	20-Oct, 11:17
	2km N	Heard	11	Explosion	Undetermined	N/K	20-Oct, 11:36
Lebedynske (government-controlled, 99km S of Donetsk)	1km NE	Heard	2	Shot		AGL	20-Oct, 11:52
About 1km NE of Bohdanivka (government-controlled, 41km SW of Donetsk)	5-6km NE	Heard	1	Explosion	Undetermined (assessed as outside the Petrivske disengagement area)	N/K	20-Oct, 09:18-09:20
	6-8km NNW	Heard	2	Explosion	Undetermined	N/K	20-Oct, 09:18-09:20
Svitlodarsk (government-controlled, 57km NE of Donetsk)	3-4km SE	Heard	1	Explosion	Undetermined	N/K	19-Oct, 20:25
	3-4km SE	Heard	2	Burst		HMG	19-Oct, 20:29
	3-4km SE	Heard	5	Burst		HMG	19-Oct, 21:45
	3-4km SE	Heard	10	Burst		HMG	19-Oct, 21:50
	3-4km SE	Heard	5	Burst		HMG	19-Oct, 22:36
	3-4km SE	Heard	3	Burst		HMG	19-Oct, 22:52
	3-4km SE	Heard	3	Burst		HMG	19-Oct, 22:57
	3-4km SE	Heard	3	Burst		HMG	19-Oct, 23:38
	3-4km SE	Heard	3	Explosion	Undetermined	N/K	19-Oct, 23:58-23:59
	2-3km SW	Heard	1	Explosion	Undetermined	N/K	20-Oct, 10:30
	2-3km SW	Heard	2	Burst		HMG	20-Oct, 10:30
	2-3km SE	Heard	1	Explosion	Undetermined	N/K	20-Oct, 13:21
2km S of Novozvanivka (government-controlled, 70km W of Luhansk)	3-5km E	Heard	1	Explosion	Undetermined	N/K	20-Oct, 10:59
S edge of the disengagement area near Zolote-	2-4km NNE	Heard	11	Shot	Assessed as outside the disengagement area	Small arms	20-Oct, 11:57-12:10

(government-controlled, 60km W of Luhansk)	2-4km NNE	Heard	13	Burst	Assessed as outside the disengagement area	HMG	20-Oct, 11:57-12:10
	2-4km NNE	Heard	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	20-Oct, 11:57-12:10
W edge of Pervomaisk (non-government-controlled, 58km W of Luhansk)	5-7km SW	Heard	112	Explosion	Undetermined	N/K	20-Oct, 14:20-15:04
	5-7km SW	Heard	22	Burst		N/K	20-Oct, 14:20-15:05
N edge of Popasna (government-controlled, 69km W of Luhansk)	5-8km SE	Heard	1	Explosion	Undetermined	N/K	20-Oct, 12:38

Map of Donetsk and Luhansk regions¹³



¹³ 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).