

Daily Report 262/2019

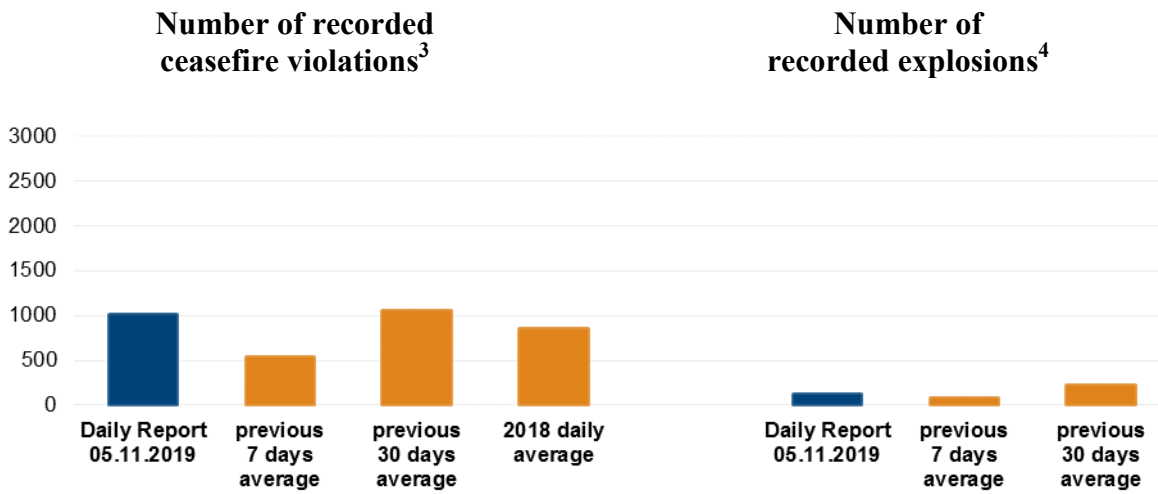
5 November 2019¹

Summary

- Compared with the previous 24 hours, the SMM recorded fewer ceasefire violations in Donetsk region and more in Luhansk region.
- The SMM confirmed reports of a man and a woman who died after a grenade exploded inside their apartment in government-controlled Kurakhove.
- The SMM saw damage from shelling to an apartment in non-government-controlled Holmivskiyi.
- Small-arms fire was assessed as aimed at an SMM mini-unmanned aerial vehicle near government-controlled Chermalyk.
- The Mission observed demining activities inside the disengagement area near Zolote.
- Inside the Stanytsia Luhanska disengagement area, the Mission continued to observe construction works at the broken section of the bridge.
- The SMM observed an illumination flare fired by the armed formations signalling the readiness to renew disengagement in Petrivske disengagement area. Since there was no reciprocal action, the activities related to withdrawal of forces and hardware did not commence.
- The SMM observed weapons in violation of withdrawal lines on both sides of the contact line.
- The SMM observed for the first time a piece of unexploded ordnance in Donetsk city.
- The SMM continued to facilitate the operation of the Donetsk Filtration Station.
- Restrictions of the Mission's freedom of movement continued, including at checkpoints near non-government-controlled Shevchenko, Zaichenko and Novoazovsk.*

¹ Based on information from the Monitoring Teams as of 19:30, 4 November 2019. All times are in Eastern European Time.

Ceasefire violations²



² For a complete breakdown of ceasefire violations, please see the annexed table. During the reporting period, the SMM cameras in Shyrokyne and Stanytsia Luhanska were not operational.

³ Including explosions.

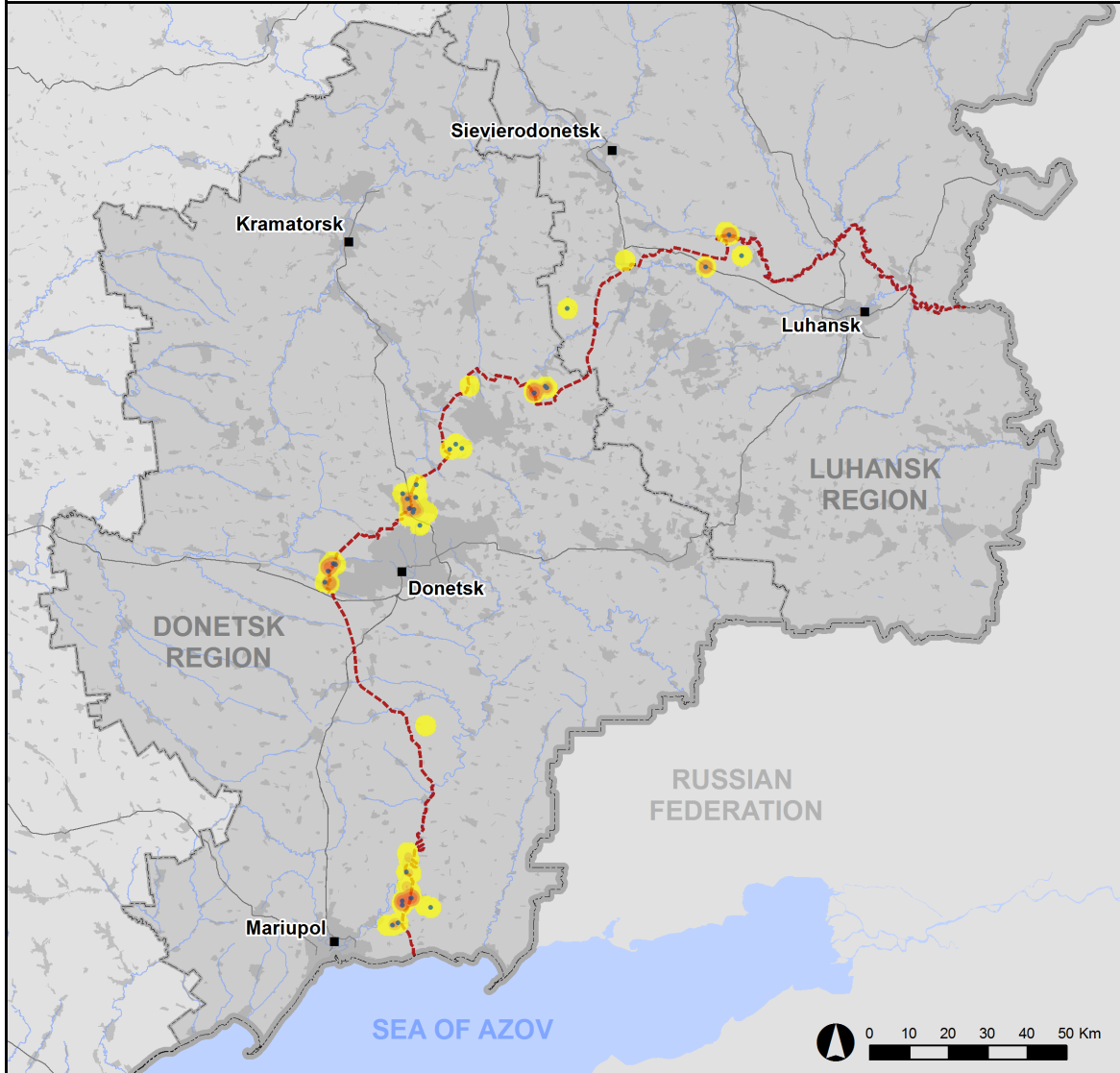
⁴ Including from unidentified weapons.

