

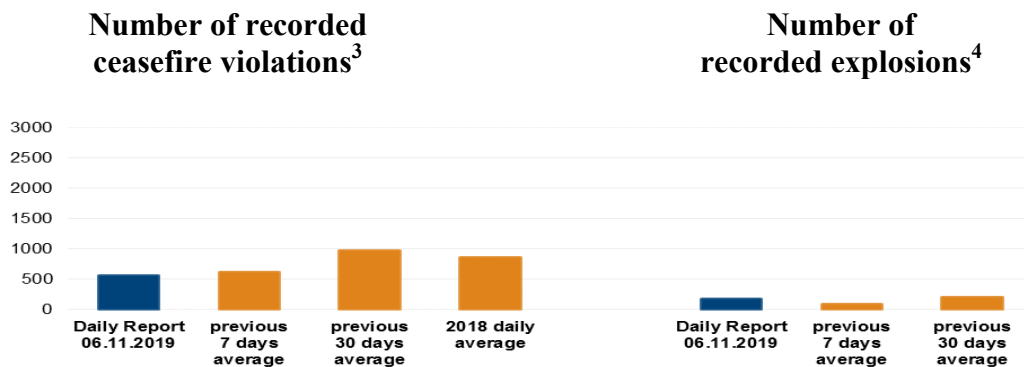
# Daily Report 263/2019

6 November 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.
- Small-arms fire was assessed as directed at an SMM mini-unmanned aerial vehicle near non-government-controlled Metalist.
- The Mission observed demining activities inside the Zolote disengagement area.
- Inside the Stanytsia Luhanska disengagement area, the Mission continued to observe construction works at the broken section of the bridge.
- The SMM observed weapons in violation of withdrawal lines in non-government-controlled areas of Luhansk region.
- The SMM continued to monitor the security situation in areas around the Donetsk Filtration Station and the pumping station near Vasylivka.
- The SMM monitored peaceful gatherings in Kyiv, Odessa, Chernivtsi, Kherson, Lviv and Uzhhorod commemorating the anniversary of the death of Kateryna Handziuk.
- Restrictions of the Mission's freedom of movement continued, including at a checkpoint near non-government-controlled Verkhnohyrokiivske.\*

## Ceasefire violations<sup>2</sup>



<sup>1</sup> Based on information from the Monitoring Teams as of 19:30, 5 November 2019. All times are in Eastern European Time.

<sup>2</sup> For a complete breakdown of ceasefire violations, please see the annexed table. During the reporting period, the SMM camera in Shyrokyne was not operational. During the reporting period, fog limited the observation capabilities of some of the SMM cameras.

<sup>3</sup> Including explosions.

