

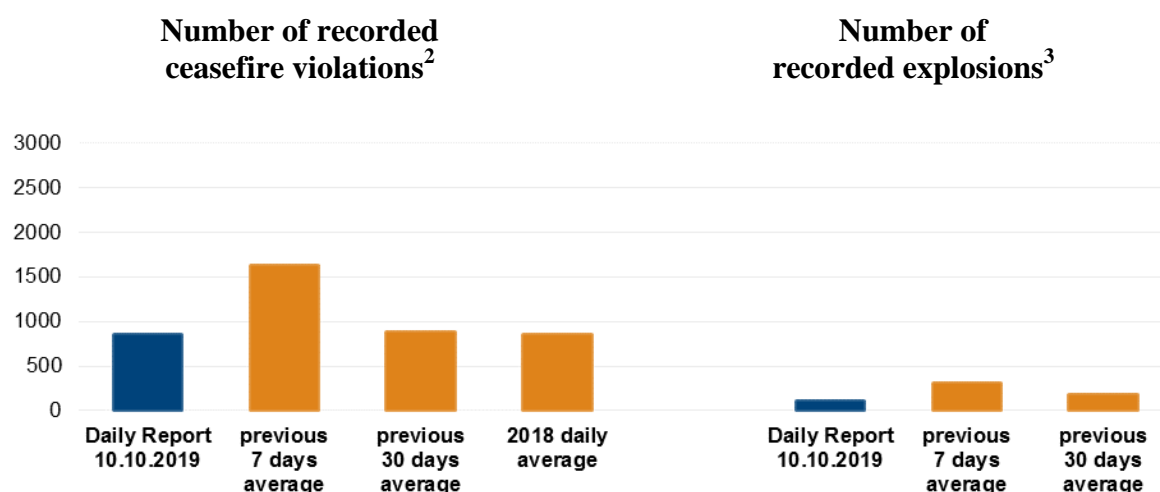
# Daily Report 240/2019

10 October 2019<sup>1</sup>

## Summary

- Compared with the previous reporting period, the SMM recorded fewer ceasefire violations in Donetsk region and more in Luhansk region.
- Inside the Stanytsia Luhanska disengagement area, the SMM saw ongoing dismantling works at the broken section of the bridge.
- The SMM observed a protest and an increased police and military presence outside the Zolote disengagement area. It also recorded ceasefire violations inside the Zolote and Petrivske disengagement areas.
- The Mission observed weapons in violation of withdrawal lines in non-government-controlled areas of Luhansk region.
- The SMM observed trenches (some of them new), mines and damage to civilian properties in the area of the destroyed Donetsk International airport.
- The SMM facilitated and monitored adherence to the ceasefire to facilitate repairs of critical civilian infrastructure on both sides of the contact line, including to power lines near Artema, maintenance works at the Phenol Sludge Reservoir near Zalizne as well as the drilling of wells near Raivka.
- Restrictions of the Mission's freedom of movement continued, including at four checkpoints in non-government-controlled areas of Donetsk region.\*

## Ceasefire violations<sup>1</sup>



<sup>1</sup> For a complete breakdown of ceasefire violations, please see the annexed table. During the reporting period, the SMM camera at the entry-exit checkpoint in Maiorsk was not operational.

<sup>2</sup> Including explosions.

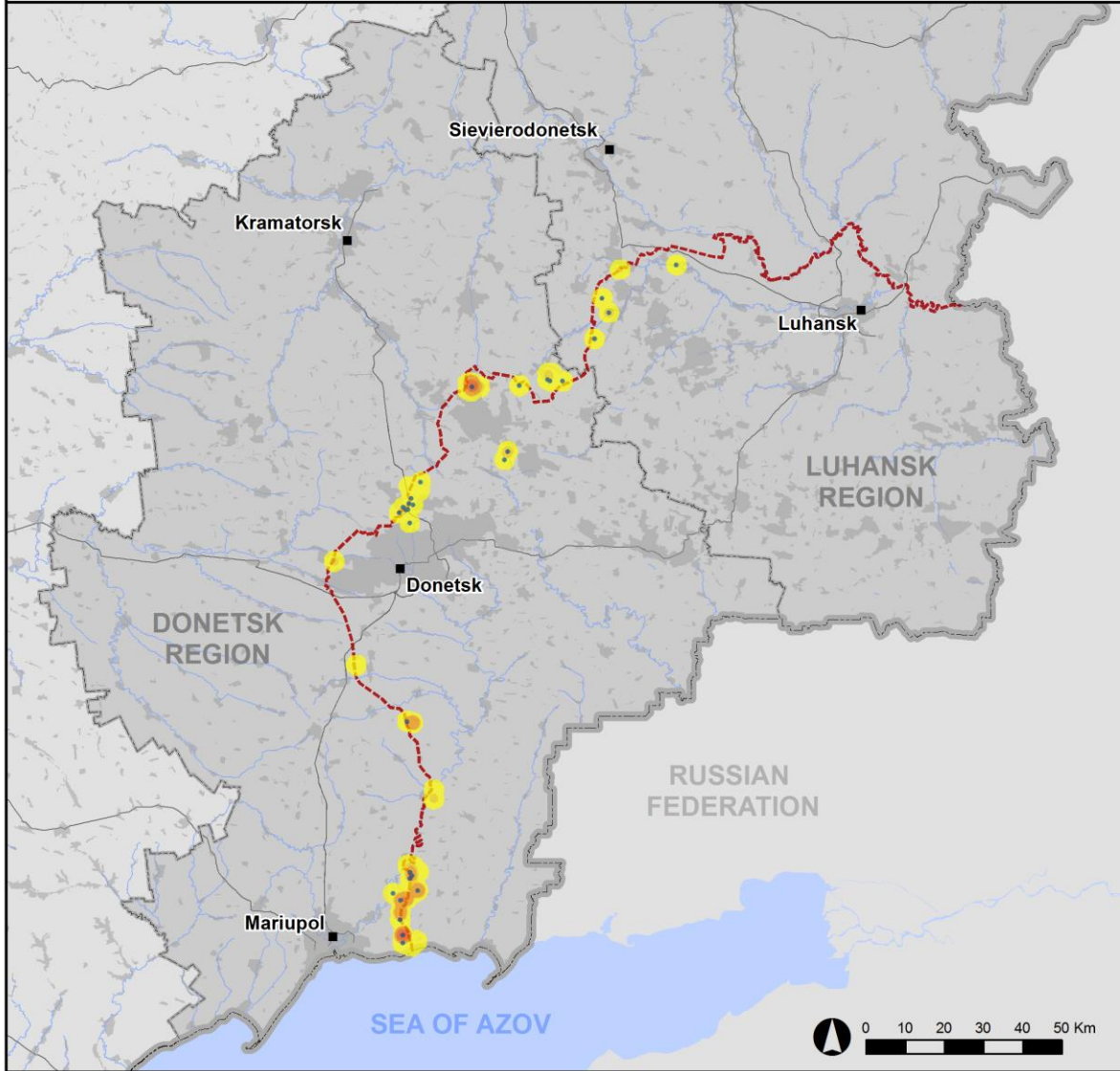
<sup>3</sup> Including from unidentified weapons.

