



Daily Report 235/2019

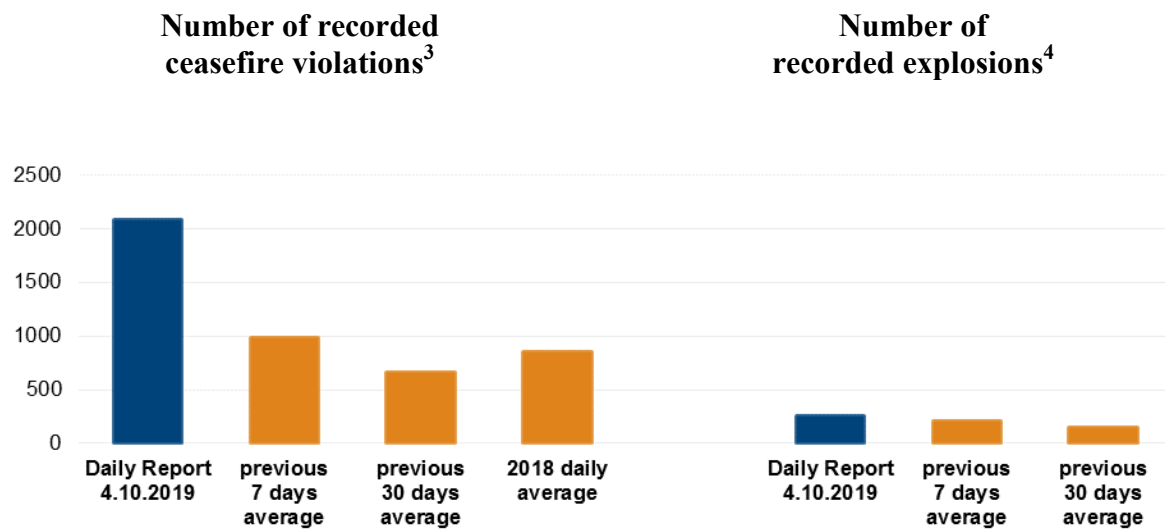
4 October 2019¹

Summary

- Compared with the previous reporting period, the SMM recorded more ceasefire violations in both Donetsk and Luhansk regions.
- The Mission saw small-arms fire damage to a functioning school in Zolote-5/Mykhailivka.
- Explosions occurred near the SMM in the Trudivski area of Donetsk city's Petrovskiyi district.
- Small-arms fire was assessed as aimed at an SMM mini-unmanned aerial vehicle near non-government-controlled Horlivka.
- Inside the Stanytsia Luhanska disengagement area, the SMM continued to observe workers from government-controlled areas working on the pedestrian bypass bridge, constructing a new bus stop and clearing and burning vegetation.
- The Mission observed weapons in violation of withdrawal lines in non-government-controlled areas, including multiple-launch rocket systems.
- The SMM saw mines near Vesela Hora and demining activities near Nyzhnie Lozove.
- The Mission spotted probable trucks near Manych and vehicles near Cheremshyne on a dirt road in the middle of the night, areas beyond government-controlled near the border with the Russian Federation where there are no border crossing facilities.
- The SMM monitored adherence to the ceasefire to facilitate the operation of the Donetsk Filtration Station, and repair works to water pipelines between Zolote-3/Stakhanovets and Popasna.
- Restrictions of the Mission's access continued, including at a checkpoint in non-government-controlled Petrivske.*
- The SMM monitored a peaceful protest in Lviv related to the latest political developments.

¹ Based on information from the Monitoring Teams as of 19:30, 3 October 2019. All times are in Eastern European Summer Time.

Ceasefire violations²



² For a complete breakdown of ceasefire violations, please see the annexed table. During the reporting period, SMM camera in southern part of the disengagement area near Zolote was not operational.

³ Including explosions.

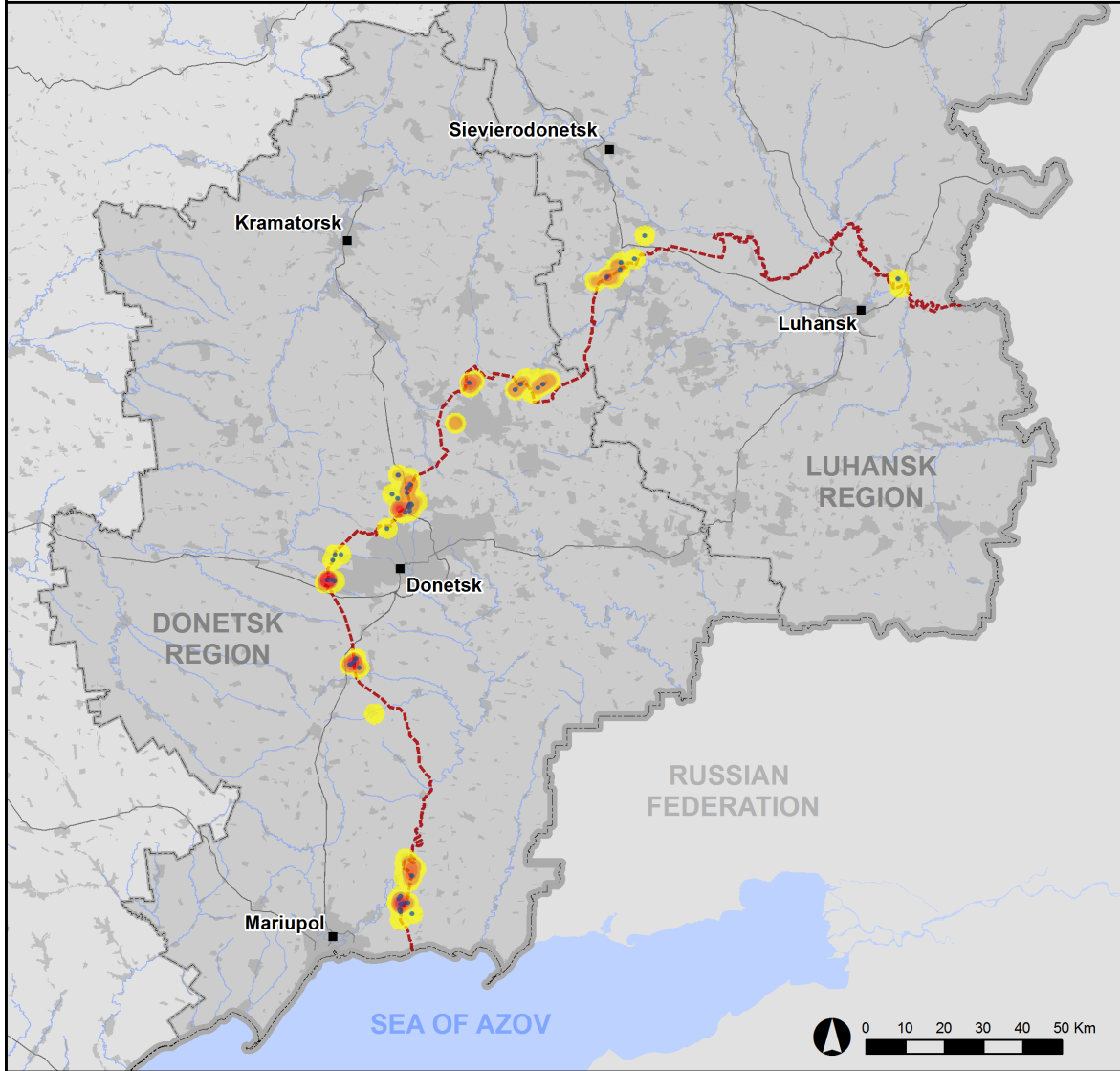
⁴ Including from unidentified weapons.