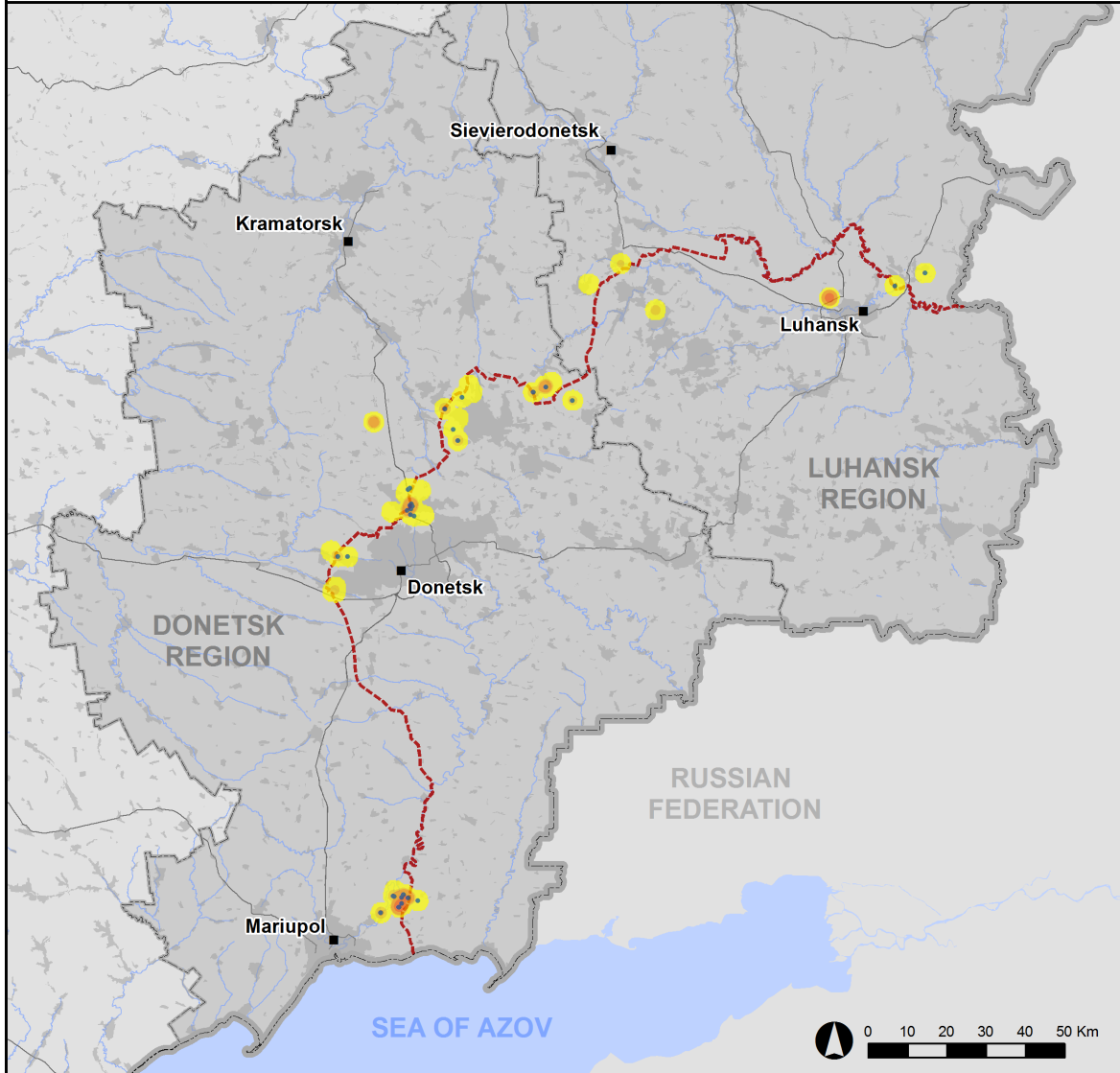
<sup>4</sup> Including from unidentified weapons.

Map of recorded ceasefire violations

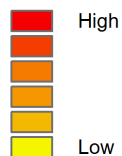


Organization for Security and  
Co-operation in Europe  
Special Monitoring Mission to Ukraine

**Ceasefire violations observed by the SMM  
5 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: 06/11/2019

In Donetsk region, the SMM recorded fewer ceasefire violations, including, however, more explosions (167), compared with the [previous reporting period](#) (about 125 explosions). The majority of the ceasefire violations were recorded in areas south-south-east of Hnutove (government-controlled, 90km south of Donetsk), at southerly directions of the Donetsk Filtration Station (DFS) (15km north of Donetsk), in areas south of Pyshevyk (government-controlled, 84km south of Donetsk), and, with the highest number of explosions, at southerly directions of Svitlodarsk (government-controlled, 57km north-east of Donetsk). During the night of 4-5 November, the SMM camera at the DFS recorded about 50 ceasefire violations within 500m of the camera, including six explosions, two of which were assessed as impacts at a range of 140-160m (see ceasefire violations table below).

In Luhansk region, the SMM recorded more ceasefire violations, including, however, fewer explosions (three), compared with the [previous reporting period](#) (about 30 explosions). The majority of the ceasefire violations were recorded in areas north-west of Metalist (non-government-controlled, 7km north-west of Luhansk), and north-west of Kadiivka (formerly Stakhanov, non-government-controlled, 50km west of Luhansk), and all three explosions were in areas east and south-west of Stanytsia Luhanska (government-controlled, 16km north-east of Luhansk).