Map of recorded ceasefire violations

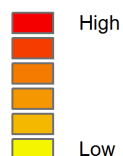


Organization for Security and
Co-operation in Europe
Special Monitoring Mission to Ukraine

Ceasefire violations observed by the SMM 4 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: 05/11/2019

In Donetsk region, the SMM recorded fewer ceasefire violations, including, however, more explosions (125), compared with the [previous 24 hours](#) (about 115 explosions). The majority of the ceasefire violations were recorded at southerly directions of Pyshevyk (government-controlled, 84km south of Donetsk), at easterly directions of Hnutove (government-controlled, 90km south of Donetsk) and at southerly directions of Svitlodarsk (government-controlled, 57km north-east of Donetsk). Positioned near Yasynuvata (non-government-controlled, 16km north-east of Donetsk) and facilitating the operation of the Donetsk Filtration Station (DFS), the SMM heard about 70 ceasefire violations, including about six undetermined explosions and about 40 shots and bursts of small-arms and heavy-machine-gun fire, assessed as within a radius of 2km from the DFS.

In Luhansk region, the SMM recorded more ceasefire violations, including more explosions (about 30), compared with the [previous 24 hours](#) (five explosions). The majority of the ceasefire violations were recorded in areas south-west of Kriakivka (government-controlled, 38km north-west of Luhansk) and in areas west of Smile (non-government-controlled, 31km north-west of Luhansk), where the SMM recorded about 2 explosions of artillery rounds.

Man and woman died after a grenade exploded inside their apartment in Kurakhove

The SMM followed up on reports that a man and a woman died after a grenade exploded inside their apartment on the second floor of a six-storey apartment building in 22 Pivdennyi district in Kurakhove (government-controlled, 40km west of Donetsk), about 16km from the contact line. On 7 October, medical staff at the hospital morgue in Krasnohorivka (government-controlled, 21km west of Donetsk) told the SMM that the bodies of a man and a woman (in their forties) had been brought to the morgue in the afternoon of 5 October with fatal injuries from an explosive device. On 4 November, a police representative in Kurakhove confirmed that a couple had died as the result of a detonation of a grenade inside their apartment on 5 October, and that it had opened a criminal investigation.

Damage from shelling to an apartment in Holmivskiyi

On 4 November, at 16 Likarniana Street, in an apartment on the first floor of a four-storey building in Holmivskiyi (non-government controlled, 49km north-east of Donetsk), the SMM saw a hole in a north-east-facing window inside the kitchen, as well as multiple corresponding shrapnel damage consisting of holes in the aforesaid window frame and on the tiles of the adjacent kitchen sink area. The SMM also saw shrapnel damage consisting of two holes on the north-east-facing balcony window frame. It assessed all damage as not fresh and caused by a round of an undetermined weapon system (it could not assess the direction of fire). On 11 June, five neighbours (three men, 30-40 years old, and two women, 40-60 years old) separately told the SMM that shelling had occurred near the aforesaid building in the morning of 9 June.

Small-arms fire directed at SMM mini-unmanned aerial vehicle (UAV) near Chermalyk

On 4 November, positioned about 700m north of Chermalyk (government-controlled, 77km south of Donetsk), while conducting a mini-UAV flight, the SMM heard five bursts of small-arms fire about 1km north-east, assessed as aimed at the UAV, which was also flying over areas about 1km north-east of its position. After five minutes, the SMM heard another eight bursts of small-arms fire about 2km south-east, assessed as aimed at the UAV, which was

flying about 2km south-east of its position. The SMM safely landed the UAV and left the area.*

Disengagement areas near Zolote, Stanytsia Luhanska and Petrivske⁵

On the evening of 3 November, an SMM long-range UAV spotted a person entering a military position on the north-eastern corner of the **disengagement area near Zolote** (government-controlled, 60km west of Luhansk). On the same evening, inside the disengagement area, the same UAV also spotted a person entering a military position about 1.3km south of the northern edge and 1.3km east of the western edge of the disengagement area. Additionally, outside the disengagement area, the aforesaid UAV spotted two persons and two trucks at the checkpoint of the Ukrainian Armed Forces about 300m north of the disengagement area's northern edge.

On 4 November, positioned at the checkpoint of the Ukrainian Armed Forces on the northern edge of the disengagement area near Zolote, the SMM saw 23 deminers from the State Emergency Service of Ukraine and nine vehicles, conducting demining activities inside the disengagement area, in fields up to 500m east and up to 50m west of road T-1316, from just north of the railway bridge to the area's northern edge. The Mission saw wooden sticks with red bands on top placed about 20-25m west of road T-1316 from the area's northern edge to about 500m further south.