Map of recorded ceasefire violations

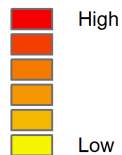


Organization for Security and
Co-operation in Europe
Special Monitoring Mission to Ukraine

Ceasefire violations observed by the SMM 3 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: 04/10/2019

In Donetsk region, the SMM recorded more ceasefire violations, including more explosions (about 240), compared with the [previous reporting period](#) (about 180 explosions). The majority of ceasefire violations were recorded in areas north-north-east of Marinka (government-controlled, 23km south-west of Donetsk), south and south-south-east of Pyshevyk (government-controlled, 84km south of Donetsk), at south-easterly directions of Berezove (non-government-controlled, 31km south-west of Donetsk) and at southerly and easterly directions of Avdiivka (government-controlled, 17km north of Donetsk).

In Luhansk region, the SMM recorded more ceasefire violations, including, however, fewer explosions (eight), compared with the [previous reporting period](#) (about 70). The majority of ceasefire violations were recorded at southerly and easterly directions of Zolote (government-controlled, 60km west of Luhansk) (see below).

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

On 3 October, the SMM observed damage from small-arms fire to a brick building of a functioning school on Myru Street in Zolote-5/Mykhailivka (non-government-controlled, 58km west of Luhansk). The SMM saw five holes in four west-facing windows (one on the first floor, two on the second floor, and two on the third floor) and shattered glass scattered on the ground below. It assessed the damage as fresh and caused by small-arms fire. Staff of the educational facility told the SMM that the school janitor had heard shooting on the same day at around 05:00 and no pupils were inside the school at that time (for previous observations see [SMM Daily Report 15 August 2019](#)).

Explosions in vicinity of the SMM patrol in Trudivski area of Donetsk city

Positioned in the Trudivski area of Donetsk city's Petrovskiyi district (non-government-controlled, 15km south-west of Donetsk city centre), the SMM heard two undetermined explosions about 200-300m north of its location, in a residential area. It immediately left the area.*

Small-arms fire assessed as directed at SMM mini unmanned aerial vehicle (UAV) near Horlivka

Positioned in the western outskirts of Horlivka (non-government-controlled, 39km north-east of Donetsk), while conducting a mini UAV flight, the Mission heard about 15 shots and five bursts of small-arms fire about 500m south assessed as aimed at the UAV, which was flying about 500m south-west of the SMM's location. The SMM safely landed the UAV and left the area.*

Stanytsia Luhanska disengagement area

On the afternoon of 2 October, the SMM saw eight workers from government-controlled areas with a dump truck constructing a bus stop (platform for passengers) directly south of the shelter of an international humanitarian organization north of the broken section of the Stanytsia Luhanska bridge (15km north-east of Luhansk) as well as 11 concrete slabs placed nearby. The SMM also saw seven workers from government-controlled areas cutting vegetation on the eastern edge of the main road 100m north of the broken section of the bridge and other workers erecting metal rails and wooden frames alongside the metal rails on the pedestrian bypass bridge.

On the morning of 3 October, the SMM saw at least seven workers from government-controlled areas fixing wooden side rails to the temporary pedestrian bypass bridge. The

Mission also saw a green container used by the same workers being moved by a crane about 20m west of the northern edge of the broken section of the bridge. At the same time, the SMM saw two workers from government-controlled areas clearing vegetation from the western side of the road about 300m north of the broken section of the bridge.

On the morning of the same day, the SMM saw at least seven members of the armed formations (wearing “JCCC” armbands) between the checkpoint of the armed formations and the broken section of the bridge. The SMM also saw nine deminers from non-government-controlled areas clearing vegetation on the southern side of the river and six fires burning east of the metal section of the bridge with thick black smoke reaching through the main pedestrian walkway.

On the afternoon of 3 October, while positioned at the northern section of the broken bridge, the SMM heard a shot of small-arms fire about 0.15-1km south-south east, assessed as inside the disengagement area. During the evening of the same day, while positioned on the eastern edge of Stanytsia Luhanska, the SMM heard two undetermined explosions and two shots of small-arms fire about 2-3km south-west, all assessed as outside the disengagement area but within 5km of its periphery.

Other disengagement areas⁵

On 30 September, outside the disengagement area near Petrivske (non-government-controlled, 41km south of Donetsk), aerial imagery available to the SMM revealed a new 120m-long trench about 300m west of the area’s western edge, assessed as belonging to the Ukrainian Armed Forces.

On the evening of 2 October, the SMM camera in Zolote recorded an undetermined explosion and a projectile in flight about 2-3km south-east, assessed as inside the disengagement area. On the same evening, the camera also recorded 19 projectiles about 1-2km south-south-east and south-east, 38 projectiles and an undetermined explosion about 3-5km south-south-west (unable to assess as inside or outside the disengagement area). The camera also recorded two projectiles and an undetermined explosion about 1-3km 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 a weapon in violation of withdrawal lines in non-government-controlled areas of Donetsk region and 15 in non-government-controlled areas of Luhansk region. The SMM also observed a weapon beyond its withdrawal lines but outside storage sites in non-government-controlled areas of Luhansk region (for more details, see the tables below).

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

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

Government-controlled areas

2 October

The SMM saw an armoured personnel carrier (APC) and a heavy machine gun (DShK) inside a concrete shelter facing south-east near the entry-exit checkpoint near Stanytsia Luhanska (16km north-east of Luhansk).

3 October

The SMM saw an infantry fighting vehicle (IFV) (BMP-2) in the eastern outskirts of Popasna (69km west of Luhansk).

Non-government-controlled areas

2 October

An SMM mini-UAV spotted an APC (MT-LB) and an armoured recovery vehicle (BTS-4A) close to a residential area in Kadiivka (formerly Stakhanov, 50km west of Luhansk).

Weapons that the SMM could not verify as withdrawn⁷

3 October

At heavy weapons holding areas in government-controlled areas of Donetsk region

The SMM noted that:

- five multiple launch rocket systems (MLRS) (BM-21 *Grad*, 122mm) and a surface-to-air missile system (9K35 *Strela-10*) were present; and
- 23 MLRS (BM-21), a self-propelled howitzer (2S1 *Gvozdika*, 122mm) and two surface-to-air missile systems (9K35) were again missing.

Weapons permanent storage sites

3 October

At a heavy weapons permanent storage site in a non-government-controlled area of Luhansk region

The SMM noted that five towed howitzers (2A65 *Msta-B*, 152mm) and seven MLRS (BM-21) continued to be missing.

Mines near Vesela Hora, mine hazard sign in Novoluhanske and anti-tank mines removed near Nyzhnie Lozove

On 2 October, about 2km north-east of Vesela Hora (non-government-controlled, 16km north of Luhansk), an SMM mini-UAV [again](#) spotted 33 anti-tank mines, of which nine (TM-62M) were on the eastern lane and 24 (TM-57) were placed on the western lane of the dual-lane road H-21 leading to the bridge in Shchastia (government-controlled, 20km north of Luhansk), assessed as belonging to the armed formations. About 500m south-east of the aforesaid mines on the same road and about 1.7km from the bridge in Shchastia, the UAV again spotted nine anti-tank mines (TM-62P3), and about 30m east a second row of five anti-tank mines (TM-62P3), all assessed as belonging to the armed formations.

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

⁷ 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.

On 3 October, the SMM saw for the first time a mine hazard sign (with “Danger, Mines” written in Russian and Ukrainian) on the western side of a road near Novoluhanske (government-controlled, 53km north-east of Donetsk).

About 2.5km west of Nyzhnie Lozove (non-government-controlled, 59km north-east of Donetsk), the Mission observed sappers of the armed formations removing three rows of anti-tank mines from the surface of the road M-03 and placing them on both sides the road. The SMM also heard an explosion of a 120mm mortar in the adjacent field, assessed as a controlled detonation.

Trucks spotted in non-government-controlled areas near Manych and Cheremshyne, near the border with the Russian Federation

On the night of 3 October, an SMM long-range UAV spotted three probable trucks arriving on a dirt road from the direction of Manych (non-government-controlled, 76km east of Donetsk) leading to the border with the Russian Federation where there are no border crossing facilities. One of the trucks remained stationary at the border, the second drove towards the border with the Russian Federation, and the third (probable KamAZ) returned westward (for previous observations in the area, see [SMM Daily Report 24 August 2019](#)). The same UAV spotted six vehicles (possible trucks) arriving in a convoy from an easterly direction on a dirt road and stopping near agricultural buildings, about 1.7km east of Cheremshyne (non-government-controlled, 59km south-east of Luhansk), about 2km east of the border with the Russian Federation.