#### **Small-arms fire directed at SMM mini-unmanned aerial vehicle (UAV) near Metalist**

On 5 November, positioned about 3km south-west of Metalist, while conducting a mini-UAV flight, the SMM heard about 100 shots of small-arms fire at an assessed range of 0.8-1km north-west, assessed as aimed at the UAV, which was flying over areas about 1.3km north-west of its position. The SMM safely landed the UAV and left the area.\*

#### **Disengagement areas near Zolote, Stanytsia Luhanska and Petrivske<sup>5</sup>**

Inside **the disengagement area near Zolote** (government-controlled, 60km west of Luhansk), the SMM saw 27 deminers and nine vehicles from the State Emergency Services (SES) of Ukraine working in areas about 150m east and 100m west of a section of road T-1316 (from the northern edge of the disengagement area to about 250m south of the northern edge). The SMM [again](#) observed a row of wooden sticks with red bands on top, placed about 25m west of road T-1316, starting from the northern edge of the disengagement area and continuing about 500m south, and saw for the first time a second row about 100m west of road T-1316, starting from the northern edge of the disengagement area and continuing to about 190m south. The SMM also saw two SES deminers about 100m east of road T-1316, about 180m south of the northern edge of the disengagement area, marking sections with additional red-topped sticks. An SMM mini-UAV [again](#) spotted three persons and a 165m-long barbed wire barrier running from west to east about 35m east of road T-1316 and about 60m south of the disengagement area's northern edge, and another 250m-long barbed wire barrier about 25m east of the first one's end running from south-east to north-east, starting from inside the disengagement area and extending about 180m outside of it.

The SMM observed eight deminers and 15 workers from non-government-controlled areas with a truck and equipment for clearing vegetation and conducting demining activities 15m

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

east and west of the road from 350m to 600m north of the southern edge of the disengagement area, inside of it. The SMM observed the same deminers marking an anti-tank mine for disposal 8-10m west of road T-1316, 500m north of the southern edge of the disengagement area.

Outside the disengagement area, the SMM observed an increased police presence in areas north and north-east of the disengagement area. In Zolote-4/Rodina (government-controlled, 59km west of Luhansk), the SMM observed five police patrols with police cars at various locations as well as three further police patrols at various locations along the road between the Ukrainian Armed Forces checkpoint on the northern edge of the disengagement area and Zolote-1/Soniachnyi (government-controlled, 61km west of Luhansk). In Zolote-4/Rodina, the SMM also saw 18 Ukrainian Armed Forces personnel and two armoured personnel carriers. An SMM mini-UAV spotted three persons in camouflage clothing about 40m north of the disengagement area and about 200m east of road T-1316.

At the checkpoint of the armed formations on the southern edge of the disengagement area, the SMM saw six members of the armed formations (wearing armbands with “JCCC” written on them), a senior member of the armed formations, and three people with a camera, microphone, and car, assessed as journalists from non-government-controlled areas.

On 4 November, outside the disengagement area, an SMM mini-UAV spotted three trucks and five persons, assessed as Ukrainian Armed Forces personnel filling wire mesh gabions near residential buildings about 70m north of the area’s northern edge and about 200m west-north-west of its north-eastern edge. The UAV also spotted two infantry fighting vehicles (BMP-2), a wheeled excavator (EOV-4421) and a truck about 100m east of the Ukrainian Armed Forces checkpoint about 300m north of the disengagement area’s northern edge. On the evening of 4 November, the SMM camera in Zolote recorded nine projectiles in flight 1-2km east, all assessed as outside the disengagement area.

Inside the **disengagement area near Stanytsia Luhanska**, the Mission saw 17 workers from government-controlled areas cutting and welding metal plates to the bridge and sandblasting the top surface of the bridge. The SMM saw five deminers from non-government-controlled areas clearing vegetation on the eastern side of the road between the shelter of an international humanitarian organization south of the bridge and the checkpoint of the armed formations. The SMM saw at least seven members of the armed formations (wearing armbands with “JCCC” written on them) between the broken section of the bridge and the checkpoint of the armed formations. During the evening in Stanytsia Luhanska, the SMM heard two explosions at an assessed range of 4-5km east and south-west, all assessed as outside the disengagement area.

Outside the **disengagement area near Petrivske** (non-government-controlled, 41km south of Donetsk), the SMM observed four members of the armed formations conducting foot patrols in Petrivske and three members of the armed formations on the road between Petrivske and Styła (non-government-controlled, 34km south of Donetsk) wearing white helmets and reflective vests.

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

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

*At two heavy weapons holding areas in government-controlled areas of Donetsk region*  
5 November

The SMM noted that:

- one surface-to-air missile system (9K35 *Strela-10*) was present and ten self-propelled howitzers (2S1 *Gvozdika*, 122mm) were present for the first time; and
- 11 self-propelled howitzers (2S1) continued to be missing.

### **Indications of military and military-type presence in the security zone<sup>7</sup>**

The SMM observed military and military-type presence in the security zone on both sides of the contact line, including infantry fighting vehicles, anti-aircraft guns (ZU-23, 23mm), and an armoured personnel carrier (for further details, see the table below).