On 4 November, outside the disengagement area, the SMM [again](#) saw ten Ukrainian Armed Forces personnel reinforcing military positions about 300m north of the northern edge of the disengagement area up to 300m east and west of the checkpoint of the Ukrainian Armed Forces on the northern edge of the disengagement area. The Mission saw in total ten police vehicles, one military truck and 40 armed police officers patrolling in Zolote-2/Karbonit (government-controlled, 60km west of Luhansk), Zolote-4/Rodina (government-controlled, 59km west of Luhansk) and on the road leading from Zolote-4/Rodina to Katerynivka (government-controlled, 64km west of Luhansk), outside the disengagement area.

On the same day, positioned at the checkpoint of the armed formations on the disengagement area's southern edge, the SMM saw a senior member of the armed formations (wearing an armband with "JCCC" written on it) as well as eight deminers from non-government-controlled areas enter the disengagement area by foot on road T-1316 from the direction of the aforesaid checkpoint. The SMM saw the same deminers conducting demining activities inside the disengagement area in fields about 20-30m east of road T-1316, about 100m north of the area's southern edge.

Positioned at the same location, the SMM heard an explosion, at an assessed distance of 300m north-west, assessed as a controlled detonation of unexploded ordnance (UXO).

On the evening of 3 November, the SMM camera in Zolote recorded two projectiles in flight at an assessed range of 2-3km east-north-east, assessed as outside the disengagement area but within its 5km periphery.

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

On 4 November, inside the **disengagement area near Stanytsia Luhanska**, the Mission saw 15 workers from government-controlled areas welding six decks at the broken section of the bridge as well as preparing to cover the concrete structure on the southern edge of the broken section of the bridge with sand. The Mission also saw three trucks unload sand on the concrete structure on the northern edge of the bridge (which later departed the area).

The SMM saw seven workers from non-government-controlled areas clearing and burning vegetation on the eastern side of the checkpoint of the armed formations. The Mission saw that the parking lot south-east of the aforementioned checkpoint had been resurfaced and was being used by buses and cars.

The SMM saw at least 12 members of the armed formations (eight of them wearing armbands with “JCCC” written on them) between the broken section of the bridge and the checkpoint of the armed formations.

Positioned at the checkpoint of the armed formations south of the bridge, the SMM saw that a woman (in her eighties or nineties) was taken away from the area south of the bridge by ambulance. A member of an international humanitarian organization told the SMM that the elderly woman had suffered a stroke while being transported on the shuttle bus from the entry-exit checkpoint to the bridge.

In the context of activities related to renewed disengagement discussed in [meetings of the Trilateral Contact Group](#), at 12:00, on 4 November, positioned at its camera site in Petrivske (non-government-controlled, 41km south of Donetsk), the SMM saw members of the armed formations fire a white illumination flare, signalling readiness to start renewed disengagement. Since there was no reciprocal action, the activities related to withdrawal of forces and hardware did not commence.

On 3 November, positioned about 2km north of Petrivske, the SMM heard three shots of heavy-machine-gun fire, at an assessed range of 2-4km south-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 34 weapons in violation of withdrawal lines on both sides of the contact line, including a tank in the yard of a residential property in Stepanivka (non-government-controlled, 62km west of Luhansk). It also observed 17 weapons beyond withdrawal lines but outside of designated storage sites on both sides of the contact line in Luhansk region (for further details, see the tables below).

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

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

The SMM observed military and military-type presence in the security zone on both sides of the contact line, including an anti-aircraft gun (ZU-23, 23mm) in a residential area of Novoselivka (government-controlled, 31km north of Donetsk) (for further details, see the table below).

Presence of unexploded ordnance (UXO) in Donetsk city and probable mine hazard signs in Lozove

On 2 November, an SMM mini-UAV spotted for the first time three probable mine hazard signs along a footpath leading to a previously reported military-type position and four probable mine hazard signs near trenches, respectively about 150m and 1km south-east of Lozove (non-government-controlled, 52km north-east of Donetsk).

On 4 November, the SMM saw for the first time a piece of UXO on a road in a residential area of Trudovski area in Donetsk city's Petrovskiyi district, assessed as remnants of an exploded rocket from a multiple launch rocket system (MLRS) (*Grad*, type undetermined). About 1.5km further north, the SMM [again](#) saw an object, assessed as a remnant of an exploded MLRS rocket (*Grad*, type undetermined) and not recent, embedded in the asphalt on Petrova Street in the Trudivski area.

On the same day, about less than 1km south-west of the forward positions of the armed formations on road H-20 near Olenivka (non-government-controlled, 23km south-west of Donetsk), the SMM [again](#) saw two anti-tank mines (TM-62M) in the median strip between road lanes.

On the same day, the SMM [again](#) saw a metal tube (122mm in diameter) assessed as an exploded MLRS rocket (*Grad*, type undetermined) embedded in the asphalt on the eastern side of road H-20 on the southern edge of Donetsk city, about 600m from the nearest residential houses.

Additionally, about 2km north-west of a checkpoint of the armed formations on road H-15 south of Kreminets (non-government-controlled, 16km south-west of Donetsk), the Mission [again](#) saw ten mine hazard signs on both sides of road H-15 and [again](#) a red plastic sign (with "Stop mines" written in Russian and "Danger mines" in English) about 50m north of the aforesaid checkpoint.

SMM facilitation of operation of critical civilian infrastructure

The Mission continued to facilitate the operation of the DFS (15km north of Donetsk). Despite security guarantees having been provided, positioned in and near Yasynuvata and at the DFS, the SMM heard ceasefire violations in the area (see ceasefire violations table below).

Border areas outside government control

While at a border crossing point near Voznesenivka (formerly Chervonopartyzansk, 65km south-east of Luhansk) for about 30 minutes, the SMM saw six pedestrians (four men and two women) entering Ukraine and no pedestrians or vehicles exiting Ukraine.