### Map of recorded ceasefire violations

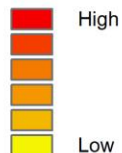


Organization for Security and  
Co-operation in Europe  
Special Monitoring Mission to Ukraine

## Ceasefire violations observed by the SMM 9 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: 10/10/2019

In Donetsk region, the SMM recorded fewer ceasefire violations, including fewer explosions (about 70), compared with the [previous reporting period](#) (about 140 explosions). The majority of ceasefire violations were recorded in areas north and north-east of Shyrokyne (government-controlled, 100km south of Donetsk), at easterly directions of Maiorsk (government-controlled, 45km north-east of Donetsk) and in areas south and south-south-east of Pyshevyk (government-controlled, 84km south of Donetsk).

In Luhansk region, the SMM recorded more ceasefire violations, including, more explosions (22), compared with the [previous reporting period](#) (12). The majority of ceasefire violations, including the majority of explosions, were recorded in areas west and west-south-west of Kadiivka (formerly Stakhanov, non-government-controlled, 50km west of Luhansk), south-east of Zolote (government-controlled, 60km west of Luhansk) and south-east of Popasna (government-controlled, 59km west of Luhansk).

### **Stanytsia Luhanska disengagement area**

On the morning of 9 October, the SMM saw ten workers from government-controlled areas with two machines and equipment dismantling metal parts of the broken section of the Stanytsia Luhanska bridge (15km north-east of Luhansk) and 17 workers from government-controlled areas clearing vegetation on the western side of the road, about 100m north of the broken section of the bridge. On the same morning, the SMM saw 25 workers from government-controlled areas with an excavator and a dump truck continuing to install poles on the road north of the broken section of the bridge (dividing it into two lanes – one for pedestrians and one for vehicular traffic). In the afternoon, the SMM saw four workers from government-controlled areas with an excavator and a dump truck removing the upper layer of asphalt at the northern edge of the broken section of the bridge.

The SMM saw five 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 two fires burning about 35m west of the broken section of the bridge.

### **Disengagement areas near Zolote and Petrivske<sup>4</sup>**

On 7 October, inside the disengagement area near Zolote, an SMM mid-range unmanned aerial vehicle (UAV) spotted a probable combat reconnaissance vehicle (BRM-1K) in the yard of a house used by the Ukrainian Armed Forces in Katerynivka (government-controlled, 64km west of Luhansk).

Inside the disengagement area, the same UAV also spotted a military jeep at most forward position of the armed formations on the disengagement areas eastern edge and about 700m south its northern edge, as well as two people in military-style attire standing next to a car near a position of the armed formations, about 1.5km north of the area’s southern edge and about 35m west of its eastern edge. Outside the disengagement area, the UAV spotted ongoing refurbishment of existing bunkers assessed as belonging to the armed formations, about 1.5km south-west of the checkpoint of the armed formations on the disengagement area’s southern edge.

On the evening of 8 October, the SMM camera in Zolote recorded eight projectiles in flight at an assessed range of 2-3km south-east, assessed as inside the disengagement area. On the

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<sup>4</sup> Disengagement is foreseen in the [Framework Decision of the Trilateral Contact Group relating to disengagement of forces and hardware](#) of 21 September 2016.

same evening, inside the disengagement area, an SMM long-range UAV spotted two persons close to positions of the armed formations, and five persons and a vehicle (SUV) close to positions of the Ukrainian Armed Forces.

On 9 October, in front of a civil-military administration building in Zolote-1/Soniachnyi (government-controlled, 61km west of Luhansk) and at an adjacent parking lot about 4km north-north-west of the disengagement area's northern edge, the SMM saw about 20 police officers. At the same time, the SMM saw four civilian cars and a van, each with at least four people dressed in military uniforms without insignia, driving at high-speed towards the checkpoint of the Ukrainian Armed Forces on the northern edge of the disengagement area near Zolote. At the checkpoint, the SMM saw about 80 unarmed people (men, 20-30 years old), including about 25 in military uniforms, with Ukrainian flags and a banner saying "We will stay in Zolote". The SMM observed about 30 armed police officers, about 30 armed officers of the State Border Guard Service of Ukraine, about 100 soldiers of the Ukrainian Armed Forces, two armoured vehicles (KrAZ Cougar, one with a mounted heavy machine gun) at the northern edge of the disengagement area and an armoured ambulance (MT-LB S) and 15 military trucks in the vicinity of the checkpoint of the Ukrainian Armed Forces north of the disengagement area.