### **Presence of anti-tank mines near Olenivka**

On 5 November, the SMM [again](#) saw two anti-tank mines (TM-62M) on the median strip between the lanes of road H-20 2.5km south-east of Olenivka (non-government-controlled, 23km south-west of Donetsk).

### **SMM facilitation of repairs to critical civilian infrastructure**

The SMM continued to monitor the security situation in areas around the Donetsk Filtration Station and the pumping station near Vasylivka (non-government-controlled, 20km north of Donetsk).

### **Gatherings in Kyiv, Odessa, Chernivtsi, Kherson, Lviv and Uzhhorod**

On 4 November, the SMM monitored peaceful gatherings of about 600 people in Kyiv (men and women, in their twenties and thirties), about 80 people (mostly men, mixed ages) in Odessa, about 50 people (men and women, mixed ages) each in Chernivtsi, Kherson and Lviv, and 15 people (men and women, mixed ages) in Uzhhorod (Zakarpattia region) (men and women, mixed ages) commemorating the one-year anniversary of the death of Kateryna Handziuk, a Kherson city council official and civil society activist.

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

<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. The SMM noted that one such site continued to be abandoned.

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

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

*The SMM's monitoring and freedom of movement are restricted by security hazards and threats, including risks posed by mines, unexploded ordnance (UXO) and other impediments – which vary from day to day. The SMM's mandate provides for safe and secure access throughout Ukraine. All signatories of the Package of Measures have agreed on the need for this safe and secure access, that restriction of the SMM's freedom of movement constitutes a violation, and on the need for rapid response to these violations. They have also agreed that the Joint Centre for Control and Co-ordination (JCCC) should contribute to such response and co-ordinate mine clearance. Nonetheless, the armed formations in parts of Donetsk and Luhansk regions frequently deny the SMM access to areas adjacent to Ukraine's border outside control of the Government (for example, see [SMM Daily Report 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 west of Verkhnohyrokiivske (formerly Oktiabr, non-government-controlled, 85km south of Donetsk), on two occasions, a member of the armed formations denied the SMM passage, citing “demining activities”.

### *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.

### Conditional access:

- At a checkpoint near Horlivka (non-government-controlled, 39km north-east of Donetsk), three armed members of the armed formations denied the SMM passage until the SMM allowed a search of the SMM vehicles. After nearly one hour, the SMM complied and was able to proceed.

### Other impediments:

- An SMM mini-UAV experienced GPS signal interference, assessed as due to probable jamming while flying near Lebedynske (government-controlled, 99km south of Donetsk).<sup>8</sup>
- On 5 November, positioned about 3km south-west of Metalist (non-government-controlled, 7km north-west of Luhansk), while conducting a mini-UAV flight, the SMM heard about 100 shots of small-arms fire 0.8-1km north-west, assessed as aimed at the UAV, which was flying over areas about 1.3km north-west of its position. The SMM safely landed the UAV and left the area (see above).

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<sup>8</sup> 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
<b>Non-government-controlled areas</b>				
03/11/2019	16	Self-propelled howitzer (type undetermined)	In a training area near Shymshynivka (27km south-west of Luhansk) (for previous observations, see <a href="#">SMM Daily Report 12 October 2019</a> )	Aerial imagery
04/11/2019	1	Tank (probable T-64)	In Novoselivka (16km west of Luhansk)	Mini-UAV
	1	Tank (undetermined type)		

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

Date	No. of weapons	Type of weapon	Location	Source of observation
<b>Government-controlled areas</b>				
05/11/2019	2	Self-propelled howitzers (2S1 Gvozdika, 122mm)	Kalynove (formerly Kalinine, 65km south-west of Donetsk)	Patrol
	4	Surface-to-air missile system (9K37M1)	Mariupol (102km south of Donetsk)	