While at the Chervona Mohyla railway station in Voznesenivka for about 30 minutes, the SMM saw no traffic in either direction.

SMM followed up reports of vandalism to two monuments in Odessa

On 3 November, the SMM followed up on media reports about the removal of the bas-relief image of a Soviet Army general in World War II in Odessa city. At 83 Kanatna Street where the building of the Odessa regional military commissariat is located, the SMM saw that the portion of the wall with the bas-relief was covered in concrete.

On 4 November, in Odessa, the SMM followed up on media reports of vandalism to a monument associated to a Soviet youth organization. At the corner of Torhova and Staroportofrankivska Streets, the SMM saw remnants of red paint stains on the monument that appeared to have already been cleaned (for similar incident, see [SMM Daily Report 6 November 2018](#)).

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

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

The SMM's monitoring and freedom of movement are restricted by security hazards and threats, including risks posed by mines, UXO and other impediments – which vary from day to day. The SMM's mandate provides for safe and secure access throughout Ukraine. All signatories of the Package of Measures have agreed on the need for this safe and secure access, that restriction of the SMM's freedom of movement constitutes a violation, and on the need for rapid response to these violations. They have also agreed that the 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 26 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 eastern edge of Shevchenko (non-government-controlled, 69km south of Donetsk), two members of the armed formations, one of them visibly armed, [again](#) denied the SMM passage westward towards Mykolaivka (non-government-controlled, 70km south of Donetsk), citing the fact that “their superiors were not informed”.
- At a checkpoint north of Zaichenko (non-government-controlled, 93km south of Donetsk), two armed members of the armed formations [again](#) denied the SMM passage south towards Sakhanka (non-government-controlled, 97km south of Donetsk), citing “ongoing demining activities”.
- At a checkpoint north of Novoazovsk (non-government-controlled, 102km south-east of Donetsk), two armed members of the armed formations [again](#) denied the SMM passage towards Siedove (non-government-controlled, 106km south of Donetsk), citing “the presence of a sabotage group in the area”.
- About 3km south-west of Metalist (non-government-controlled, 7km north-west of Luhansk), a member of the armed formations denied the SMM access to a military-type compound, citing that no one was permitted.

Regular restrictions related to disengagement areas and mines/UXO:

- The sides continued to deny the SMM full access to disengagement areas near Zolote and Petrivske, 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 and UXO.

Other impediments:

- On the night between 3 and 4 November, an SMM long-range UAV experienced GPS signal interference, assessed as probable jamming, while flying between Stepanivka (government-controlled, 54km north of Donetsk) and Lomuvatka (non-government-controlled, 57km west of Luhansk).⁷
- On 4 November, an SMM mini-UAV experienced GPS signal interference, assessed as probable jamming while flying near Lebedynske (government-controlled, 99km south of Donetsk) and Chermalyk (government-controlled, 77km south of Donetsk).
- On 4 November, while conducting a mini-UAV flight north of Chermalyk, the SMM heard 13 bursts of small-arms fire assessed as aimed at the mini-UAV, which landed safely (see above).

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

Table of weapons

Weapons in violation of the withdrawal lines

Date	No. of weapons	Type of weapon	Location	Source of observation		
Government-controlled areas						
02/11/2019	2	Surface-to-air missile system (9K35 <i>Strela-10</i>)	Western outskirts of Novoselivka (31km north of Donetsk), about 80m from the nearest residence	Mini UAV		
04/11/2019	6	Multiple launch rocket system (BM-27 <i>Uragan</i> 220mm)	Railway station in Rubizhne (84km north-west of Luhansk)	Patrol		
Non-government-controlled areas						
02/11/2019	1	Tank (T-64)	In the yard of a residential property in Stepanivka (62km west of Luhansk) (for previous observations, see SMM Daily Report 22 March 2019)	Mini UAV		
03/11/2019	6	Tank (probable T-72)	In a training area near Novoselivka (37km north-east of Donetsk) (for previous observations in the area, see SMM Daily Report 24 September 2019)	Long-range UAV		
	3	Probable tank				
	2	Self-propelled howitzer (2S1 <i>Gvozdika</i> , 122mm)			Bile (22km west of Luhansk)	Mini UAV
	4	Towed howitzer (D-30A <i>Lyagushka</i> , 122mm)				
03/11/2019	5	Towed howitzer (four D-30 <i>Lyagushka</i> , 122mm and a 2A65 <i>Msta-B</i> , 152mm)	Former Luhansk international airport, about 2km north of Peremozhne (19km south of Luhansk) (for previous observations see SMM Daily Report 4 November)	Mini UAV		
	1	Multiple launch rocket system (BM-21 <i>Grad</i> , 122mm)				
	2	Self-propelled howitzer (a 2S3 <i>Akatsiya</i> , 152mm and a 2S1 <i>Gvozdika</i> , 122mm)				
	2	Anti-tank gun (MT-12 <i>Rapira</i> , 100mm and a BS-3 100mm)				

Beyond withdrawal lines but outside of designated storage sites

Date	No. of weapons	Type of weapon	Location	Source of observation
Government-controlled areas				
04/11/2019	3	Self-propelled howitzers (2S1 <i>Gvozdika</i> , 122mm)	Railway station in Rubizhne (84km north-west of Luhansk)	Patrol
Non-government-controlled areas				
03/11/2019	3	Towed mortar (2B9 <i>Vasilek</i> , 82mm)	Former Luhansk international airport, about 2km north of Peremozhne (19km south of Luhansk) (see above)	Mini UAV
	7	Tank (six T-72B and one T-64)		
	3	Mortar (2B11/2S12 <i>Sani</i> , 120mm)		
	1	Surface-to-air missile system (9K35 <i>Strela-10</i>)		