On the morning of the same day, outside the disengagement area near Zolote, the SMM saw three excavators and two other engineering vehicles conducting demining activities about 100-300m east and west of the checkpoint of the Ukrainian Armed Forces near the northern edge of the disengagement area. Inside the disengagement area, the SMM also saw three deminers from government-controlled area with a metal detector conducting demining activities on the eastern side of road T-1316, about 500m south of the disengagement area's northern edge. Positioned at the checkpoint of the Ukrainian Armed Forces north of the disengagement area, the SMM heard an explosion 1-2km south-east, assessed as a controlled detonation inside the disengagement area.

On the morning of 9 October, the SMM saw seven members of the armed formations unloading a satellite dish and other equipment from a truck at the checkpoint of the armed formations on the southern edge of the Zolote disengagement area.

On 8 October, inside the disengagement area near Petrivske (non-government-controlled, 41km south of Donetsk), an SMM mini-UAV spotted an armoured personnel carrier (APC) (BTR-80), an armoured reconnaissance vehicle (BRDM-2SMD), a jeep and two heavy-utility trucks, about 1.2km east of its western edge and about 1.7km south of its northern edge, all assessed as belonging to the Ukrainian Armed Forces. On the night of 8-9 October, an SMM long-range UAV spotted a probable APC (BTR variant), a truck about 140m south and a probable armoured combat vehicle 30m and 750m east respectively of the aforementioned location, all assessed as belonging to the Ukrainian Armed Forces.

On 9 October, outside the disengagement area near Petrivske, an SMM mini-UAV [again](#) spotted 54 anti-tank mines (38 TM-62M and nine TM-62 laid across the road and seven on the northern and eastern sides of it) between Viktorivka (non-government-controlled, 42km south-west of Donetsk) and Bohdanivka (government-controlled, 41km south of Donetsk).

On the morning of 9 October, positioned about 2km north of the disengagement area near Petrivske, the SMM heard seven undetermined explosions about 3km south-west, assessed as inside the disengagement area. On the same morning, positioned at the SMM camera site in Petrivske, the SMM heard at least 51 shots and bursts of small-arms fire about 1km south, assessed as inside the disengagement area. On the same afternoon, positioned at the same location, while conducting a mini-UAV flight, the Mission heard two shots of small-arms fire about 1km south-west, assessed as inside the disengagement area and as possibly aimed at the



UAV, which was also flying about 1km south-west of the SMM's location. The SMM safely landed the UAV and left the area.\*

On the same day, the SMM saw for the first time 17 mine hazard signs (with "Stop, Mines" written in Russian and "Danger, Mines" written in English) on both sides of an approximately 300m-long stretch of the road in Petrivske, about 90-350m east of the disengagement area's eastern edge.

### **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 six weapons in violation of withdrawal lines in non-government-controlled areas of Luhansk region. It also observed weapons beyond withdrawal lines but outside storage sites in government-controlled areas of Donetsk region and in non-government-controlled areas of Luhansk region (for more details, see the tables below).

### **Indications of military presence in the security zone<sup>5</sup>**

The SMM observed military presence in the security zone in government-controlled areas and non-government-controlled areas, including armoured personnel carriers, armoured combat vehicles an infantry fighting vehicle, and an anti-aircraft system (for more details, see the table below).

### **Weapons that the SMM could not verify as withdrawn<sup>6</sup>**

9 October

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

The SMM noted that:

- five anti-tank guns (MT-12 *Rapira*, 100mm) and eight towed howitzers (2A36 *Giatsint-B*, 152mm) were present; and
- ten anti-tank guns (four MT-12 and six D-48, 85mm), 41 towed howitzers (12 2A36 and 29 D-20, 152mm) and seven self-propelled howitzers (2S3 *Akatsiya*, 152mm) were again missing.

### **Presence of trenches and mines in and near the destroyed Donetsk International airport as well as damage to civilian properties close to it**

On 7 October, an SMM mid-range UAV spotted three trenches (not seen in imagery from 27 June 2019) and a new trench (not seen in imagery from 24 September 2019) (all ranging from 40 to 140m-long) within the area of the destroyed Donetsk International airport, all assessed as belonging to the Ukrainian Armed Forces.

The same UAV spotted 72 [previously observed](#) anti-tank mines (22 across a former taxiway and 50 across the former runaway) at the same airport, all assessed as belonging to the armed formations.

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<sup>5</sup> The hardware mentioned in this section is not proscribed by the provisions of the Minsk agreements on the withdrawal of weapons.

<sup>6</sup> 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.

About 2.3km of the airport's main runway, the same UAV spotted damage on four buildings at an industrial compound on the western edge of Opytne (government-controlled, 12km north-west of Donetsk) (not seen in imagery from 27 June 2019).

### **SMM facilitation of operation of and repair works to civilian infrastructure**

The SMM monitored adherence to the ceasefire to enable repairs to a water pipeline, to power lines servicing the Petrivske pumping station near Artema (government-controlled, 26km north of Luhansk), the drilling of wells near Raivka (non-government-controlled, 16km north-west of Luhansk) and to enable maintenance of the Phenol Sludge Reservoir near Zalizne (formerly Artemove, government-controlled, 42km north-east of Donetsk).

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).

### **Population survey in non-government-controlled areas of Donetsk and Luhansk region**

On 9 October, about 30 people (mixed gender and ages) from non-government-controlled areas of Donetsk and Luhansk regions told the SMM that they had received information that a population survey was being conducted in non-government-controlled areas, with some of them having already participated in it. At a population survey centre located in a school in Oleksandrivka (non-government-controlled, 20km south-west of Donetsk), five women conducting the survey told the SMM that they were instructed not to talk with the SMM (see below).

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

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

*The SMM's monitoring and freedom of movement are restricted by security hazards and threats, including risks posed by mines, unexploded ordnance (UXO) and other impediments – which vary from day to day. The SMM's mandate provides for safe and secure access throughout Ukraine. All signatories of the Package of Measures have agreed on the need for this safe and secure access, that restriction of the SMM's freedom of movement constitutes a violation, and on the need for rapid response to these violations. They have also agreed that the 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 5 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 in Staromykhailivka (non-government-controlled, 15km west of Donetsk), four members of the armed formations denied the SMM access to the village citing “a requirement for pre-arranged escort by those in control”.
- At a checkpoint near Shevchenko (non-government-controlled, 69km south of Donetsk), four members of the armed formations denied the SMM access to the village citing “the SMM's safety”.