### **Table of indications of military presence and military-type in the security zone<sup>9</sup>**

Date	No. of weapons	Type	Location	Source of observation
<b>Government-controlled areas</b>				
04/11/2019	4	Infantry fighting vehicle (BMP-2)	In Zolote (60km west of Luhansk)	Mini-UAV
	1	Armoured recovery vehicle (BREM-Ch)		
05/11/2019	1	Infantry fighting vehicle (BTR-4)	In the vicinity of residential buildings in Avdiivka (17km north of Donetsk)	Patrol
	1	Infantry fighting vehicle (BMP variant)	Near the entry-exit checkpoint near Novotroitske (36km south-west of Donetsk)	
	1	Anti-aircraft gun (ZU-23, 23mm) mounted on a truck	1km north-west of Pyshchevyk (84km south of Donetsk)	
<b>Non-government-controlled areas</b>				
04/11/2019	3	Probable infantry fighting vehicle (BMP variant)	Near Dovhe (22km north-west of Luhansk)	Mini-UAV
	1	Probable anti-aircraft gun (ZU-23, 23mm)		
	1	Anti-aircraft gun (ZU-23, 23mm) on a truck		
	1	Armoured personnel carrier (BTR-80)		
5/11/2019	1	<a href="#">Previously observed</a> trench (about 60m long, surrounding a mound) being extended by three members of the armed formations	About 6-8m north of a local road, about 3km south-east of Raivka (16km north-west of Luhansk)	Patrol

<sup>9</sup> 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 5 November 2019<sup>10</sup>**

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date and time
SMM camera in Avdiivka (government-controlled, 17km N of Donetsk)	3-4km ESE	Recorded	4	Explosion	Undetermined	N/K	5-Nov, 01:08
	3-4km ESE	Recorded	13	Projectile	SW to NE	N/K	5-Nov, 01:08
	3-4km ESE	Recorded	8	Projectile	SW to NE	N/K	5-Nov, 02:00
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	140-160m S	Recorded	2	Explosion	Impact	N/K	4-Nov, 18:24
	0.7-1.2km S	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 21:05
	200-400m SSW	Recorded	1	Explosion	Outgoing	N/K	4-Nov, 21:32
	0.2-1km SSW	Recorded	1	Projectile	NNW to SSE	N/K	4-Nov, 21:32
	0.7-1.2km S	Recorded	2	Explosion	Undetermined	N/K	4-Nov, 21:36
	0.7-1.2km S	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 21:37
	200-400m SSW	Recorded	8	Muzzle flash		N/K	4-Nov, 21:46
	200-400m SSW	Recorded	4	Muzzle flash		N/K	4-Nov, 21:53
	200-400m SSW	Recorded	1	Muzzle flash		N/K	4-Nov, 21:57
	200-400m SSW	Recorded	1	Muzzle flash		N/K	4-Nov, 21:58
	0.7-1km SSE	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 22:08
	100-300m SSE	Recorded	1	Explosion	Airburst	N/K	4-Nov, 22:08
	0.5-1km SSW	Recorded	2	Projectile	SSE to NNW	N/K	4-Nov, 22:20
	200-400m SSW	Recorded	2	Muzzle flash		N/K	4-Nov, 22:50
	0.7-1km SSE	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 22:50
	200-400m SSW	Recorded	3	Muzzle flash		N/K	4-Nov, 22:51
	200-400m S	Recorded	1	Muzzle flash		N/K	4-Nov, 22:54
	200-400m S	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 22:54
	0.6-1km SSE	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 22:54
	200-400m SSW	Recorded	4	Muzzle flash		N/K	4-Nov, 23:09
	200-400m SSW	Recorded	1	Muzzle flash		N/K	4-Nov, 23:34
	200-400m SSW	Recorded	1	Muzzle flash		N/K	4-Nov, 23:38
	500-800m SSW	Recorded	1	Explosion	Impact	N/K	4-Nov, 23:38
	200-400m SSW	Recorded	1	Muzzle flash		N/K	4-Nov, 23:50
	1-2km SSW	Recorded	2	Projectile	SE to NW	N/K	5-Nov, 00:22
	1-2km SSW	Recorded	1	Projectile	WNW to ESE	N/K	5-Nov, 00:41
	1-2km SSW	Recorded	1	Projectile	N to S	N/K	5-Nov, 00:41
	300-500m S	Recorded	1	Projectile	W to E	N/K	5-Nov, 01:19
300-500m S	Recorded	1	Muzzle flash		N/K	5-Nov, 01:19	
200-500m SSW	Recorded	8	Muzzle flash		N/K	5-Nov, 01:29	
SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk)	2-4km SE	Recorded	1	Projectile		N/K	4-Nov, 19:38
	2-4km SSE	Recorded	1	Explosion	Airburst	N/K	4-Nov, 19:38
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 20:26
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 20:29
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 20:32
	2-4km SSE	Recorded	1	Muzzle flash		N/K	4-Nov, 20:32
	2-4km SSE	Recorded	1	Projectile	NNE to SSW	N/K	4-Nov, 20:32
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 21:01
	2-4km SSE	Recorded	1	Muzzle flash		N/K	4-Nov, 21:01
	2-4km SSE	Recorded	3	Projectile	NNE to SSW	N/K	4-Nov, 21:19
	2-4km SSE	Recorded	4	Projectile	SSW to NNE	N/K	4-Nov, 21:19
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 21:32
	2-4km SSE	Recorded	2	Projectile	WSW to ENE	N/K	4-Nov, 22:04
	2-4km SSE	Recorded	3	Muzzle flash		N/K	4-Nov, 22:07
	2-4km SSE	Recorded	22	Projectile	NNE to SSW	N/K	4-Nov, 22:08
	2-4km SSE	Recorded	2	Projectile	WSW to ENE	N/K	4-Nov, 22:08