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

Date	No.	Type	Location	Source of observation
Government-controlled areas				
02/11/2019	1	Anti-aircraft gun (ZU-23, 23mm)	Western outskirts of Novoselivka (31km north of Donetsk), about 80m from the nearest house	Mini UAV
	1	Armoured command vehicle (BMP-1Ksh)	In the yard of a residential property of Taramchuk (29km south-west of Donetsk)	
	1	Armoured recovery vehicle (BREM-Ch)		
	6	Infantry fighting vehicle (BMP-1)	Near Taramchuk (29km south-west of Donetsk)	
	1	Armoured personnel carrier (BTR-80)		
	8	Infantry fighting vehicle (seven BMP variant and a BMP-1)	Near Berezove (31km south-west of Donetsk)	
	1	Armoured reconnaissance vehicle (BRDM-2)		
03/11/2019	1	Armoured personnel carrier (MT-LB)	Near Mykhailivka (57km north of Donetsk)	Mini UAV
04/11/2019	1	Armoured reconnaissance vehicle (BRM-1K)	Near Berezove (31km south-west of Donetsk)	Patrol
Non-government-controlled areas				
02/11/2019	1	Armoured personnel carrier (MT-LB)	Molochny settlement of Lozove (non-government-controlled, 52km north-east of Donetsk)	Mini UAV
03/11/2019	17	Probable armoured combat vehicle	In a training area near Novoselivka (37km north-east of Donetsk)	Long-range UAV

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

Table of ceasefire violations as of 4 November 2019⁹

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	NE to SW	N/K	3-Nov, 19:48
	2-4km SSE	Recorded	2	Projectile	ENE to WSW	N/K	4-Nov, 03:01
	2-4km SSE	Recorded	3	Projectile	ENE to WSW	N/K	4-Nov, 03:06
	2-3km S	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 17:14
	2-3km S	Recorded	1	Muzzle flash		N/K	4-Nov, 17:17
	2-3km S	Recorded	3	Projectile	ENE to WSW	N/K	4-Nov, 17:17
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	0.7-1.5km SSW	Recorded	1	Projectile	W to E	N/K	3-Nov, 18:57
	0.7-1.5km SSW	Recorded	2	Projectile	WNW to ESE	N/K	3-Nov, 18:58
	1-2.5km SSW	Recorded	4	Projectile	W to E	N/K	3-Nov, 23:21
	0.5-1km SSW	Recorded	4	Muzzle flash		N/K	3-Nov, 23:33
	1-2km SSW	Recorded	4	Projectile	W to E	N/K	4-Nov, 02:27
	1-2km SSW	Recorded	1	Illumination flare	In vertical flight	N/K	4-Nov, 02:49
	1-2km SSE	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 02:57
	1-2km SSE	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 03:52
SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk)	3-5km E	Recorded	1	Projectile	S to N (also recorded by the SMM camera near Pyshevyk)	N/K	3-Nov, 18:36
	3-5km E	Recorded	1	Explosion	Impact	N/K	3-Nov, 18:36
	3-5km E	Recorded	2	Projectile	S to N (also recorded by the SMM camera near Pyshevyk)	N/K	3-Nov, 18:44
	3-5km E	Recorded	8	Projectile	SSW to NNE	N/K	3-Nov, 18:44
	3-5km E	Recorded	11	Projectile	S to N	N/K	3-Nov, 18:45
	3-5km E	Recorded	1	Projectile	S to N	N/K	3-Nov, 19:06
	3-5km E	Recorded	1	Explosion	Impact, subsequent to previous event	N/K	3-Nov, 19:06
	3-5km NE	Recorded	2	Projectile	NW to SE	N/K	3-Nov, 23:03
	3-5km NE	Recorded	8	Projectile	NW to SE	N/K	3-Nov, 23:28
	3-5km E	Recorded	8	Projectile	SW to NE	N/K	4-Nov, 02:05
	3-5km E	Recorded	6	Projectile	SW to NE	N/K	4-Nov, 02:06
	3-5km NE	Recorded	1	Projectile	NNW to SSE	N/K	4-Nov, 02:15
	3-5km NE	Recorded	2	Projectile	NNW to SSE	N/K	4-Nov, 02:19
	3-5km E	Recorded	3	Projectile	SW to NE	N/K	4-Nov, 03:36
	3-5km E	Recorded	3	Projectile	SW to NE	N/K	4-Nov, 03:37
	3-5km E	Recorded	14	Projectile	SW to NE	N/K	4-Nov, 03:38
	3-5km E	Recorded	3	Projectile	SW to NE	N/K	4-Nov, 03:39
	3-5km ENE	Recorded	1	Projectile	SW to NE	N/K	4-Nov, 03:40
	3-5km E	Recorded	19	Projectile	S to N (also recorded by the SMM camera near	N/K	4-Nov, 17:06