Border areas not under government control

While at a border crossing point near Uspenka (73km south-east of Donetsk) for two hours, the SMM saw 26 cars (five with Ukrainian and ten with Russian Federation licence plates, as well as 11 with “DPR” plates), a bus with “DPR” plates, 15 covered cargo trucks (five with Ukrainian and one with Russian Federation license plates as well as four “DPR” plates and six with license plates not visible) and 44 pedestrians (mix ages and genders) entering Ukraine. It also saw 43 cars (12 with Ukrainian and 19 with Russian Federation licence plates, as well as 12 with “DPR” plates), a motorcycle, 14 covered cargo trucks (eight with Ukrainian, one with Russian Federation and three with Belarusian licence plates as well as two with “DPR” plates), two buses with Russian Federation licence plates, and 19 pedestrians (mix ages and genders) exiting Ukraine.

While at a border crossing point near Ulianivske (61km east of Donetsk) for about 30 minutes, the SMM saw a man in his sixties entering Ukraine. The Mission also saw a refurbished checkpoint cabin, which had been moved about 50m west from its original location.

SMM facilitation of operation of and repair works to civilian infrastructure

The SMM monitored adherence to the ceasefire to facilitate repairs to water pipelines between Zolote-3/Stakhanovets (government-controlled, 61km west of Luhansk) and Popasna.

The SMM also monitored the security situation in the area of the pumping station near Vasylivka (non-government-controlled, 20km north of Donetsk) and facilitated the operation of the Donetsk Filtration Station (DFS) (15km north of Donetsk). On the evening of 3-4 October, the SMM camera near the DFS recorded ceasefire violations in a close proximity to the Station (see table below).

Peaceful protest in Lviv

On 2 October, in Lviv, at 19 Volodymyra Vynnychenka Street, outside the Regional State Administration building, the SMM monitored a peaceful gathering of 40 people (90 per cent men and ten per cent women, aged 18-50) with a red and black flag. At the same time, a regional council session was taking place discussing recent political developments concerning certain areas of Donetsk and Luhansk regions.

The Mission continued monitoring in Kharkiv, Kherson, Odessa, Lviv, Ivano-Frankivsk, 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, 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 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 3 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.

Denial of access:

- At a checkpoint on the northern edge of Petrivske (non-government-controlled, 41km south of Donetsk), an armed member of the armed formations [again](#) denied the SMM passage citing “ongoing engineering works”, thereby restricting the SMM's access to its camera in Petrivske.

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.

Other impediments:

- While conducting a mini-UAV flight over areas near Horlivka (non-government-controlled, 39km north-east of Donetsk), the SMM heard shots and bursts of small-arms fire about 500m south, assessed as aimed at the UAV, which it landed safely (see above).
- On the evening and night of 2-3 October, an SMM long range-UAV lost its GPS signal due to signal interference, assessed as caused by probable jamming, while flying over government-controlled areas north of Donetsk region and non-government-controlled parts of south-western areas of Luhansk region.

- An SMM mini-UAV lost its GPS signal due to signal interference assessed as caused by probable jamming while flying near Zernove (non-government-controlled, 70km south of Donetsk).⁸

Table of weapons

Weapons in violation of the withdrawal lines

Date	No. of weapons	Type of weapons	Location	Source of observation
Non-government-controlled areas				
03/10/2019	1	Mortar (2B11 <i>Sani</i> , 120mm)	Railway station in Donetsk city	Patrol
03/10/2019	15	Multiple launch rocket system (BM-21 <i>Grad</i> , 122mm)	Krasnolutskiyi (52km south-west of Luhansk)	Patrol

Beyond withdrawal lines but outside of designated storage sites

Date	No. of weapons	Type of weapons	Location	Source of observation
Non-government-controlled areas				
03/10/2019	1	Tank (T-72)	Near Malomykolaivka (36km south-west of Luhansk)	Patrol

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

Table of ceasefire violations as of 3 October 2019⁹

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera in Avdiivka (government-controlled, 17km N of Donetsk)	3-4km SE	Recorded	1	Illumination flare	In vertical flight, also recorded by DFS camera and Oktiabr mine camera	N/K	2-Oct, 23:00
	4-6km SE	Recorded	2	Projectile	NE to SW	N/K	2-Oct, 23:14
SMM camera in Berezove (government-controlled, 31km SW of Donetsk)	4-6km SE	Recorded	1	Projectile	NE to SW	N/K	2-Oct, 23:42
	4-6km SE	Recorded	1	Explosion	Airburst, subsequent to previous event	N/K	2-Oct, 23:42
	2-4km SE	Recorded	21	Projectile	WSW to ENE	N/K	2-Oct, 23:51
	2-4km SE	Recorded	15	Projectile	WSW to ENE	N/K	2-Oct, 23:52
	2-4km SE	Recorded	2	Explosion	Airburst, subsequent to previous event	N/K	2-Oct, 23:52
	2-4km SE	Recorded	2	Projectile	NNE to SSW	N/K	2-Oct, 23:53
	2-4km SE	Recorded	1	Explosion	Undetermined	N/K	2-Oct, 23:53
	2-4km SE	Recorded	1	Projectile	WSW to ENE	N/K	2-Oct, 23:53
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	2-Oct, 23:55
	2-4km SE	Recorded	1	Explosion	Undetermined	N/K	2-Oct, 23:55
	2-4km SE	Recorded	16	Projectile	NE to SW	N/K	2-Oct, 23:56
	2-4km SE	Recorded	1	Explosion	Undetermined	N/K	2-Oct, 23:59
	2-4km SE	Recorded	1	Explosion	Undetermined	N/K	3-Oct, 00:03
	2-4km SE	Recorded	1	Explosion	Undetermined	N/K	3-Oct, 00:07
	2-4km SE	Recorded	1	Projectile	WSW to ENE	N/K	3-Oct, 00:07
	4-6km SE	Recorded	7	Projectile	NE to SW	N/K	3-Oct, 00:08
	4-6km SE	Recorded	3	Projectile	NE to SW	N/K	3-Oct, 00:09
	2-4km SE	Recorded	10	Projectile	NNE to SSW	N/K	3-Oct, 00:13
	4-6km SE	Recorded	1	Burst	In vertical flight, approximately 10 rounds	N/K	3-Oct, 00:13
	2-4km SSE	Recorded	13	Projectile	WSW to ENE	N/K	3-Oct, 00:15
	2-4km SSE	Recorded	2	Projectile	WSW to ENE	N/K	3-Oct, 00:16
	2-4km SE	Recorded	1	Projectile	WSW to ENE	N/K	3-Oct, 00:16
	2-4km SE	Recorded	2	Projectile	WSW to ENE	N/K	3-Oct, 00:21
	2-4km SE	Recorded	11	Projectile	N to S	N/K	3-Oct, 00:53
	2-4km SE	Recorded	13	Projectile	N to S	N/K	3-Oct, 00:54
	2-4km SE	Recorded	5	Explosion	Undetermined	N/K	3-Oct, 00:55
	2-4km SE	Recorded	2	Projectile	WSW to ENE	N/K	3-Oct, 00:55
	2-4km SSE	Recorded	5	Projectile	WSW to ENE	N/K	3-Oct, 00:56
2-4km SSE	Recorded	2	Explosion	Undetermined	N/K	3-Oct, 00:56	
2-4km SE	Recorded	2	Explosion	Undetermined	N/K	3-Oct, 00:56	
2-4km SSE	Recorded	14	Projectile	WSW to ENE	N/K	3-Oct, 00:57	
2-4km SSE	Recorded	4	Explosion	Undetermined	N/K	3-Oct, 00:57	
2-4km SE	Recorded	1	Explosion	Undetermined	N/K	3-Oct, 00:57	
2-4km SSE	Recorded	3	Projectile	WSW to ENE	N/K	3-Oct, 00:58	
2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	3-Oct, 00:58	
2-4km SE	Recorded	2	Explosion	Undetermined	N/K	3-Oct, 00:58	
2-4km SE	Recorded	8	Projectile	WSW to ENE	N/K	3-Oct, 00:59	
2-4km SE	Recorded	5	Explosion	Undetermined	N/K	3-Oct, 00:59	
2-4km SE	Recorded	1	Explosion	Undetermined	N/K	3-Oct, 01:01	
2-4km SE	Recorded	2	burst	In vertical flight, approximately 20 rounds	N/K	3-Oct, 01:02	
2-4km SE	Recorded	28	Projectile	WSW to ENE	N/K	3-Oct, 01:03	
2-4km SE	Recorded	6	Explosion	Undetermined	N/K	3-Oct, 01:03	