<sup>10</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.



	2-4km SSE	Recorded	3	Projectile	WSW to ENE	N/K	4-Nov, 22:10
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 22:10
	2-4km SSE	Recorded	1	Muzzle flash		N/K	4-Nov, 22:16
	2-4km SSE	Recorded	2	Muzzle flash		N/K	4-Nov, 22:17
	2-4km SSE	Recorded	2	Projectile	NNE to SSW	N/K	4-Nov, 22:17
	2-4km SSE	Recorded	2	Projectile	WSW to ENE	N/K	4-Nov, 22:36
	2-3km SSE	Recorded	5	Projectile	ENE to WSW	N/K	4-Nov, 22:39
	2-4km SSE	Recorded	3	Projectile	NNE to SSW	N/K	4-Nov, 22:39
	2-4km SSE	Recorded	8	Projectile	WSW to ENE	N/K	4-Nov, 23:09
	2-4km SSE	Recorded	8	Projectile	WSW to ENE	N/K	4-Nov, 23:22
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 23:58
	2-4km SSE	Recorded	2	Projectile	WSW to ENE	N/K	5-Nov, 00:20
	2-4km SSE	Recorded	2	Projectile	NNE to SSW	N/K	5-Nov, 00:28
	2-4km SSE	Recorded	1	Projectile	NNE to SSW	N/K	5-Nov, 01:07
	2-4km SSE	Recorded	5	Projectile	WSW to ENE	N/K	5-Nov, 05:05
	2-4km SSE	Recorded	14	Projectile	WSW to ENE	N/K	5-Nov, 05:22
SMM camera in Krasnohorivka (government-controlled, 21km W of Donetsk)	3-4km NNE	Recorded	4	Projectile	W to E	N/K	4-Nov, 22:05
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	2-4km ESE	Recorded	2	Projectile	In vertical flight	N/K	4-Nov, 21:40
	1-3km ENE	Recorded	1	Projectile	N to S	N/K	5-Nov, 03:08
	1-3km ENE	Recorded	1	Projectile	N to S	N/K	5-Nov, 04:52
	1-3km ENE	Recorded	1	Projectile	NW to SE	N/K	5-Nov, 05:08
SMM camera at entry-exit checkpoint in Pyshevyk (government-controlled, 84km S of Donetsk)	2-3km S	Recorded	1	Projectile	E to W	N/K	4-Nov, 19:38
	2-3km S	Recorded	1	Explosion	Impact	N/K	4-Nov, 19:38
	3-5km S	Recorded	8	Projectile	W to E	N/K	4-Nov, 22:45
	3-5km S	Recorded	1	Projectile	W to E	N/K	4-Nov, 22:59
	3-5km S	Recorded	1	Explosion	Impact	N/K	4-Nov, 22:59
	2-3km S	Recorded	2	Projectile	E to W	N/K	4-Nov, 23:13
	3-5km S	Recorded	5	Projectile	W to E	N/K	4-Nov, 23:31
	2-3km S	Recorded	6	Projectile	E to W	N/K	5-Nov, 00:20
	2-3km S	Recorded	6	Projectile	E to W	N/K	5-Nov, 00:55
	2-3km S	Recorded	1	Projectile	E to W	N/K	5-Nov, 03:15
	3-5km S	Recorded	4	Projectile	W to E	N/K	5-Nov, 03:36
	3-5km S	Recorded	1	Projectile	W to E	N/K	5-Nov, 04:32
	3-5km S	Recorded	15	Projectile	W to E	N/K	5-Nov, 04:33
	3-5km S	Recorded	1	Projectile	W to E	N/K	5-Nov, 05:14
SMM camera in Svitlodarsk (government-controlled, 57km NE of Donetsk)	4-6km ESE	Recorded	2	Projectile	S to N	N/K	5-Nov, 01:19
	4-6km ESE	Recorded	1	Projectile	S to N	N/K	5-Nov, 01:20
Debaltseve (non-government-controlled, 58km NE of Donetsk)	4-6km NW	Heard	1	Explosion	Undetermined	N/K	4-Nov, 20:31
	4-6km NW	Heard	10	Explosion	Undetermined	N/K	4-Nov, 20:53-20:58
About 1km E of Kruta Balka (non-government-controlled, 16km N of Donetsk)	2km N	Heard	3	Burst		Small arms	5-Nov, 11:00
About 1km N of the railway station in Yasnuvata (non-government-controlled, 16km NE of Donetsk)	3-5km SW	Heard	1	Explosion	Undetermined	N/K	5-Nov, 08:47
About 1km NW of the railway station in Yasnuvata (non-government-controlled, 16km NE of Donetsk)	2-4km SSE	Heard	2	Burst		HMG	5-Nov, 09:12
	2-4km SSE	Heard	2	Burst		HMG	5-Nov, 09:20