- At a checkpoint 800m north of Zaichenko (non-government-controlled, 93km south of Donetsk), a member of the armed formations [again](#) prevented the SMM from proceeding towards Pikuzy (formerly Kominternove, non-government-controlled, 92km south of Donetsk) and Sakhanka (non-government-controlled, 97km south of Donetsk) citing “the SMM’s safety”.
- At a checkpoint on the northern edge of Novoazovsk (non-government-controlled, 102km south-east of Donetsk), two armed members of the armed formations denied the SMM access to the village citing “orders from superiors”.

*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:

- On the night of 8-9 October, an SMM-long range UAV experienced GPS signal interference, assessed as probable jamming, while flying over areas near Kostiantynivka (government-controlled, 60km north of Donetsk), Zolote-4/Rodina (government-controlled, 60km north-west of Luhansk), Luhanske (government-controlled, 59km north-east of Donetsk), Oleksandrivka (non-government-controlled, 20km south-west of Donetsk) and Krasnohorivka (government-controlled, 21km west of Donetsk).<sup>7</sup>
- On three occasions, an SMM mini-UAV experienced signal interference while flying near Petrivske (non-government-controlled, 41km south of Donetsk), assessed as caused by probable jamming.
- While conducting a mini-UAV flight over the Petrivske disengagement area, the SMM heard two shots of small-arms fire assessed as possibly aimed at the UAV, which it landed safely (see above).
- At a school in Oleksandrivka (non-government-controlled, 20km south-west of Donetsk), five women conducting a population survey centre told the SMM that they were instructed not to talk with the Mission (see above).

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<sup>7</sup> The interference could have originated from anywhere within the radius of kilometres from the UAVs’ position.

## Table of weapons

### Weapons in violation of the withdrawal lines

Date	No. of weapons	Type of weapons	Location	Source of observation
<b>Non-government-controlled areas</b>				
08/10/2019	5	Self-propelled howitzer (2S1 <i>Gvozdika</i> , 122mm)	Training area near Shymshynivka (27km south-west of Luhansk) (for previous observations see <a href="#">SMM Daily Report 21 September 2019</a> )	Mini-UAV
	1	Anti-tank gun (2A29, MT-12 <i>Rapira</i> , 100mm)		

### Beyond withdrawal lines but outside of designated storage sites

Date	No. of weapons	Type of weapons	Location	Source of observation
<b>Government-controlled areas</b>				
08/10/2019	2	Tank (T-72)	Zoria (40km north-west of Donetsk)	Mid-range UAV
	1	Surface-to-air missile system (9K35 <i>Strela-10</i> )	Near civilian houses in Kremenivka (78km south of Donetsk)	
<b>Non-government-controlled areas</b>				
08/10/2019	2	Tank (T-72B, one of which had its main gun removed)	Training area near Shymshynivka (27km south-west of Luhansk)	Mini-UAV

### **Table of military and military-type presence in the security zone<sup>8</sup>**

Date	No.	Type	Location	Source of observation
<b>Government-controlled areas</b>				
07/10/2019	1	Probable armoured combat vehicle	Zolote-4/Rodina (59km west of Luhansk)	Mid-range UAV
08/10/2019	1	Self-propelled anti-aircraft system (ZSU-23-4 <i>Shilka</i> , 23mm)	Near civilian houses in Kremenivka (78km south of Donetsk)	Mini-UAV
	4	Infantry fighting vehicle (BMP-1)	Near Orikhove (57km north-west of Luhansk)	
	3	Armoured combat vehicle	Near Troitske (69km west of Luhansk)	LR UAV
	1	Armoured combat vehicle	Near Zolote-4/Rodina (59km west of Luhansk)	
09/10/2019	2	Armoured combat vehicle	Near Novozvanivka (70km west of Luhansk)	LR UAV
	3	Armoured combat vehicle	Near Rozsady (62km north-east of Donetsk)	
	2	Probable armoured personnel carrier (BTR-80)	Near Troitske (30km north of Donetsk)	
	1	Armoured combat vehicle		
	2	Probable armoured personnel carrier (BTR-80)	Near Verkhnotoretske (23km north-east of Donetsk)	

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



	1	Probable armoured personnel carrier (BTR-80)	In eastern outskirts of Avdiivka (17km north of Donetsk)	
	1	Infantry fighting vehicle (BMP-1)	Near Pervomaiske (17km north-west of Donetsk)	
	2	Probable armoured combat vehicle	Near Slavne (26km south-west of Donetsk)	
	3	Probable armoured personnel carrier (BTR-60)	Near Novotroitske (36km south-west of Donetsk)	
	2	Armoured combat vehicle	Near Berezove (31km south-west of Donetsk)	
	1	Probable armoured reconnaissance vehicle (BRDM-2)	Near Krasnohorivka (21km west of Donetsk)	
	1	Armoured personnel carrier (BTR-80)	Trokhizbenka (32km north-west of Luhansk)	Patrol
	1	Armoured personnel carrier (BTR-70)	Near Novobakhmutivka (28km north of Donetsk)	Patrol
	1	Infantry fighting vehicle (BMP-2)	Southern outskirts of Zalizne (formerly Artemove, 42km north-east of Donetsk)	Patrol
<b>Non-government-controlled areas</b>				
08/10/2019	1	Armoured combat vehicle	Near Nadarivka (64km west of Luhansk)	LR UAV
	1	Probable armoured combat vehicle	Near Dokuchaievsk (30km south-west of Donetsk)	

