

# Daily Report 271/2021

18 November 2021<sup>1</sup>

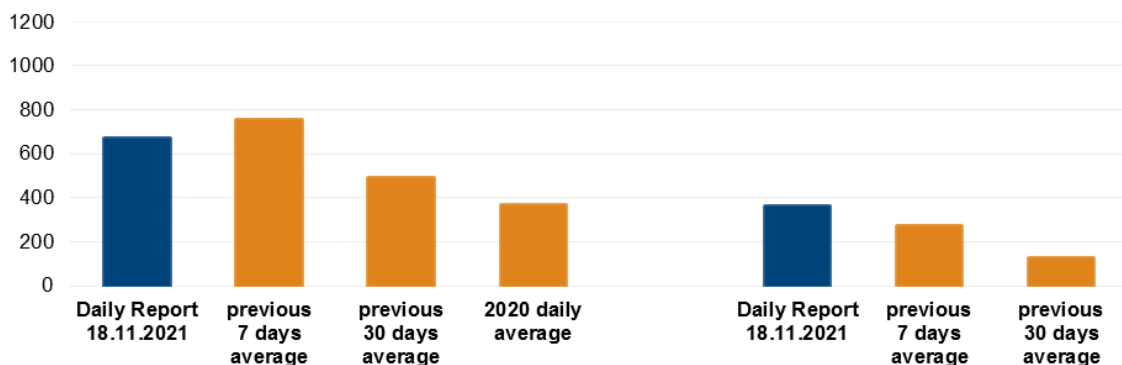
## Summary

- In Donetsk region, the SMM recorded 408 ceasefire violations, including 150 explosions. In the previous reporting period, it recorded 299 ceasefire violations in the region.
- In Luhansk region, the Mission recorded 256 ceasefire violations, including 205 explosions. In the previous reporting period, it recorded 145 ceasefire violations in the region.
- The SMM followed up on reports of damage to civilian properties and a working school in non-government controlled areas of Luhansk region.
- The Mission continued monitoring the disengagement areas near Stanytsia Luhanska, Zolote and Petrivske.
- The SMM facilitated and monitored adherence to localized ceasefires to enable the operation and repair of critical civilian infrastructure.
- The Mission continued following up on the situation of civilians, including at three entry-exit checkpoints and the corresponding checkpoints of the armed formations in Luhansk region.
- The SMM visited two border crossing points outside government control and monitored border areas outside government control in Donetsk and Luhansk regions.
- The Mission's freedom of movement continued to be restricted, including at checkpoints of the armed formations near Novohryhorivka, Zaichenko and Khreshchatytske (formerly Krasnoarmiiske), Donetsk region. Its UAVs again experienced multiple instances of probable jamming and jamming.\*

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

### Number of recorded ceasefire violations<sup>3</sup>

### Number of recorded explosions<sup>4</sup>



<sup>1</sup> Based on information from the Monitoring Teams as of 19:30, 17 November 2021. All times are in Eastern European Time.

<sup>2</sup> For a complete breakdown of ceasefire violations, please see the annexed table.

<sup>3</sup> Including explosions.