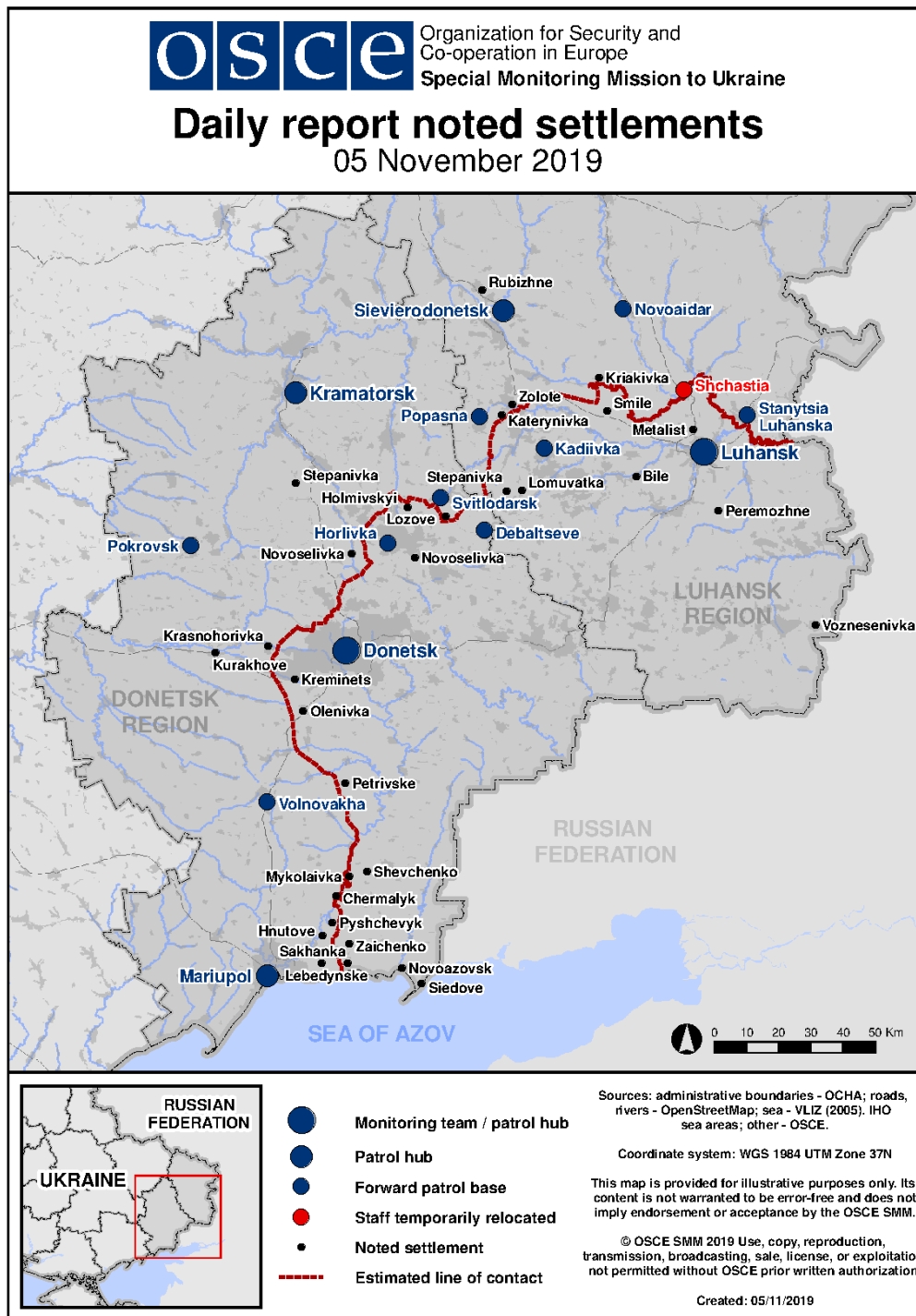
⁹ The table only includes ceasefire violations directly observed by the SMM and it may include those also assessed to be live-fire exercises, controlled detonations, etc. Details provided – in terms of distance, direction, weapons-type, etc. – are based on assessments provided by monitors on the ground, 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.

					Lomakyne)		
	3-5km E	Recorded	1	Explosion	Undetermined, also recorded by the SMM camera in Lomakyne	N/K	4-Nov, 17:06
	3-5km E	Recorded	1	Projectile	S to N	N/K	4-Nov, 17:11
	3-5km E	Recorded	3	Projectile	S to N	N/K	4-Nov, 17:12
	3-5km E	Recorded	43	Projectile	S to N	N/K	4-Nov, 17:13
	3-5km E	Recorded	16	Projectile	S to N	N/K	4-Nov, 17:14
	3-5km E	Recorded	2	Explosion	Undetermined	N/K	4-Nov, 17:14
SMM camera E of Lomakyne (government-controlled, 90km S of Donetsk)	2-6km ENE	Recorded	3	Explosion	Undetermined	N/K	3-Nov, 22:03
	1-1.5km NE	Recorded	1	Muzzle flash		N/K	4-Nov, 00:40
	2-4km ENE	Recorded	14	Projectile	NW to SE	N/K	4-Nov, 03:38
	2-3km ENE	Recorded	1	Explosion	Impact	N/K	4-Nov, 16:41
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	4-Nov, 02:12
SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)	2-4km NNE	Recorded	11	Projectile	SW to NE	N/K	3-Nov, 21:40
	2-4km NNE	Recorded	3	Projectile	W to E	N/K	3-Nov, 21:41
	2-4km NNE	Recorded	12	Projectile	W to E	N/K	3-Nov, 21:54
	2-4km NNE	Recorded	2	Muzzle flash		N/K	3-Nov, 21:54
	2-4km NNE	Recorded	1	Projectile	W to E	N/K	3-Nov, 21:55
	2-4km NNE	Recorded	4	Projectile	W to E	N/K	3-Nov, 22:02
	2-4km NNE	Recorded	14	Projectile	W to E	N/K	3-Nov, 22:03
	2-4km N	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 17:02
SMM camera at entry-exit checkpoint in Pyshevyk (government-controlled, 84km S of Donetsk)	2-4km S	Recorded	4	Projectile	E to W	N/K	3-Nov, 20:00
	2-4km S	Recorded	1	Projectile	N to S	N/K	3-Nov, 21:04
	2-4km S	Recorded	3	Projectile	W to E	N/K	3-Nov, 21:09
	2-4km S	Recorded	1	Muzzle flash		N/K	3-Nov, 21:42
	2-4km S	Recorded	5	Projectile	N to S	N/K	3-Nov, 22:26
	2-4km S	Recorded	2	Projectile	E to W	N/K	3-Nov, 22:26
	2-4km S	Recorded	3	Projectile	W to E	N/K	3-Nov, 22:26
	2-4km S	Recorded	4	Projectile	W to E	N/K	3-Nov, 22:55
	2-4km S	Recorded	2	Projectile	NW to SE	N/K	3-Nov, 22:56
	2-4km S	Recorded	5	Projectile	NW to SE	N/K	3-Nov, 23:00
	2-4km S	Recorded	1	Projectile	N to S	N/K	3-Nov, 23:00
	2-4km S	Recorded	4	Projectile	E to W	N/K	3-Nov, 23:03
	2-4km S	Recorded	12	Projectile	E to W	N/K	3-Nov, 23:28
	2-4km S	Recorded	1	Muzzle flash		N/K	4-Nov, 01:26
	2-4km S	Recorded	1	Projectile	In vertical flight	N/K	4-Nov, 01:56
	2-4km S	Recorded	2	Projectile	W to E	N/K	4-Nov, 01:56
	2-4km S	Recorded	8	Projectile	W to E	N/K	4-Nov, 02:05
	2-4km S	Recorded	6	Projectile	W to E	N/K	4-Nov, 02:06
	2-4km S	Recorded	1	Projectile	E to W	N/K	4-Nov, 02:15
	2-4km S	Recorded	1	Muzzle flash		N/K	4-Nov, 02:48
	2-4km S	Recorded	20	Projectile	W to E	N/K	4-Nov, 02:54
	2-4km S	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 02:54
	2-4km S	Recorded	8	Projectile	W to E	N/K	4-Nov, 03:06
	2-4km S	Recorded	2	Projectile	W to E	N/K	4-Nov, 03:18
	2-4km S	Recorded	12	Projectile	W to E	N/K	4-Nov, 03:19
	2-4km S	Recorded	3	Projectile	W to E	N/K	4-Nov, 03:36
	2-4km S	Recorded	10	Projectile	W to E	N/K	4-Nov, 03:38
	2-4km S	Recorded	3	Projectile	W to E	N/K	4-Nov, 03:39
	2-4km S	Recorded	5	Projectile	NE to SW	N/K	4-Nov, 04:23
	2-4km S	Recorded	3	Projectile	E to W	N/K	4-Nov, 04:23
	2-4km S	Recorded	2	Projectile	W to E	N/K	4-Nov, 04:46
		3-5km S	Recorded	1	Illumination flare	In vertical flight	N/K
	3-5km S	Recorded	1	Projectile	W to E	N/K	4-Nov, 16:54