**Table of ceasefire violations as of 9 October 2019<sup>9</sup>**

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time	
SMM camera in Berezove (government-controlled, 31km SW of Donetsk)	3-5km SE	Recorded	3	Projectile	W to E	N/K	9-Oct, 04:42	
	4-6km SSE	Recorded	1	Muzzle flash		N/K	8-Oct, 19:45	
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	4-6km SSE	Recorded	1	Explosion	Airburst, subsequent to previous event	N/K	8-Oct, 19:45	
	4-6km SSE	Recorded	1	Projectile	In vertical flight	N/K	8-Oct, 19:45	
	4-6km SSE	Recorded	2	Projectile	WSW to ENE	N/K	8-Oct, 19:45	
	4-6km SSE	Recorded	1	Projectile	WSW to ENE	N/K	8-Oct, 19:47	
	2-4km SE	Recorded	2	Projectile	ENE to WSW	N/K	8-Oct, 21:09	
	4-6km SE	Recorded	1	Projectile	NE to SW	N/K	8-Oct, 21:16	
	3-5km SSE	Recorded	4	Projectile	WSW to ENE	N/K	8-Oct, 21:24	
	3-5km SSE	Recorded	1	Explosion	Impact	N/K	8-Oct, 21:24	
	2-4km SE	Recorded	2	Projectile	WSW to ENE	N/K	8-Oct, 21:27	
	3-5km SE	Recorded	1	Projectile	WSW to ENE	N/K	8-Oct, 22:03	
	2-4km SE	Recorded	1	Projectile	NE to SW	N/K	8-Oct, 22:37	
	8-10km SSE	Recorded	30	Projectile		ENE to WSW (also recorded by Hnutove camera)	N/K	9-Oct, 00:42
	8-10km SSE	Recorded	1	Explosion		Undetermined (also recorded by Hnutove camera)	N/K	9-Oct, 00:42
	8-10km SSE	Recorded	5	Projectile		WNW to ESE (also recorded by Hnutove camera)	N/K	9-Oct, 00:42
	8-10km SSE	Recorded	14	Projectile		ENE to WSW (also recorded by Hnutove camera)	N/K	9-Oct, 00:43
	8-10km SSE	Recorded	1	Projectile		WSW to ENE (also recorded by Hnutove camera)	N/K	9-Oct, 00:43
	8-10km SSE	Recorded	4	Projectile		ENE to WSW	N/K	9-Oct, 00:47
	1-3km SSE	Recorded	3	Projectile		NE to SW	N/K	9-Oct, 01:24
	3-5km SSE	Recorded	2	Projectile		WNW to ESE	N/K	9-Oct, 01:27
	2-4km SSE	Recorded	1	Projectile		NNE to SSW	N/K	9-Oct, 02:49
	6-8km SSE	Recorded	2	Projectile		SW to NE	N/K	9-Oct, 02:50
	8-10km S	Recorded	3	Projectile		WNW to ESE	N/K	9-Oct, 02:53
	2-4km SSE	Recorded	1	Projectile		NE to SW	N/K	9-Oct, 03:19
4-6km SSE	Recorded	2	Projectile		NNW to SSE	N/K	9-Oct, 04:10	
4-6km SSE	Recorded	5	Projectile		NE to SW	N/K	9-Oct, 04:10	
4-6km SSE	Recorded	2	Projectile		W to E	N/K	9-Oct, 04:19	
2-4km SSE	Recorded	3	Projectile		SW to NE	N/K	9-Oct, 05:58	
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	2-4km SSW	Recorded	2	Projectile	In vertical flight	N/K	8-Oct, 19:31	
SMM camera 1.5km NE of Hnutove	4-7km S	Recorded	1	Explosion	Undetermined	N/K	8-Oct, 21:48	
	2-4km E	Recorded	1	Projectile	S to N	N/K	8-Oct, 22:19	
	4-6km E	Recorded	1	Illumination flare		N/K	9-Oct, 00:37	

<sup>9</sup> 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.