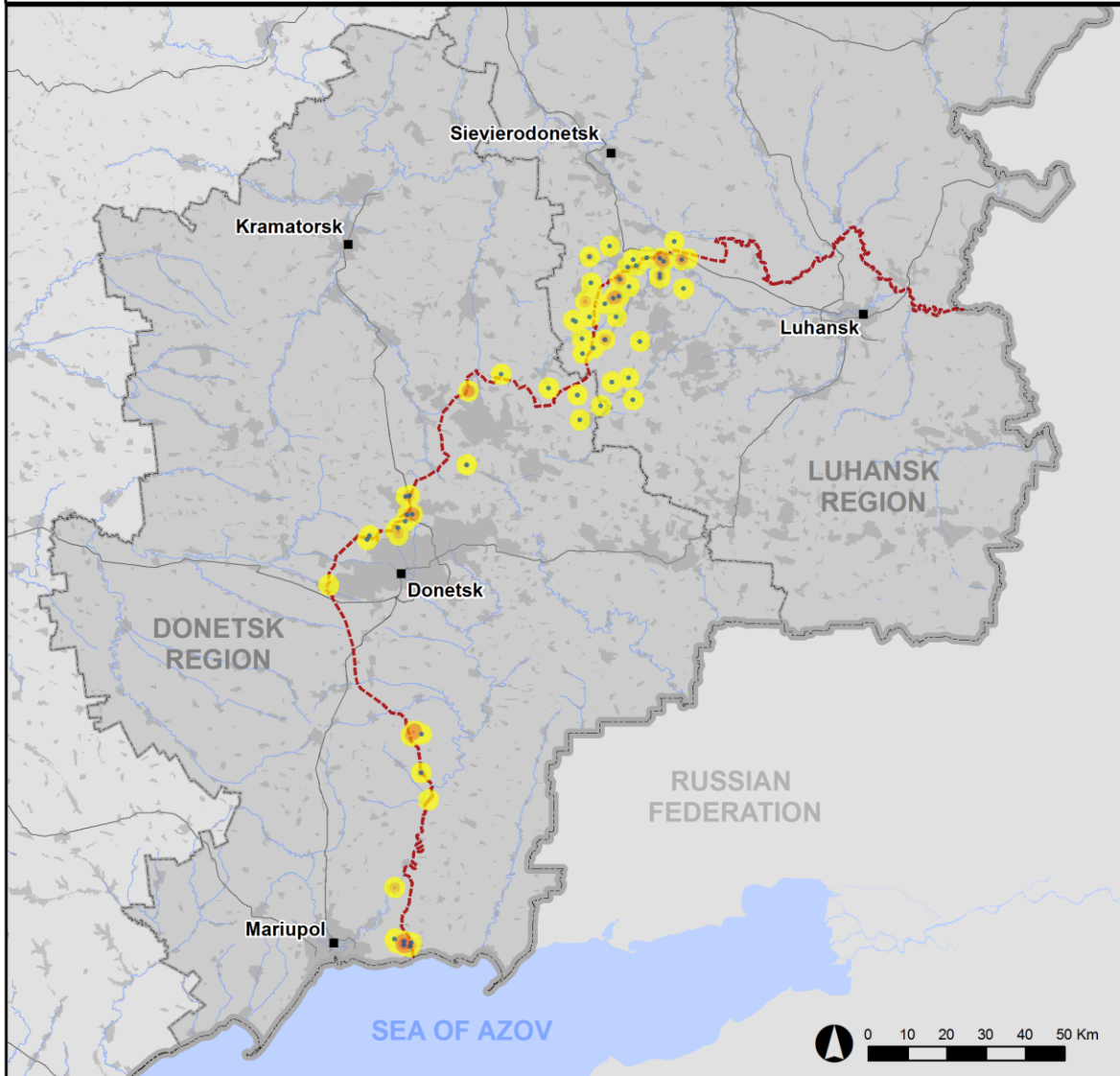
<sup>4</sup> Including from unidentified weapons.

### Map of recorded ceasefire violations

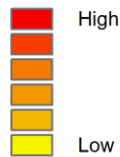


Organization for Security and  
Co-operation in Europe  
Special Monitoring Mission to Ukraine

## Ceasefire violations observed by the SMM 17 November 2021



#### 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: 18/11/2021

In Donetsk region, the SMM recorded 408 ceasefire violations, including 150 explosions (29 outgoing, five impacts, one airburst and 115 undetermined). The majority of ceasefire violations occurred in areas north of Shyrokyne (government-controlled, 100km south of Donetsk), north-west of the railway station in Yasynuvata (non-government-controlled, 16km north-east of Donetsk), and close to the disengagement area near Petrivske (non-government-controlled, 41km south of Donetsk) (see below). In the [previous reporting period](#), the Mission recorded 299 ceasefire violations in the region, some of which also occurred in areas north of Shyrokyne.

In Luhansk region, the SMM recorded 256 ceasefire violations, including 205 explosions (five outgoing, 14 impacts and 186 undetermined). The majority of ceasefire violations occurred at northerly and westerly directions of Kadiivka (formerly Stakhanov, non-government-controlled, 50km west of Luhansk) and in areas north-east of the disengagement area near Zolote (government-controlled, 60km west of Luhansk) (see below). In [the previous reporting period](#), the Mission recorded 145 ceasefire violations in the region, some of which also occurred in areas close to the disengagement area near Zolote.