of Donetsk)							
Railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	2-4km SW	Heard	1	Explosion	Undetermined	N/K	5-Nov, 10:17
W edge of Donetsk city's Petrovskiy district (non-government-controlled, 15km SW of Donetsk city centre)	1-3km SSW	Heard	3	Burst		HMG	5-Nov, 12:15
	1-3km SSW	Heard	1	Burst		HMG	5-Nov, 12:16
	1-3km S	Heard	4	Shot		Small arms	5-Nov, 12:17
	0.5-1km S	Heard	5	Shot		Small arms	5-Nov, 12:22
Krasnohorivka (government-controlled, 21km W of Donetsk)	2-3km E	Heard	6	Explosion	Undetermined	N/K	5-Nov, 09:41-09:45
	2-3km E	Heard	5	Explosion	Undetermined	N/K	5-Nov, 09:49-09:53
	4-6km E	Heard	1	Explosion	Undetermined	N/K	5-Nov, 10:04
About 2km E of Avdiivka (government-controlled, 17km N of Donetsk)	3-5km SE	Heard	1	Explosion	Undetermined	N/K	5-Nov, 10:40
	3-4km NE	Heard	1	Explosion	Undetermined	N/K	5-Nov, 11:15
SW edge of Avdiivka (government-controlled, 17km N of Donetsk)	1-2km S	Heard	3	Shot		Small arms	5-Nov, 12:33
Orlivske (government-controlled, 82km S of Donetsk)	4-6km ESE	Heard	8	Explosion	Undetermined	N/K	5-Nov, 12:03
	4-6km ESE	Heard	3	Explosion	Undetermined	N/K	5-Nov, 12:15-12:20
	2-3km ESE	Heard	2	Shot		Small arms	5-Nov, 12:35-12:42
	4-6km ESE	Heard	5	Explosion	Undetermined	N/K	5-Nov, 12:35-12:42
	4-6km ESE	Heard	7	Burst		Cannon 30mm	5-Nov, 12:35-12:42
	8-10km ESE	Heard	2	Explosion	Undetermined	N/K	5-Nov, 12:48
Talakivka (government-controlled, 90km S of Donetsk)	N/K SE	Heard	2	Explosion	Undetermined	N/K	5-Nov, 09:50
	N/K SE	Heard	11	Explosion	Undetermined	N/K	5-Nov, 10:02-10:10
	N/K SE	Heard	3	Burst		Small arms	5-Nov, 10:02-10:10
About 2km NE of Chernenko (government-controlled, 86km S of Donetsk)	N/K SSE	Heard	2	Explosion	Undetermined	N/K	5-Nov, 09:45
	N/K SSE	Heard	3	Explosion	Undetermined	N/K	5-Nov, 11:02
Pavlopil (government-controlled, 84km S of Donetsk)	3-5km SSW	Heard	6	Explosion	Undetermined	N/K	5-Nov, 12:06-12:07
	3-5km SSW	Heard	3	Explosion	Undetermined	N/K	5-Nov, 12:14-12:15
1km SE of Pavlopil (government-controlled, 84km S of Donetsk)	2-4km SE	Heard	2	Explosion	Undetermined	N/K	5-Nov, 12:34
	2-4km SE	Heard	6	Explosion	Undetermined	N/K	5-Nov, 12:35-12:38
	2-4km SE	Heard	15	Burst		HMG	5-Nov, 12:40-12:55
	2-4km SE	Heard	10	Shot		Small arms	5-Nov, 12:40-12:55
	2-4km SE	Heard	3	Explosion	Undetermined	N/K	5-Nov, 12:40-12:55
Svitlodarsk (government-controlled, 57km NE of Donetsk)	4-5km SE	Heard	8	Explosion	Undetermined	N/K	4-Nov, 18:35-18:42
	4-5km S	Heard	10	Explosion	Undetermined	N/K	4-Nov, 18:43-18:49
	4-5km S	Heard	3	Explosion	Undetermined	N/K	4-Nov, 20:00-20:02