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 SE	Recorded	6	Explosion	Undetermined	N/K	3-Oct, 01:05
	2-4km ESE	Recorded	1	Explosion	Undetermined	N/K	3-Oct, 01:05
	2-4km SE	Recorded	1	burst	NE to SW (approximately 30 rounds)	N/K	3-Oct, 02:30
	2-4km SSE	Recorded	1	Projectile	WSW to ENE	N/K	3-Oct, 03:53
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	1-2km SE	Recorded	5	Projectile	In vertical flight	N/K	2-Oct, 19:17
	1-2km SE	Recorded	2	Projectile	NW to SE	N/K	2-Oct, 19:17
	1-2km S	Recorded	1	Projectile	NW to SE	N/K	2-Oct, 19:18
	1-2km SSE	Recorded	1	Projectile	In vertical flight	N/K	2-Oct, 19:23
	1-2km SSE	Recorded	1	Projectile	In vertical flight	N/K	2-Oct, 19:24
	3-5km SSE	Recorded	19	Projectile	NE to SW	N/K	2-Oct, 19:41
	1-2km SSE	Recorded	1	Projectile	NW to SE	N/K	2-Oct, 19:41
	3-5km SSE	Recorded	3	Projectile	WSW to ENE	N/K	2-Oct, 19:41
	4-6km SSE	Recorded	3	Projectile	WNW to ESE	N/K	2-Oct, 19:44
	4-6km SSE	Recorded	1	Muzzle flash		N/K	2-Oct, 19:45
	4-6km SSE	Recorded	1	Projectile	W to E	N/K	2-Oct, 19:45
	4-6km SSE	Recorded	4	Projectile	W to E	N/K	2-Oct, 19:54
	4-6km SSE	Recorded	2	Projectile	WNW to ESE	N/K	2-Oct, 19:55
	3-5km SSE	Recorded	1	Projectile	W to E	N/K	2-Oct, 20:09
	3-5km S	Recorded	1	Muzzle flash		N/K	2-Oct, 20:09
	4-6km SSE	Recorded	1	Illumination flare	In vertical flight	N/K	2-Oct, 20:36
	4-6km SSE	Recorded	1	Illumination flare	In vertical flight	N/K	2-Oct, 20:37
	3-5km SSE	Recorded	1	Projectile	NE to SW	N/K	2-Oct, 20:58
	3-5km SSE	Recorded	1	Muzzle flash		N/K	2-Oct, 20:58
	3-5km SE	Recorded	1	Projectile	ENE to WSW	N/K	2-Oct, 20:59
	3-5km SSE	Recorded	1	Projectile	W to E	N/K	2-Oct, 22:06
	3-5km SSE	Recorded	3	Projectile	WSW to ENE	N/K	2-Oct, 22:07
	4-6km SSE	Recorded	1	Explosion	Undetermined	N/K	2-Oct, 22:07
	3-5km SSE	Recorded	3	Projectile	WSW to ENE	N/K	2-Oct, 22:08
	3-5km SSE	Recorded	3	Projectile	NNE to SSW	N/K	2-Oct, 22:12
	3-5km SSE	Recorded	1	Projectile	ENE to WSW	N/K	2-Oct, 22:12
	3-5km SSE	Recorded	1	Muzzle flash		N/K	2-Oct, 22:12
	4-6km SSE	Recorded	1	Illumination flare	Also recorded by Lomakyne camera	N/K	2-Oct, 22:59
	4-6km SSE	Recorded	1	Illumination flare	Also recorded by Lomakyne camera	N/K	2-Oct, 23:07
	4-6km SSE	Recorded	4	Projectile	NE to SW	N/K	3-Oct, 00:11
	3-5km SE	Recorded	3	Projectile	NE to SW	N/K	3-Oct, 00:27
	4-6km SSE	Recorded	1	Explosion	Undetermined	N/K	3-Oct, 01:20
	4-6km S	Recorded	1	Illumination flare	In vertical flight	N/K	3-Oct, 01:49
	3-5km SSE	Recorded	1	Muzzle flash		N/K	3-Oct, 02:10
	3-5km SSE	Recorded	1	Projectile	ENE to WSW (subsequent to previous event)	N/K	3-Oct, 02:10
	2-4km SE	Recorded	6	Projectile	In vertical flight	N/K	3-Oct, 02:26
	3-5km SSE	Recorded	2	Projectile	NNE to SSW	N/K	3-Oct, 02:31
	3-5km SSE	Recorded	2	Projectile	NNE to SSW	N/K	3-Oct, 02:35
	3-5km SSE	Recorded	1	Projectile	SSW to NNE	N/K	3-Oct, 02:35
	3-5km SSE	Recorded	1	Muzzle flash		N/K	3-Oct, 02:35
	2-4km SE	Recorded	1	Projectile	In vertical flight	N/K	3-Oct, 02:53
	2-4km SE	Recorded	1	Projectile	In vertical flight	N/K	3-Oct, 03:45
	2-4km SSE	Recorded	1	Projectile	WSW to ENE	N/K	3-Oct, 03:57
2-4km SE	Recorded	7	Projectile	In vertical flight	N/K	3-Oct, 04:14	
2-4km SE	Recorded	1	Projectile	In vertical flight	N/K	3-Oct, 04:34	
2-4km SE	Recorded	4	Projectile	In vertical flight	N/K	3-Oct, 04:42	
2-4km SE	Recorded	6	Projectile	In vertical flight	N/K	3-Oct, 04:43	
2-4km SE	Recorded	2	Projectile	In vertical flight	N/K	3-Oct, 04:48	
2-4km SE	Recorded	6	Projectile	In vertical flight	N/K	3-Oct, 04:53	
2-4km SSE	Recorded	2	Projectile	WSW to ENE	N/K	3-Oct, 04:59	
	300-400m SSE	Recorded	1	Muzzle flash		Mortar (type N/K)	3-Oct, 11:22
SMM camera at Donetsk Filtration	200-400m SSW	Recorded	1	Muzzle flash		N/K	2-Oct, 21:39