(government-controlled, 90km S of Donetsk)	2-4km E	Recorded	1	Projectile	ENE to WSW	N/K	9-Oct, 03:03
SMM camera in Hranitne (government-controlled, 60km S of Donetsk)	2-4km ENE	Recorded	2	Projectile	NW to SE	N/K	9-Oct, 02:39
	2-4km ESE	Recorded	6	Projectile	SW to NE	N/K	9-Oct, 02:39
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	2-4km ESE	Recorded	4	Projectile	SW to NE	N/K	9-Oct, 02:40
	3-5km E	Recorded	Uncountable	Projectile	SW to NE	N/K	8-Oct, 20:41
	2-4km E	Recorded	2	Projectile	NW to SE	N/K	8-Oct, 21:12
	1-3km ESE	Recorded	1	Projectile	WNW to ESE	N/K	8-Oct, 21:28
	1-3km ENE	Recorded	1	Projectile	SW to NE	N/K	8-Oct, 21:50
	1-3km ESE	Recorded	1	Projectile	NW to SE	N/K	8-Oct, 21:50
	2-4km E	Recorded	2	Muzzle flash		N/K	8-Oct, 21:51
	2-4km E	Recorded	2	Projectile	N to S (subsequent to previous event)	N/K	8-Oct, 21:51
	2-4km E	Recorded	4	Projectile	N to S	N/K	8-Oct, 21:53
	2-4km E	Recorded	1	Explosion		N/K	8-Oct, 21:55
	3-5km E	Recorded	1	Projectile	In vertical flight	N/K	8-Oct, 21:58
	2-4km E	Recorded	2	Projectile	N to S	N/K	8-Oct, 21:59
	2-4km ENE	Recorded	2	Muzzle flash		N/K	8-Oct, 22:47
	2-4km ENE	Recorded	2	Projectile	WNW to ESE	N/K	8-Oct, 22:47
	2-4km ENE	Recorded	2	Projectile	NNW to SSE	N/K	8-Oct, 22:47
	2-4km E	Recorded	2	Projectile	N to S	N/K	8-Oct, 22:47
	2-4km E	Recorded	1	Projectile	NNW to SSE	N/K	8-Oct, 22:51
	2-4km E	Recorded	19	Projectile	N to S	N/K	8-Oct, 23:01
	2-4km ENE	Recorded	2	Projectile	N to S	N/K	8-Oct, 23:25
	2-4km ENE	Recorded	4	Projectile	WNW to ESE	N/K	8-Oct, 23:26
	2-4km ENE	Recorded	3	Projectile	NNW to SSE	N/K	8-Oct, 23:26
	2-4km ENE	Recorded	1	Projectile	WNW to ESE	N/K	9-Oct, 00:17
	2-4km ENE	Recorded	1	Projectile	NNW to SSE	N/K	9-Oct, 00:17
	2-4km E	Recorded	2	Burst	WNW to ESE (approximately 40 rounds)	N/K	9-Oct, 00:30
	2-4km E	Recorded	9	Projectile	NNW to SSE	N/K	9-Oct, 00:47
	2-4km E	Recorded	4	Projectile	NNW to SSE	N/K	9-Oct, 00:48
	2-4km ENE	Recorded	2	Projectile	NW to SE	N/K	9-Oct, 00:50
	2-4km E	Recorded	3	Projectile	NW to SE	N/K	9-Oct, 01:16
	2-4km E	Recorded	1	Explosion	Impact	N/K	9-Oct, 01:22
	3-5km E	Recorded	4	Projectile	N to S	N/K	9-Oct, 01:38
	3-5km E	Recorded	5	Projectile	S to N	N/K	9-Oct, 01:38
	2-4km E	Recorded	1	Projectile	NNW to SSE	N/K	9-Oct, 01:40
	2-4km ENE	Recorded	4	Projectile	S to N	N/K	9-Oct, 01:46
	2-4km E	Recorded	6	Projectile	NNW to SSE	N/K	9-Oct, 01:49
	4-6km E	Recorded	2	Projectile	N to S	N/K	9-Oct, 01:49
	4-6km E	Recorded	4	Projectile	S to N	N/K	9-Oct, 01:50
	4-6km E	Recorded	1	Projectile	N to S	N/K	9-Oct, 01:50
	2-4km ENE	Recorded	1	Projectile	NNW to SSE	N/K	9-Oct, 01:51
	2-4km ENE	Recorded	2	Projectile	NNW to SSE	N/K	9-Oct, 02:03
	2-4km ENE	Recorded	1	Projectile	NNW to SSE	N/K	9-Oct, 02:18
2-4km E	Recorded	1	Explosion	Impact	N/K	9-Oct, 02:19	
2-4km ENE	Recorded	1	Projectile	SW to NE	N/K	9-Oct, 02:55	
2-4km E	Recorded	7	Projectile	N to S	N/K	9-Oct, 02:56	
2-4km E	Recorded	1	Projectile	N to S	N/K	9-Oct, 02:57	
2-4km ENE	Recorded	6	Projectile	N to S	N/K	9-Oct, 03:17	
2-4km E	Recorded	3	Projectile	WNW to ESE	N/K	9-Oct, 03:18	
2-4km ESE	Recorded	1	Projectile	WNW to ESE	N/K	9-Oct, 03:23	
2-4km ESE	Recorded	1	Projectile	WNW to ESE	N/K	9-Oct, 03:30	
2-4km ESE	Recorded	4	Projectile	WSW to ENE	N/K	9-Oct, 03:30	
2-4km ESE	Recorded	6	Projectile	WSW to ENE	N/K	9-Oct, 03:31	