	3-5km S	Recorded	7	Projectile	E to W	N/K	4-Nov, 17:06
	3-5km S	Recorded	7	Projectile	W to E	N/K	4-Nov, 17:06
	3-5km S	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 17:06
	3-5km S	Recorded	3	Projectile	E to W	N/K	4-Nov, 17:09
	3-5km S	Recorded	3	Projectile	E to W	N/K	4-Nov, 17:10
	2-3km SSE	Recorded	3	Projectile	E to W	N/K	4-Nov, 17:17
About 2km N of Petrivske (non-government-controlled, 41km S of Donetsk)	2-4km SE	Heard	3	Shot	Assessed as outside the disengagement area	HMG	4-Nov, 11:15
About 1km E of Kruta Balka (non-government-controlled, 16km N of Donetsk)	3-4km W	Heard	1	Explosion	Undetermined	N/K	4-Nov, 10:10
	2-3km S	Heard	5	Burst		Small arms	4-Nov, 10:31
	3-4km W	Heard	1	Explosion	Undetermined	N/K	4-Nov, 10:31-10:39
	3-4km W	Heard		Shot	Uncountable	Small arms	4-Nov, 10:31-10:39
	3-4km W	Heard	4	Burst		HMG	4-Nov, 10:31-10:39
About 1km N of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	2-3km NW	Heard	2	Explosion	Undetermined	N/K	4-Nov, 08:48
Railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	3-4km W	Heard	28	Shot		Small arms	4-Nov, 10:58-10:59
	3-4km W	Heard	4	Burst		Small arms	4-Nov, 10:58-10:59
	3-4km W	Heard	1	Explosion	Undetermined	N/K	4-Nov, 10:58-10:59
	2km W	Heard	7	Burst		Small arms	4-Nov, 11:27
	3-4km W	Heard	1	Explosion	Undetermined	N/K	4-Nov, 11:43
About 1km NW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	2km W	Heard	2	Shot		Small arms	4-Nov, 09:23
	2-3km SE	Heard	2	Shot		Small arms	4-Nov, 09:31
	2-3km W	Heard	1	Burst		HMG	4-Nov, 12:28
	2km NNW	Heard	4	Shot		Small arms	4-Nov, 12:30
	2km NNW	Heard	1	Burst		Small arms	4-Nov, 12:31
	5km S	Heard	1	Explosion	Undetermined	N/K	4-Nov, 12:41
	5km S	Heard	1	Burst		Small arms	4-Nov, 12:41
	5km S	Heard	2	Shot		Small arms	4-Nov, 12:42
	3km S	Heard	2	Shot		HMG	4-Nov, 12:47
	4km SW	Heard	1	Shot		Small arms	4-Nov, 12:47
	2-3km SW	Heard	3	Explosion	Undetermined	N/K	4-Nov, 12:49
	2-3km SW	Heard	1	Burst		Small arms	4-Nov, 12:49
	2km SW	Heard	2	Shot		Small arms	4-Nov, 12:55
	2km SW	Heard	1	Burst		Small arms	4-Nov, 12:57
	2km SW	Heard	2	Shot		Small arms	4-Nov, 13:19
	2km SW	Heard	3	Burst		Small arms	4-Nov, 13:22
2-3km S	Heard	1	Shot		Small arms	4-Nov, 13:25	