Station (15km N of Donetsk)	0.2-1km S	Recorded	1	Projectile	WNW to ESE (subsequent to previous event)	N/K	2-Oct, 21:39	
	0.9-1.1km SSE	Recorded	1	Explosion	Subsequent to previous event	N/K	2-Oct, 21:39	
	0.9-1.1km SSE	Recorded	1	Explosion	Undetermined	N/K	2-Oct, 21:39	
	0.7-1km S	Recorded	1	Explosion	Undetermined	N/K	2-Oct, 21:47	
	300-500m SSW	Recorded	1	Muzzle flash		N/K	2-Oct, 21:59	
	0.7-1km SSE	Recorded	1	Explosion	Undetermined	N/K	2-Oct, 22:01	
	0.4-1.2km S	Recorded	1	Projectile	WNW to ESE	N/K	2-Oct, 22:02	
	0.7-1km S	Recorded	1	Muzzle flash		N/K	2-Oct, 22:03	
	0.7-1km S	Recorded	1	Projectile	NNE to SSW (subsequent to previous event)	N/K	2-Oct, 22:03	
	300-500m SSW	Recorded	3	Muzzle flash		N/K	2-Oct, 22:11	
	300-500m SSW	Recorded	1	Projectile	N to S	N/K	2-Oct, 22:26	
	0.7-1km SSE	Recorded	1	Explosion	Undetermined	N/K	2-Oct, 22:26	
	600-800m SSE	Recorded	1	Explosion	Undetermined	N/K	2-Oct, 22:28	
	600-800m SSE	Recorded	1	Explosion	Undetermined	N/K	2-Oct, 22:32	
	1-2km SSW	Recorded	1	Explosion	Also recorded by Avdiivka camera	N/K	2-Oct, 23:06	
	1-2km SSW	Recorded	1	Explosion	Also recorded by Avdiivka camera	N/K	2-Oct, 23:41	
	0.5-1km S	Recorded	1	Projectile	In vertical flight	N/K	3-Oct, 00:58	
	0.3-0.5km SSW	Recorded	2	Muzzle flash		N/K	3-Oct, 01:00	
	0.8-1km S	Recorded	1	Explosion	Undetermined	N/K	3-Oct, 01:00	
	1-2km S	Recorded	1	Explosion	Undetermined	N/K	3-Oct, 01:01	
	2-4km SSW	Recorded	1	Explosion	Undetermined, also recorded by Oktiabr mine camera	N/K	3-Oct, 04:52	
	0.8-1.2km SSE	Recorded	1	Explosion	Undetermined	N/K	3-Oct, 04:52	
	SMM camera in Krasnohorivka (government-controlled, 21km W of Donetsk)	4-6km SSE	Recorded	1	Explosion	Undetermined	N/K	2-Oct, 20:40
		4-6km SSE	Recorded	2	Explosion	Undetermined	N/K	2-Oct, 20:41
	SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	3-5km ENE	Recorded	10	Projectile	In vertical flight	N/K	2-Oct, 19:18
		3-5km ENE	Recorded	10	Projectile	In vertical flight	N/K	2-Oct, 19:19
2-3km E		Recorded	2	Projectile	WSW to ENE	N/K	2-Oct, 19:55	
2-3km ENE		Recorded	1	Projectile	N to S	N/K	2-Oct, 21:47	
2-3km ENE		Recorded	1	Explosion	Undetermined	N/K	2-Oct, 21:49	
2-3km E		Recorded	2	Projectile	WNW to ESE	N/K	2-Oct, 21:55	
2-3km E		Recorded	1	Projectile	N to S	N/K	2-Oct, 21:55	
2-3km ENE		Recorded	3	Projectile	N to S	N/K	2-Oct, 21:58	
2-3km ENE		Recorded	1	Projectile	WNW to ESE	N/K	2-Oct, 21:58	
2-3km ENE		Recorded	5	Projectile	NNW to SSE	N/K	2-Oct, 23:00	
2-3km ENE		Recorded	5	Projectile	NNW to SSE	N/K	2-Oct, 23:15	
2-3km ENE		Recorded	22	Projectile	NNW to SSE	N/K	2-Oct, 23:19	
2-3km ENE		Recorded	7	Projectile	NNW to SSE	N/K	2-Oct, 23:20	
2-3km ENE		Recorded	1	Projectile	S to N	N/K	2-Oct, 23:21	
2-3km ENE		Recorded	2	Projectile	NNW to SSE	N/K	3-Oct, 00:07	
2-3km E		Recorded	10	Projectile	N to S	N/K	3-Oct, 00:12	
2-3km ENE		Recorded	12	Projectile	NNW to SSE	N/K	3-Oct, 00:53	
2-3km ENE		Recorded	7	Projectile	N to S	N/K	3-Oct, 04:14	
2-3km ENE		Recorded	3	Projectile	NNW to SSE	N/K	3-Oct, 05:38	
2-3km ENE	Recorded	7	Projectile	NNW to SSE	N/K	3-Oct, 05:39		
SMM camera at entry-exit checkpoint in Marinka	2-4km NNE	Recorded	3	Projectile	W to E	N/K	2-Oct, 18:34	
	2-4km NNE	Recorded	2	Explosion	Airburst, subsequent to previous event	N/K	2-Oct, 18:34	
	2-4km NNE	Recorded	1	Projectile	W to E	N/K	2-Oct, 18:35	

(government-controlled, 23km SW of Donetsk)	2-4km NNE	Recorded	15	Projectile	W to E	N/K	2-Oct, 19:04
	2-4km NNE	Recorded	14	Projectile	W to E	N/K	2-Oct, 19:05
	2-4km NE	Recorded	3	Projectile	W to E	N/K	2-Oct, 19:06
	2-4km NNE	Recorded	2	Projectile	SE to NW	N/K	2-Oct, 19:10
	2-4km NNE	Recorded	29	Projectile	W to E	N/K	2-Oct, 19:22
	2-4km NNE	Recorded	31	Projectile	W to E	N/K	2-Oct, 19:24
	2-4km NNE	Recorded	30	Projectile	W to E	N/K	2-Oct, 19:25
	2-4km NNE	Recorded	26	Projectile	W to E	N/K	2-Oct, 19:26
	2-4km NNE	Recorded	2	Projectile	W to E	N/K	2-Oct, 19:27
	2-4km NNE	Recorded	20	Projectile	W to E	N/K	2-Oct, 19:28
	2-4km NNE	Recorded	57	Projectile	W to E	N/K	2-Oct, 19:50
	2-4km NNE	Recorded	2	Explosion	Impact, subsequent to previous event.	N/K	2-Oct, 19:50
	2-4km NNE	Recorded	8	Projectile	W to E	N/K	2-Oct, 19:51
	2-4km NNE	Recorded	13	Projectile	W to E	N/K	2-Oct, 19:52
	2-4km NNE	Recorded	30	Projectile	W to E	N/K	2-Oct, 19:53
	2-4km NNE	Recorded	14	Projectile	W to E	N/K	2-Oct, 19:55
	2-4km NNE	Recorded	12	Projectile	W to E	N/K	2-Oct, 19:56
	2-4km NNE	Recorded	17	Projectile	W to E	N/K	2-Oct, 19:57
	2-4km NNE	Recorded	4	Muzzle flash		N/K	2-Oct, 19:57
	2-4km NNE	Recorded	6	Projectile	W to E	N/K	2-Oct, 20:07
	2-4km NNE	Recorded	5	Projectile	W to E	N/K	2-Oct, 20:08
	2-4km NNE	Recorded	1	Muzzle flash		N/K	2-Oct, 20:08
	2-4km NNE	Recorded	13	Projectile	W to E	N/K	2-Oct, 20:09
	2-4km NNE	Recorded	11	Projectile	W to E	N/K	2-Oct, 20:10
	2-4km NNE	Recorded	1	Muzzle flash		N/K	2-Oct, 20:10
	2-4km NNE	Recorded	7	Projectile	W to E	N/K	2-Oct, 20:11
	2-4km NNE	Recorded	43	Projectile	W to E	N/K	2-Oct, 20:20
	2-4km NNE	Recorded	23	Projectile	W to E	N/K	2-Oct, 20:21
	2-4km NNE	Recorded	11	Projectile	W to E	N/K	2-Oct, 20:33
	2-4km NNE	Recorded	28	Projectile	W to E	N/K	2-Oct, 20:34
	2-4km NNE	Recorded	8	Projectile	W to E	N/K	2-Oct, 20:36
	2-4km NNE	Recorded	42	Projectile	W to E	N/K	2-Oct, 20:37
	2-4km NNE	Recorded	6	Explosion	Airburst, subsequent to previous event	N/K	2-Oct, 20:37
	2-4km NNE	Recorded	1	Projectile	W to E	N/K	2-Oct, 22:58
2-4km NNE	Recorded	2	Projectile	W to E	N/K	3-Oct, 02:07	
SMM camera at entry-exit checkpoint in Pyshchevyk (government-controlled, 84km S of Donetsk)	3-5km S	Recorded	2	Projectile	W to E	N/K	2-Oct, 19:04
	3-5km S	Recorded	6	Projectile	W to E	N/K	2-Oct, 19:05
	3-5km S	Recorded	2	Projectile	W to E	N/K	2-Oct, 19:06
	3-5km S	Recorded	1	Projectile	W to E	N/K	2-Oct, 19:07
	3-5km S	Recorded	3	Projectile	W to E	N/K	2-Oct, 19:09
	3-5km S	Recorded	3	Projectile	W to E	N/K	2-Oct, 19:10
	3-5km S	Recorded	2	Projectile	W to E	N/K	2-Oct, 19:13
	3-5km S	Recorded	2	Projectile	W to E	N/K	2-Oct, 19:14
	3-5km S	Recorded	3	Projectile	W to E	N/K	2-Oct, 19:15
	3-5km S	Recorded	8	Projectile	W to E	N/K	2-Oct, 19:16
	3-5km S	Recorded	10	Projectile	W to E	N/K	2-Oct, 19:17
	3-5km S	Recorded	2	Burst	In vertical flight, approximately 100 rounds	N/K	2-Oct, 19:17
	4-6km S	Recorded	1	Explosion	Undetermined	N/K	2-Oct, 19:17
	3-5km S	Recorded	4	Projectile	W to E	N/K	2-Oct, 19:18
	3-5km S	Recorded	1	Burst	In vertical flight, approximately 30 rounds	N/K	2-Oct, 19:18
	3-5km S	Recorded	2	Projectile	W to E	N/K	2-Oct, 19:19
	3-5km S	Recorded	2	Burst	In vertical flight, approximately 30 rounds	N/K	2-Oct, 19:19
	3-5km S	Recorded	3	Projectile	W to E	N/K	2-Oct, 19:23
	4-6km S	Recorded	5	Projectile	W to E	N/K	2-Oct, 20:12
	4-6km S	Recorded	10	Projectile	E to W	N/K	2-Oct, 20:58
	4-6km S	Recorded	4	Projectile	E to W	N/K	2-Oct, 21:13
	4-6km S	Recorded	2	Projectile	W to E	N/K	2-Oct, 21:13
	4-6km S	Recorded	1	Projectile	W to E	N/K	2-Oct, 21:17
	4-6km S	Recorded	8	Projectile	E to W	N/K	2-Oct, 21:26
	4-6km S	Recorded	3	Projectile	W to E	N/K	2-Oct, 22:04