	4-5km S	Heard	2	Explosion	Undetermined	N/K	4-Nov, 20:08-20:10
	4-5km SE	Heard	10	Burst		HMG	4-Nov, 20:40-20:43
	4-5km SE	Heard	1	Explosion	Undetermined	N/K	4-Nov, 20:45
	3-5km SE	Heard	10	Burst		HMG	4-Nov, 21:20-21:21
	3-5km SE	Heard	8	Burst		HMG	4-Nov, 23:32-23:33
Horlivka (non-government-controlled, 39km NE of Donetsk)	3-5km SW	Heard	3	Shot		Small arms	4-Nov, 20:40
	3-5km W	Heard	1	Explosion		N/K	4-Nov, 20:45
	3-5km NW	Heard	3	Burst		Small arms	4-Nov, 23:46
	3-5km SW	Heard	2	Explosion	Undetermined	N/K	5-Nov, 14:49
	3-5km SW	Heard	2	Explosion	Undetermined	N/K	5-Nov, 14:54
	3-5km SW	Heard	7	Explosion	Undetermined	N/K	5-Nov, 15:05
About 6km NW of Horlivka (non-government controlled, 39km NE of Donetsk)	4-6km W	Heard	16	Explosion	Undetermined	N/K	5-Nov, 10:20-10:27
7km NW of Horlivka (non-government controlled, 39km NE of Donetsk)	2-3km W	Heard	4	Explosion	Undetermined	N/K	5-Nov, 13:40
Pravdivka (government-controlled, 38km N of Donetsk)	1-2km SSW	Heard	4	Burst		Small arms	5-Nov, 10:20-10:30
	1-2km SSW	Heard	10	Shot		Small arms	5-Nov, 10:20-10:30
	1-2km SSW	Heard	4	Burst		Small arms	5-Nov, 10:33-10:36
	1-2km SSW	Heard	10	Shot		Small arms	5-Nov, 10:33-10:36
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	2-3km S	Heard	4	Burst		Small arms	5-Nov, 08:52
	1-2km SSE	Heard	1	Explosion	Undetermined	N/K	5-Nov, 11:17
SMM camera on N edge of Popasna (government-controlled, 69km W of Luhansk)	2-4km SE	Recorded	1	Illumination flare	In vertical flight	N/K	4-Nov, 18:30
SMM camera in Zolote (government-controlled, 60km W of Luhansk)	1-2km E	Recorded	1	Projectile	NW to SE (assessed as outside the disengagement area)	N/K	4-Nov, 18:41
	1-2km E	Recorded	8	Projectile	NW to SE (assessed as outside the disengagement area)	N/K	4-Nov, 18:45
Kadiivka (formerly Stakhanov, non-government-controlled, 50km W of Luhansk)	1-2km NW	Heard	12	Shot		HMG	4-Nov, 19:07-19:08
3km SW of Metalist (non-government-controlled, 7km NW of Luhansk)	0.8-1km NW	Heard	100	Shot	Assessed as aimed at SMM mini-UAV	Small arms	5-Nov, 09:35-09:38
E edge of Stanytsia Luhanska (government-	4-5km E	Heard	1	Explosion	Undetermined (assessed as outside the	N/K	5-Nov, 17:15

controlled, 16km NE of Luhansk)					disengagement area)		
	4-5km E	Heard	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	5-Nov, 17:22
	4-5km SW	Heard	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	5-Nov, 17:55

## Map of Donetsk and Luhansk regions<sup>11</sup>



<sup>11</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).