	2-4km ENE	Recorded	2	Projectile	WSW to ENE	N/K	9-Oct, 03:38
	2-4km ENE	Recorded	2	Projectile	NW to SE	N/K	9-Oct, 03:38
	2-4km E	Recorded	2	Projectile	WNW to ESE	N/K	9-Oct, 03:39
	2-4km E	Recorded	1	Projectile	N to S	N/K	9-Oct, 03:56
	2-4km ENE	Recorded	4	Projectile	N to S	N/K	9-Oct, 03:58
	2-4km ENE	Recorded	2	Projectile	N to S	N/K	9-Oct, 03:59
	2-4km ENE	Recorded	5	Projectile	NW to SE	N/K	9-Oct, 04:00
	2-4km ENE	Recorded	2	Projectile	NW to SE	N/K	9-Oct, 04:11
	2-4km E	Recorded	2	Projectile	N to S	N/K	9-Oct, 04:18
	4-6km E	Recorded	3	Projectile	WNW to ESE	N/K	9-Oct, 04:25
	2-4km E	Recorded	1	Projectile	NNW to SSE	N/K	9-Oct, 04:45
	2-4km E	Recorded	1	Projectile	NNW to SSE	N/K	9-Oct, 04:51
	2-4km ENE	Recorded	12	Projectile	N to S	N/K	9-Oct, 04:55
	2-4km ESE	Recorded	3	Projectile	W to E	N/K	9-Oct, 05:42
SMM camera at entry-exit checkpoint in Pyshchevyk (government-controlled, 84km S of Donetsk)	3-5km S	Recorded	1	Explosion	Undetermined (also recorded by Chermalyk camera)	N/K	8-Oct, 18:53
	3-5km S	Recorded	1	Illumination flare	In vertical flight (also recorded by Chermalyk)	N/K	8-Oct, 19:24
	3-5km S	Recorded	3	Projectile	W to E	N/K	8-Oct, 19:45
	3-5km S	Recorded	1	Explosion	Undetermined	N/K	8-Oct, 19:45
	3-5km S	Recorded	3	Projectile	W to E	N/K	8-Oct, 19:46
	3-5km S	Recorded	2	Projectile	W to E	N/K	8-Oct, 19:47
	8-10km S	Recorded	1	Explosion	Undetermined (also recorded in Chermalyk)	N/K	8-Oct, 21:13
	3-5km S	Recorded	12	Projectile	WNW to ESE (also recorded by Hnutove camera)	N/K	8-Oct, 22:49
	6-8km S	Recorded	3	Projectile	E to W	N/K	8-Oct, 23:27
	8-10km S	Recorded	1	Projectile	W to E	N/K	8-Oct, 23:40
	8-10km S	Recorded	2	Projectile	W to E	N/K	8-Oct, 23:42
	6-8km S	Recorded	4	Projectile	W to E	N/K	8-Oct, 23:53
	6-8km S	Recorded	6	Projectile	W to E	N/K	9-Oct, 01:21
	3-5km S	Recorded	4	Projectile	WNW to ESE	N/K	9-Oct, 02:14
	3-5km SSE	Recorded	3	Projectile	NE to SW	N/K	9-Oct, 02:22
	6-8km S	Recorded	2	Projectile	W to E	N/K	9-Oct, 02:39
	8-10km S	Recorded	1	Explosion		N/K	9-Oct, 02:41
	3-5km SSE	Recorded	20	Projectile	WNW to ESE (also recorded by Hnutove camera)	N/K	9-Oct, 02:55
	3-5km SSE	Recorded	20	Projectile	WNW to ESE (also recorded by Hnutove camera)	N/K	9-Oct, 03:04
	3-5km S	Recorded	12	Projectile	NW to SE	N/K	9-Oct, 03:13
	6-8km S	Recorded	1	Projectile	W to E	N/K	9-Oct, 03:27
	6-8km S	Recorded	3	Projectile	W to E	N/K	9-Oct, 03:30
	6-8km S	Recorded	1	Projectile	W to E	N/K	9-Oct, 03:33
	8-10km S	Recorded	2	Projectile	W to E	N/K	9-Oct, 03:52
	6-8km S	Recorded	4	Projectile	E to W	N/K	9-Oct, 04:36
	6-8km S	Recorded	2	Projectile	W to E	N/K	9-Oct, 04:37
	6-8km S	Recorded	2	Projectile	W to E	N/K	9-Oct, 05:01
6-8km S	Recorded	10	Projectile	E to W	N/K	9-Oct, 05:04	
6-8km S	Recorded	2	Projectile	E to W	N/K	9-Oct, 05:35	
SMM camera 1km SW of Shyrokyne (government-controlled, 100km S of Donetsk)	2-4km NNE	Recorded	1	Projectile	W to E	N/K	8-Oct, 18:59
	2-4km NE	Recorded	1	Projectile	ESE to WNW	N/K	8-Oct, 19:19
	2-4km NE	Recorded	1	Illumination flare	In vertical flight	N/K	8-Oct, 19:24
	2-4km N	Recorded	1	Projectile	WSW to ENE	N/K	8-Oct, 19:46
	2-4km N	Recorded	1	Explosion	Undetermined	N/K	8-Oct, 19:50
	4-6km N	Recorded	9	Projectile	W to E	N/K	8-Oct, 20:59
	4-6km N	Recorded	9	Projectile	W to E	N/K	8-Oct, 21:00

	4-6km N	Recorded	8	Projectile	WNW to ESE	N/K	8-Oct, 21:01
	4-6km N	Recorded	1	Projectile	W to E	N/K	8-Oct, 21:02
	4-6km N	Recorded	13	Projectile	W to E	N/K	8-Oct, 21:03
	4-6km N	Recorded	14	Projectile	W to E	N/K	8-Oct, 21:04
	4-6km N	Recorded	5	Projectile	W to E	N/K	8-Oct, 21:05
	4-6km N	Recorded	3	Projectile	W to E	N/K	8-Oct, 21:06
	4-6km N	Recorded	3	Explosion	Undetermined	N/K	8-Oct, 21:07
	4-6km N	Recorded	3	Projectile	W to E	N/K	8-Oct, 21:07
	4-6km N	Recorded	7	Projectile	W to E	N/K	8-Oct, 21:08
	4-6km N	Recorded	1	Projectile	SE to NW	N/K	8-Oct, 21:08
	4-6km N	Recorded	2	Projectile	W to E	N/K	8-Oct, 21:09
	4-6km N	Recorded	12	Projectile	W to E	N/K	8-Oct, 21:10
	4-6km N	Recorded	6	Projectile	W to E	N/K	8-Oct, 21:11
	4-6km N	Recorded	4	Projectile	W to E	N/K	8-Oct, 21:12
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	8-Oct, 21:12
	4-6km N	Recorded	4	Projectile	E to W	N/K	8-Oct, 21:18
	4-6km N	Recorded	2	Projectile	SW to NE	N/K	8-Oct, 21:18
	4-6km N	Recorded	6	Projectile	W to E	N/K	8-Oct, 21:19
	4-6km N	Recorded	4	Projectile	W to E	N/K	8-Oct, 21:20
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	8-Oct, 21:20
	4-6km N	Recorded	15	Projectile	W to E	N/K	8-Oct, 21:21
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	8-Oct, 21:21
	4-6km N	Recorded	6	Projectile		N/K	8-Oct, 21:22
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	8-Oct, 21:22
	4-6km NE	Recorded	1	Projectile	W to E	N/K	8-Oct, 21:28
	4-6km N	Recorded	3	Projectile	W to E	N/K	8-Oct, 21:56
	4-6km N	Recorded	1	Projectile	W to E	N/K	8-Oct, 21:57
	4-6km N	Recorded	6	Projectile	W to E	N/K	8-Oct, 23:23
	4-6km N	Recorded	8	Projectile	W to E	N/K	9-Oct, 02:29
	4-6km N	Recorded	30	Projectile	W to E	N/K	9-Oct, 02:32
	4-6km N	Recorded	2	Projectile	W to E	N/K	9-Oct, 02:54
	4-6km N	Recorded	5	Projectile	W to E	N/K	9-Oct, 03:04
	4-6km N	Recorded	3	Projectile	SE to NW	N/K	9-Oct, 04:34
	4-6km N	Recorded	1	Projectile	E to W	N/K	9-Oct, 04:53
SMM camera in Svitlodarsk (government-controlled, 57km NE of Donetsk)	3-5km E	Recorded	8	Projectile	N to S	N/K	8-Oct, 18:53
	4-6km ESE	Recorded	1	Explosion	Undetermined	N/K	8-Oct, 19:20
	4-6km E	Recorded	1	Projectile	WNW to ESE	N/K	8-Oct, 22:05
	4-6km ESE	Recorded	3	Projectile	S to N	N/K	8-Oct, 23:49
	4-6km ESE	Recorded	1	Projectile	S to N	N/K	9-Oct, 00:27
Krasnohorivka (government-controlled, 21km W of Donetsk)	2-3km SE	Heard	6	Burst		HMG	9-Oct, 10:42
	2-3km SE	Heard	4	Burst		HMG	9-Oct, 11:02
SE edge of Avdiivka (government-controlled, 17km N of Donetsk)	1-2km SE	Heard	1	Explosion	Outgoing	N/K	9-Oct, 10:50
	1-2km SE	Heard	1	Explosion	Outgoing	N/K	9-Oct, 10:55
	1-2km SE	Heard	1	Explosion	Outgoing	N/K	9-Oct, 11:00
	2-3km E	Heard	2	Explosion	Undetermined	N/K	9-Oct, 13:09
	2-3km S	Heard	6	Explosion	Undetermined	N/K	9-Oct, 15:14-15:21
	2-3km SE	Heard	1	Explosion	Undetermined	N/K	9-Oct, 15:35
	2-3km SE	Heard	2	Explosion	Undetermined	N/K	9-Oct, 16:05
About 1km E of Kruta Balka (non-government-controlled, 16km N of Donetsk)	1-2km N	Heard	1	Shot		Small arms	9-Oct, 11:57
About 1km NW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	1-2km WSW	Heard	2	Explosion		N/K	9-Oct, 13:40
About 1.8km N of	3km SW	Heard	7	Explosion	Undetermined	N/K	9-Oct, 08:01