	4-6km S	Recorded	1	Projectile	In vertical flight	N/K	2-Oct, 22:05
	4-6km S	Recorded	2	Projectile	W to E	N/K	2-Oct, 22:05
	4-6km S	Recorded	2	Projectile	E to W	N/K	2-Oct, 22:17
	4-6km S	Recorded	8	Projectile	E to W	N/K	2-Oct, 22:18
	4-6km S	Recorded	10	Projectile	W to E	N/K	2-Oct, 22:20
	4-6km S	Recorded	1	Projectile	W to E	N/K	2-Oct, 22:29
	4-6km S	Recorded	2	Projectile	E to W	N/K	2-Oct, 22:35
	4-6km S	Recorded	1	Projectile	E to W	N/K	2-Oct, 22:37
	4-6km S	Recorded	3	Projectile	W to E	N/K	2-Oct, 22:37
	4-6km S	Recorded	3	Projectile	W to E	N/K	2-Oct, 22:39
	4-6km S	Recorded	1	Projectile	E to W	N/K	2-Oct, 22:39
	4-6km S	Recorded	3	Projectile	W to E	N/K	2-Oct, 22:41
	4-6km S	Recorded	1	Projectile	E to W	N/K	2-Oct, 22:41
	4-6km S	Recorded	3	Projectile	W to E	N/K	2-Oct, 22:42
	4-6km S	Recorded	1	Projectile	W to E	N/K	2-Oct, 22:46
	4-6km SSE	Recorded	2	Projectile	E to W	N/K	2-Oct, 22:57
	4-6km S	Recorded	12	Projectile	E to W	N/K	2-Oct, 23:03
	4-6km S	Recorded	3	Projectile	E to W	N/K	2-Oct, 23:05
	4-6km SSE	Recorded	8	Projectile	W to E	N/K	2-Oct, 23:41
	4-6km S	Recorded	1	Projectile	W to E	N/K	2-Oct, 23:43
	6-8km S	Recorded	1	Explosion	Also recorded by Lomakyne camera	N/K	2-Oct, 23:49
	4-6km S	Recorded	1	Explosion	Undetermined	N/K	2-Oct, 23:50
	4-6km S	Recorded	2	Projectile	E to W	N/K	3-Oct, 00:05
	4-6km S	Recorded	4	Projectile	W to E	N/K	3-Oct, 00:05
	4-6km S	Recorded	2	Projectile	W to E	N/K	3-Oct, 00:06
	4-6km S	Recorded	2	Projectile	E to W	N/K	3-Oct, 00:06
	4-6km S	Recorded	1	Explosion	Undetermined	N/K	3-Oct, 00:07
	4-6km S	Recorded	1	Burst	E to W (approximately 30 rounds)	N/K	3-Oct, 00:17
	4-6km S	Recorded	10	Projectile	W to E	N/K	3-Oct, 00:29
	4-6km S	Recorded	1	Projectile	In vertical flight	N/K	3-Oct, 00:39
	4-6km SSE	Recorded	1	Explosion	Undetermined	N/K	3-Oct, 00:43
	4-6km S	Recorded	3	Projectile	E to W	N/K	3-Oct, 00:46
	4-6km S	Recorded	12	Projectile	W to E	N/K	3-Oct, 01:21
	4-6km S	Recorded	1	Projectile	E to W	N/K	3-Oct, 01:34
	4-6km SSE	Recorded	1	Projectile	W to E	N/K	3-Oct, 01:37
	8-10km S	Recorded	1	Illumination flare	Also recorded by Chermalyk and Lomakyne cameras	N/K	3-Oct, 01:49
	4-6km S	Recorded	4	Projectile	W to E	N/K	3-Oct, 01:58
	4-6km S	Recorded	20	Projectile	W to E	N/K	3-Oct, 01:59
	4-6km S	Recorded	1	Projectile	W to E	N/K	3-Oct, 02:02
	4-6km S	Recorded	1	Projectile	NW to SE	N/K	3-Oct, 02:57
	4-6km S	Recorded	2	Projectile	W to E	N/K	3-Oct, 03:31
	4-6km S	Recorded	2	Projectile	In vertical flight	N/K	3-Oct, 03:32
	7-9km SSE	Recorded	1	Explosion	Also recorded by Chermalyk camera	N/K	3-Oct, 03:49
	2-3km ENE	Recorded	Uncountable	Projectile	N to S	N/K	3-Oct, 04:14
	4-6km SSE	Recorded	1	Explosion	Undetermined	N/K	3-Oct, 04:22
	4-6km S	Recorded	1	Projectile	NNE to SSW	N/K	3-Oct, 05:03
	2-4km S	Recorded	1	Explosion	Also recorded by Hnutove camera	N/K	3-Oct, 05:09
	4-6km S	Recorded	3	Projectile	E to W	N/K	3-Oct, 05:34
SMM camera in Svitlodarsk (government-controlled, 57km NE of Donetsk)	3-5km ESE	Recorded	7	Projectile	In vertical flight	N/K	2-Oct, 19:06
	4-6km ESE	Recorded	1	Projectile	N to S	N/K	2-Oct, 21:17
	4-6km ESE	Recorded	1	Projectile	S to N	N/K	2-Oct, 21:17
	4-6km ESE	Recorded	1	Muzzle flash		N/K	2-Oct, 21:17
	4-6km S	Recorded	1	Illumination flare	In vertical flight	N/K	2-Oct, 22:57
	4-6km ESE	Recorded	10	Projectile	S to N	N/K	3-Oct, 01:38
Trudivski area (non-government-controlled, 15km SW of Donetsk city center)	200-300m N	Heard	2	Explosion	Undetermined	N/K	3-Oct, 11:20