Krasnohorivka (government-controlled, 21km W of Donetsk)	3-4km S	Heard	4	Explosion	Undetermined	N/K	4-Nov, 13:15-13:30
	2-3km SE	Heard	10	Explosion	Undetermined	N/K	4-Nov, 13:15-13:30
	2-3km S	Heard	7	Shot		Small arms	4-Nov, 13:15-13:30
	2-3km S	Heard	92	Burst		HMG	4-Nov, 13:15-13:30
	1-2km SE	Heard	20	Burst		HMG	4-Nov, 13:15-13:30
	2-3km SE	Heard	1	Explosion	Undetermined	N/K	4-Nov, 13:34
About 1km NE of Zaichenko (non-government-controlled, 93km S of Donetsk)	2-3km NW	Heard	4	Burst		HMG	4-Nov, 11:40
About 2km N of Chermalyk (government-controlled, 77km S of Donetsk)	1km NE	Heard	5	Burst		Small arms	4-Nov, 12:09-12:15
	1-2km SE	Heard	8	Burst		Small arms	4-Nov, 12:09-12:15
NE edge of Kulykove (non-government-controlled, 87km S of Donetsk)	2-3km S	Heard	2	Explosion	Undetermined	N/K	4-Nov, 13:57
Svitlodarsk (government-controlled, 57km NE of Donetsk)	4-5km SE	Heard	8	Explosion	Undetermined	N/K	3-Nov, 19:30-19:33
	4-5km S	Heard	12	Explosion	Undetermined	N/K	3-Nov, 19:45-19:50
	4-5km S	Heard	6	Explosion	Undetermined	N/K	3-Nov, 20:00
	4-5km S	Heard	5	Explosion	Undetermined	N/K	3-Nov, 20:08
	4-5km SE	Heard	10	Burst		HMG	3-Nov, 20:40
	3-5km SE	Heard	2	Explosion	Undetermined	N/K	4-Nov, 10:56
	3-4km S	Heard	30	Burst		HMG	4-Nov, 15:48-15:50
	4-5km SE	Heard	3	Explosion	Undetermined	N/K	4-Nov, 17:00-17:08
	4-5km SE	Heard	2	Explosion	Undetermined	N/K	4-Nov, 17:38
	4-5km S	Heard	8	Explosion	Undetermined	N/K	4-Nov, 17:40-17:50
	4-5km S	Heard	4	Explosion	Undetermined	N/K	4-Nov, 17:51-18:00
	4-5km S	Heard	10	Explosion	Undetermined	N/K	4-Nov, 18:05-18:20
	4-5km S	Heard	20	Burst		HMG	4-Nov, 18:05-18:20
	4-5km S	Heard	8	Explosion	Undetermined	N/K	4-Nov, 18:21-18:28
	4-5km S	Heard	30	Burst		HMG	4-Nov, 18:21-18:28
Horlivka (non-government-controlled, 39km NE of Donetsk)	4-6km SW	Heard	2	Explosion	Undetermined	N/K	4-Nov, 14:54
	4-6km SSW	Heard	2	Explosion	Undetermined	N/K	4-Nov, 14:49
	6-8km SW	Heard	6	Explosion	Undetermined	N/K	4-Nov, 15:05
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	2-3km E	Heard	1	Explosion	Undetermined	N/K	4-Nov, 12:25
	2-3km E	Heard	1	Explosion	Undetermined	N/K	4-Nov, 12:31
	2-3km E	Heard	1	Explosion	Undetermined	N/K	4-Nov, 12:41
	2-3km SSW	Heard	2	Explosion	Undetermined	N/K	4-Nov, 13:00
SMM camera in Kriakivka (government-controlled, 38km NW of Luhansk)	2-4km SSW	Recorded	3	Projectile	WNW to ESE	N/K	3-Nov, 20:38
	2-4km SSW	Recorded	26	Projectile	ESE to WNW	N/K	3-Nov, 20:47
	2-4km SSW	Recorded	1	Projectile	WNW to ESE	N/K	3-Nov, 20:47
	2-4km SSW	Recorded	1	Projectile	WNW to ESE	N/K	3-Nov, 20:51
	2-4km SSW	Recorded	3	Muzzle flash		N/K	3-Nov, 20:52
	2-4km SSW	Recorded	3	Projectile	WNW to ESE	N/K	3-Nov, 20:52
	2-4km SSW	Recorded	3	Projectile	WNW to ESE	N/K	3-Nov, 20:52
2-4km SSW	Recorded	2	Muzzle flash		N/K	3-Nov, 20:54	

	2-4km SSW	Recorded	2	Projectile	WNW to ESE	N/K	3-Nov, 20:54
	2-4km SSW	Recorded	2	Muzzle flash		N/K	3-Nov, 20:54
	2-4km SW	Recorded	1	Projectile	WNW to ESE	N/K	3-Nov, 20:54
	2-4km SSW	Recorded	1	Projectile	ESE to WNW	N/K	3-Nov, 20:55
	2-4km SSW	Recorded	4	Projectile	WNW to ESE	N/K	3-Nov, 20:56
	2-4km SSW	Recorded	1	Projectile	WNW to ESE	N/K	3-Nov, 20:57
	2-4km SSW	Recorded	1	Projectile	ESE to WNW	N/K	3-Nov, 20:58
	2-4km SSW	Recorded	2	Projectile	WNW to ESE	N/K	3-Nov, 20:58
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	3-Nov, 20:58
	2-4km SSW	Recorded	1	Muzzle flash		N/K	3-Nov, 20:59
	2-4km SSW	Recorded	1	Projectile	WNW to ESE	N/K	3-Nov, 20:59
	2-4km SSW	Recorded	1	Projectile	WNW to ESE	N/K	3-Nov, 21:02
	2-4km SSW	Recorded	1	Muzzle flash		N/K	3-Nov, 21:02
SMM camera in Zolote (government-controlled, 60km W of Luhansk)	2-3km ENE	Recorded	2	Projectile	NW to SE (assessed as outside the disengagement area)	N/K	3-Nov, 18:57
NW edge of Smile (non-government-controlled, 31km NW of Luhansk)	5-10km W	Heard	21	Explosion	Undetermined	Artillery	04/11/0219, 11:31-11:54
	5-10km W	Heard	23	Burst		HMG	04/11/0219, 11:31-11:54
SW edge of Dovhe (non-government-controlled, 22km NW of Luhansk)	10km NW	Heard	2	Explosion	Undetermined	N/K	04/11/0219, 11:35-11:36
N edge of Popasna (government-controlled, 69km W of Luhansk)	8-10km SSW	Heard	5	Explosion	Undetermined	N/K	04/11/0219, 14:30-14:34

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).