Petrivske (non-government-controlled, 41km S of Donetsk)					(assessed as inside of Petrivske disengagement area)		
Petrivske (non-government-controlled, 41km S of Donetsk)	1km S	Heard	3	Shot	Assessed as inside of Petrivske disengagement area	Small arms	9-Oct, 09:45
	1km S	Heard	40	Shot	Assessed as inside of Petrivske disengagement area	Small arms	9-Oct, 10:05-10:38
	1km S	Heard	2	Burst	Assessed as inside of Petrivske disengagement area	Small arms	9-Oct, 10:53
	1km S	Heard	1	Burst	Assessed as inside of Petrivske disengagement area	Small arms	9-Oct, 11:13
	1km S	Heard	3	Shot	Assessed as inside of Petrivske disengagement area	Small arms	9-Oct, 11:20
	1km S	Heard	2	Shot	Assessed as inside of Petrivske disengagement area	Small arms	9-Oct, 11:33
	1km SW	Heard	2	Shot	Assessed as inside of Petrivske disengagement area	Small arms	9-Oct, 15:35
Debaltseve (non-government-controlled, 58km NE of Donetsk)	6-7km NNW	Heard and saw	1	Explosion	Impact	152mm artillery	9-Oct, 14:18
	8-10km NW	Heard	1	Explosion	Undetermined	N/K	9-Oct, 14:37
2km NE of Chernenko (government-controlled, 86km S of Donetsk)	N/K E	Heard and saw	1	Explosion	Impact	N/K	9-Oct, 10:11
Pavlopil (government-controlled, 84km S of Donetsk)	3-4km E	Heard	3	Explosion	Undetermined	N/K	9-Oct, 12:16
	3-4km E	Heard	1	Explosion	Undetermined	N/K	9-Oct, 12:27
Svitlodarsk (government-controlled, 57km NE of Donetsk)	4-5km SW	Heard	6	Explosion	Undetermined	N/K	8-Oct, 22:30-22:34
N of Staropetrivske (non-government-controlled, 35km NE of Donetsk)	2-4km NW	Heard	4	Explosion	Undetermined	N/K	9-Oct, 10:59-11:01
	1-3km NNW	Heard	8	Explosion	Undetermined	N/K	9-Oct, 11:14-11:48
	1-3km NNW	Heard	2	Burst		HMG	9-Oct, 11:14-11:48
	1-3km NNW	Heard	4	Shot		Small arms	9-Oct, 11:53-11:55
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	3-5km E	Heard	1	Explosion	Undetermined	N/K	9-Oct, 11:20
	4-5km SSE	Heard	2	Explosion	Undetermined	N/K	9-Oct, 13:40
	1-2km SE	Heard	3	Burst		HMG	9-Oct, 13:55
	1-2km SE	Heard	1	Burst		HMG	9-Oct, 14:02
SMM camera in Zolote (government-controlled, 60km W of Luhansk)	2-3km SE	Recorded	8	Projectile	N to S (assessed as inside the disengagement area)	N/K	8-Oct, 19:04
Kadiivka (formerly Stakhanov, non-government-controlled, 50km W of Luhansk)	10-15km W	Heard	6	Explosion	Undetermined	N/K	8-Oct, 17:44-18:24
	10-15km W	Heard	6	Burst		N/K	8-Oct, 17:44-18:24
	15-20km WSW	Heard	8	Explosion	Undetermined	N/K	8-Oct, 17:44-18:24

Popasna (government- controlled, 69km W of Luhansk)	7-10km SE	Heard	7	Explosion	Undetermined	N/K	9-Oct, 00:15-00:30
3km E of Orikhove- Donetske (government- controlled, 44km NW of Luhansk)	12-15km SW	Heard	1	Explosion	Undetermined	N/K	9-Oct, 13:15

### Map of Donetsk and Luhansk regions<sup>10</sup>



<sup>10</sup> 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).