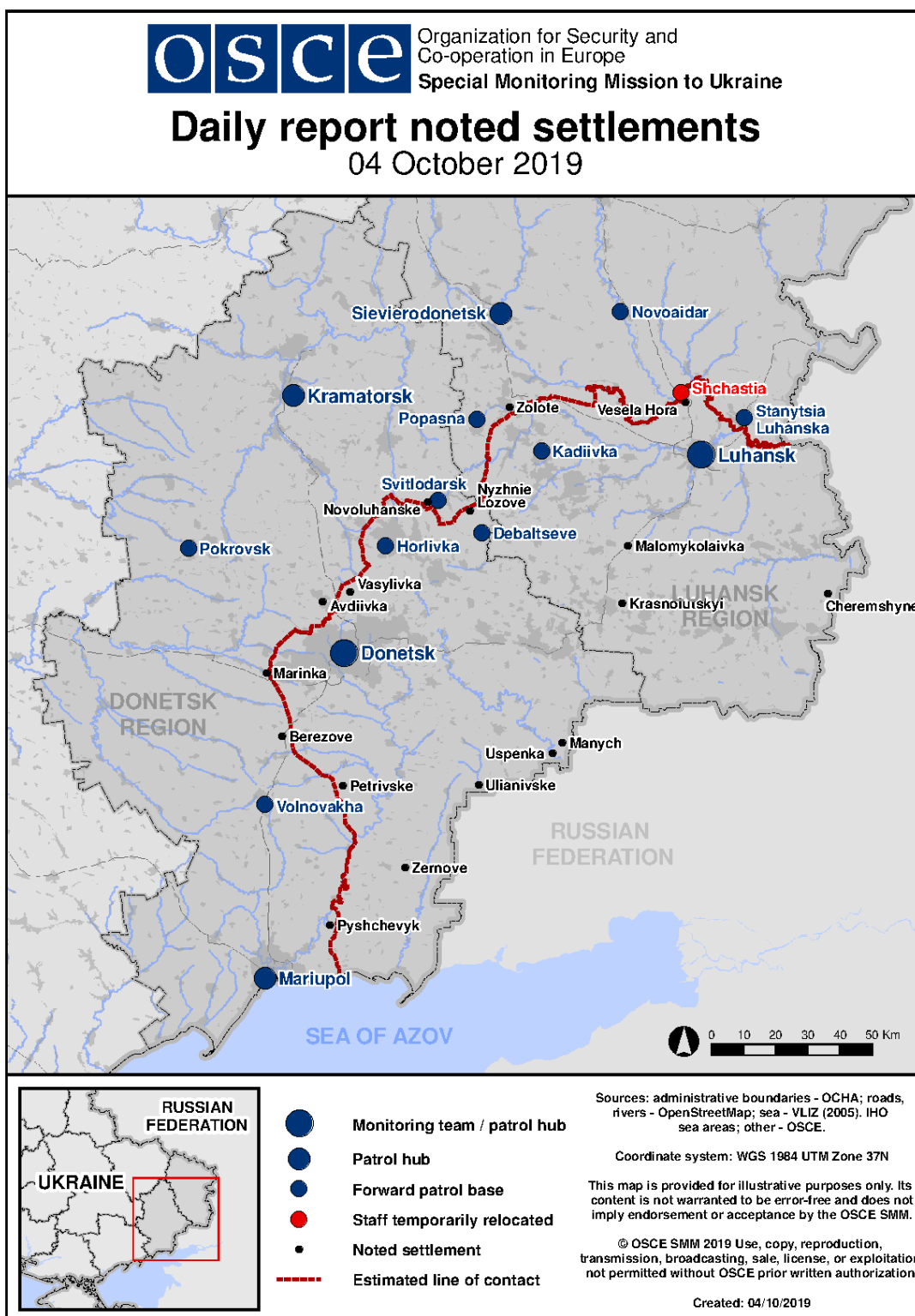
Donetsk central railway station(non-government-controlled, 6km NW of Donetsk)	2-4km NNW	Heard	1	Explosion	Undetermined	N/K	3-Oct, 10:35
Krasnohorivka (government-controlled, 21km W of Donetsk)	2km E	Heard	1	Explosion	Undetermined	N/K	3-Oct, 10:31
	2km SE	Heard	2	Explosion	Undetermined	N/K	3-Oct, 10:36
	3-4km E	Heard	1	Explosion	Undetermined	N/K	3-Oct, 11:21
Marinka (government controlled, 23km SW of Donetsk)	1km E	Heard	64	Burst		HMG	3-Oct, 12:41-12:45
About 1km E of Kruta Balka (non-government-controlled, 16km N of Donetsk)	1-2km SSW	Heard	10	Shot		Small arms	3-Oct, 11:20
	1-2km SSW	Heard	2	Burst		Small arms	3-Oct, 11:20
	3-4km WNW	Heard	6	Shot		HMG	3-Oct, 11:34
About 1km NW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	1-2km NW	Heard	2	Burst		Small arms	3-Oct, 09:45
	2-3km WSW	Heard	5	Shot		Small arms	3-Oct, 10:10
	2-3km SW	Heard	10	Burst		HMG	3-Oct, 12:54-12:57
	2-3km SW	Heard	7	Shot		Small arms	3-Oct, 12:54-12:57
	3km SW	Heard	4	Burst		HMG	3-Oct, 13:00
	3km SW	Heard	1	Explosion	Undetermined	N/K	3-Oct, 13:00
About 1.7km E of Avdiivka (government-controlled, 17km N of Donetsk)	1.5-3km ENE	Heard	25	Explosion	Undetermined	N/K	3-Oct, 11:12-11:17
	1.5-3km ENE	Heard	3	Burst		HMG	3-Oct, 11:12-11:17
	1.5-3km ENE	Heard	3	Burst		Small arms	3-Oct, 11:12-11:17
	2-3km SSE	Heard	7	Burst		HMG	3-Oct, 11:18
	2-3km SSE	Heard	12	Shot		Small arms	3-Oct, 11:18
	2-3km SE	Heard	6	Burst		HMG	3-Oct, 11:20-11:22
	1.5-3km ENE	Heard	18	Shot		Small arms	3-Oct, 11:35
	1.5-3km ENE	Heard	2	Burst		HMG	3-Oct, 11:35
	2-3km SSE	Heard	2	Burst		HMG	3-Oct, 12:50
	1-2km S	Heard	200	Shot	Assessed as constantly shooting (single shots) from SALW	Small arms	3-Oct, 13:50-14:20
	1-2km S	Heard	48	Shot		Small arms	3-Oct, 14:45-15:10
1-2km S	Heard	4	Burst		Small arms	3-Oct, 14:45-15:10	
About 2km NE of Chernenko (government-controlled, 86km S of Donetsk)	3-4km SE	Heard	3	Explosion	Undetermined	N/K	3-Oct, 10:38-10:39
	2km SE	Heard	2	Explosion	Undetermined	N/K	3-Oct, 10:47-10:48
	4-5km SSE	Heard	2	Explosion	Undetermined	N/K	3-Oct, 10:52-10:57
	2-3km SSE	Heard	2	Shot		Small arms	3-Oct, 10:52-10:57
	2-3km SSE	Heard	7	Burst		Small arms	3-Oct, 10:52-10:57
Pervomaiske (government-controlled, 89km SW of Donetsk)	2-4km SE	Heard	Uncountable	Burst	Assessed as uncountable bursts of BMP2 or ZU-23	N/K	3-Oct, 11:00-11:22
Novohnativka (government-controlled, 40km	N/K NE	Heard	3	Burst	Assessed as possible training range	HMG	3-Oct, 11:25

south of Donetsk)							
Svitlodarsk (government-controlled, 57km NE of Donetsk)	3-5km SE	Heard	10	Explosion	Undetermined	N/K	2-Oct, 18:32-18:49
	3-5km SE	Heard	3	Explosion	Undetermined	N/K	2-Oct, 20:28-20:38
	3-5km SE	Heard	2	Explosion	Undetermined	N/K	2-Oct, 20:50-20:52
	3-5km SE	Heard	4	Burst		HMG	2-Oct, 20:52-20:54
	1-3km SSE	Heard	2	Shot		Small arms	2-Oct, 20:58
	3-5km SE	Heard	6	Burst		HMG	2-Oct, 21:10
	3-5km SE	Heard	4	Shot		HMG	2-Oct, 21:13
	3-5km SSE	Heard	6	Explosion	Undetermined	N/K	2-Oct, 21:13
	3-5km SSE	Heard	Uncountable		uncountable overlapping sequence	HMG	2-Oct, 21:14
	3-5km SSE	Heard	4	Explosion	Undetermined	N/K	2-Oct, 21:17
	3-5km SW	Heard	4	Explosion	Undetermined	N/K	2-Oct, 21:20-21:21
	5-7km SW	Heard	7	Explosion	Undetermined	N/K	2-Oct, 21:23-21:29
	3-5km SE	Heard	3	Explosion	Undetermined	N/K	2-Oct, 21:31-21:33
	5-7km SW	Heard	2	Explosion	Undetermined	N/K	2-Oct, 21:35
	5-7km SW	Heard	Uncountable		uncountable overlapping sequence	Small arms	2-Oct, 21:36
	5-7km SW	Heard	2	Explosion	Undetermined	N/K	2-Oct, 21:44-21:46
	5-7km SW	Heard	2	Explosion	Undetermined	N/K	2-Oct, 21:50
	5-7km SW	Heard	2	Explosion	Undetermined	N/K	2-Oct, 21:54
	5-7km SW	Heard	2	Explosion	Undetermined	N/K	2-Oct, 21:56
	5-7km SW	Heard	7	Explosion	Undetermined	N/K	2-Oct, 22:00-22:05
	3-5km SW	Heard	2	Explosion	Undetermined	N/K	2-Oct, 22:11
	2-4km SW	Heard	5	Shot		HMG	2-Oct, 22:11-22:12
	5-7km SW	Heard	5	Explosion	Undetermined	N/K	2-Oct, 22:13
	3-5km SW	Heard	8	Burst		HMG	2-Oct, 22:18-22:21
	3-5km SW	Heard	1	Explosion	Undetermined	N/K	2-Oct, 22:26
	3-5km SW	Heard	3	Burst		HMG	2-Oct, 22:26
	3-5km SW	Heard	8	Burst		HMG	2-Oct, 22:48
	5-7km SW	Heard	2	Explosion	Undetermined	N/K	2-Oct, 22:50
	1-3km SE	Heard	2	Shot		Small arms	2-Oct, 22:55
	3-5km SE	Heard	2	Explosion	Undetermined	N/K	2-Oct, 22:58
3-5km SW	Heard	5	Burst		HMG	2-Oct, 22:59	
1-3km SW	Heard	5	Shot		Small arms	2-Oct, 23:00	
5-7km SW	Heard	3	Explosion	Undetermined	N/K	2-Oct, 23:01	
3-5km SE	Heard	1	Explosion		N/K	2-Oct, 23:07	
3-5km SE	Heard	8	Burst		HMG	2-Oct, 23:08	
3-5km SE	Heard	2	Explosion	Undetermined	N/K	2-Oct, 23:08	
5-7km SW	Heard	1	Explosion	Undetermined	N/K	2-Oct, 23:42	
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	2-3km NW	Heard	10	Explosion	Undetermined	N/K	3-Oct, 09:15-09:18
	2-3km NW	Heard	2	Explosion	Undetermined	N/K	3-Oct, 09:20
	2-3km NW	Heard	1	Explosion	Undetermined	N/K	3-Oct, 09:30
	1-2km NE	Heard	5	Burst		HMG	3-Oct, 09:37
	4-5km SSW	Heard	1	Explosion	Undetermined	N/K	3-Oct, 10:35
	4-5km SW	Heard	3	Explosion	Undetermined	N/K	3-Oct, 10:42
	1-2km SSE	Heard	12	Explosion	Undetermined	N/K	3-Oct, 11:13
	1-2km ESE	Heard	5	Burst		HMG	3-Oct, 11:14
	1-2km ESE	Heard	18	Explosion	Undetermined	N/K	3-Oct, 11:15
	1-2km ESE	Heard	8	Burst		HMG	3-Oct, 11:34
Horlivka (non-	500m SW	Heard	15	Shot		Small	3-Oct,

government-controlled, 39km NE of Donetsk)	500m SW	Heard	5	Burst		arms Small arms	12:54-12:56 3-Oct, 12:54-12:56
SMM camera in Zolote (government-controlled, 60km W of Luhansk)	1-2km SE	Recorded	1	Illumination flare	In vertical flight, unable to assess whether inside or outside the disengagement area	N/K	2-Oct, 18:53
	3-5km SSW	Recorded	38	Projectile	In vertical flight, unable to assess whether inside or outside the disengagement area	N/K	2-Oct, 19:18
	3-5km SSW	Recorded	1	Explosion	Undetermined, unable to assess whether inside or outside the disengagement area	N/K	2-Oct, 19:18
	1-2km SE	Recorded	1	Projectile	NNE to SSW (unable to assess whether inside or outside the disengagement area)	N/K	2-Oct, 19:19
	1-2km SSE	Recorded	1	Projectile	SSW to NNE (unable to assess whether inside or outside the disengagement area)	N/K	2-Oct, 19:19
	1-2km SE	Recorded	6	Projectile	NNE to SSW (unable to assess whether inside or outside the disengagement area)	N/K	2-Oct, 19:20
	1-2km SE	Recorded	3	Projectile	N to S (unable to assess whether inside or outside the disengagement area)	N/K	2-Oct, 19:26
	1-2km SE	Recorded	8	Projectile	N to S (unable to assess whether inside or outside the disengagement area)	N/K	2-Oct, 19:27
	2-3km SE	Recorded	1	Projectile	NW to SE (assessed as inside the disengagement area)	N/K	2-Oct, 20:24
	2-3km SE	Recorded	1	Explosion	Assessed as inside the disengagement area	N/K	2-Oct, 20:24
	1-3km E	Recorded	1	Projectile	NW to SE (assessed as outside the disengagement area)	N/K	2-Oct, 22:00
	1-3km E	Recorded	1	Projectile	WNW to ESE (assessed as outside the disengagement area)	N/K	2-Oct, 22:17
	1-3km E	Recorded	1	Explosion	Impact, subsequent to previous event, assessed as outside the disengagement area	N/K	2-Oct, 22:17
E edge of Stanytsia Luhanska (government-controlled, 16km NE of Luhansk)	2-3km SW	Heard	2	Shot	Assessed as outside the disengagement area	Small arms	2-Oct, 19:00-19:13
	2-3km SW	Heard	2	Explosion	Undetermined (Assessed as outside the disengagement area)	N/K	2-Oct, 19:00-19:13
Stanytsia Luhanska bridge (15km north of Luhansk)	0.15-1km SSE	Heard	1	Shot	Assessed as inside the disengagement area	Small arms	3-Oct, 16:07

N edge of Popasna (government-controlled, 69km W of Luhansk)	4-5km ESE	Heard	10	Burst		HMG	2-Oct, 23:15
0.5km N of Orikhove (government-controlled, 57km NW of Luhansk)	3-4km S	Heard	1	Explosion	Undetermined	N/K	3-Oct, 11:17
	3-4km S	Heard	1	Explosion	Undetermined	N/K	3-Oct, 11:52
	3-4km NE	Heard	1	Explosion	Undetermined	N/K	3-Oct, 11:54

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).