Following agreement reached at the meeting of the Trilateral Contact Group on 22 July 2020 regarding Measures to strengthen the ceasefire, from 00:01 on 27 July 2020 until the end of the reporting period, the SMM has recorded at least 81,084 ceasefire violations in both Donetsk and Luhansk regions (including 22,356 explosions, 18,809 projectiles in flight, 383 muzzle flashes, 346 illumination flares and at least 39,190 bursts and shots).

### **The Mission followed up on reports of recent damage to civilian properties and a school in non-government-controlled areas of Luhansk region**

The SMM followed up on reports of recent damage to civilian properties in non-government-controlled areas of Luhansk region on 14 and 15 November.

On 15 November, at 3 Voinich Street in Lomuvatka (non-government-controlled, 57km west of Luhansk), the SMM observed a number of dents assessed as caused by shrapnel on the south-east-facing walls, roof, and one six-pane window of a one-storey inhabited house as well as in the soft ground of a garden located south-west of the house. It also saw damage to the house's south-west facing wall and to south-west and north-east facing wooden walls of a storage shed south-south-east of the house and a tree with broken branches, south-west of the house. The SMM assessed the damage as recent and caused by shrapnel from an explosion impacting a tree near the house.

On 15 November, at 57 Uralska Street in Lomuvatka, the SMM observed a hole (about 5x7cm) on the north-east facing metal entrance gate of a one-storey inhabited building, assessed as caused by shrapnel. It also observed two dents assessed as caused by shrapnel on the north-east facing wall of the house, as well as a hole (about 30x30cm) in a double-glazed window on the same wall. Inside the house, the SMM observed two dents assessed as shrapnel marks on a north-west facing tiled wall. The SMM assessed the damage as recent, but was unable to assess the weapon used or the direction of the fire.

On 15 November, the Mission observed a fresh impact crater north-east of a one-storey uninhabited residential house at 34 Udarna Street in Stare (formerly Chervonyi Prapor, non-government-controlled, 58km west of Luhansk). It also saw damage to the house's north-east facing wall, shattered glass from a window in the same wall, and glass fragments below the

window. The Mission also observed a heavily damaged underground cellar 3m north-east of the house, south-west of the crater. The SMM assessed the damage as recent but could not determine the weapon used or the direction of the fire.

On 16 November, at a working three-storey school building at 3 Voikova Street in Zolote-5/Mykhailivka (non-government-controlled, 60km west of Luhansk), the Mission observed a hole in a pane of a second-storey double-glazed window pane on the building's north-western side. Inside the building, about 8m north-west of the damaged window, the Mission saw a hole in a wall. The SMM also saw a hole in the glass of the upper right pane of a double-glazed window on the building's west-north-western side, as well as a 7.62mm calibre bullet between the two panes. The SMM assessed the damage as recent and caused by a 7.62mm calibre bullet.

On the same day, the school director (a woman in her fifties) told the Mission that during the day on 15 November, she had heard small-arms fire nearby while pupils had been present at the school.

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

Inside the disengagement area near **Stanytsia Luhanska** (government-controlled, 16km north-east of Luhansk), the Mission saw four members of the armed formations (wearing armbands with "JCCC" written on them) south of the repaired span of the Stanytsia Luhanska bridge (15km north-east of Luhansk).

On 16 November, inside the **disengagement area near Zolote**, an SMM long-range unmanned aerial vehicle (UAV) spotted a person inside a former position of the armed formations, about 1.5 km north of the area's south-eastern corner.

Outside the disengagement area, the same mini-UAV spotted ongoing construction works assessed as of two probable underground bunkers – one about 50m north of its northern edge and about 40m east of road T1316 ([previously reported](#)) and the second about 30m north of the area's northern edge and about 40m west of the same road (not previously reported).

Near the checkpoint of the armed formations south of the disengagement area, the Mission saw three members of the armed formations (wearing armbands with "JCCC" written on them). The SMM again saw the seven previously observed containers located south of the area's southern edge and inside the disengagement area. It saw that the previously reported road barriers across road T-1316, on the area's southern edge, continued to be closed.

During the reporting period, the SMM camera on the northern edge of Popasna (government-controlled, 69km west of Luhansk) recorded four projectiles in flight. During the same period, SMM patrols heard 37 explosions (six impacts and 31 undetermined). All these ceasefire violations were assessed as outside the area but within 5km of its periphery. While positioned in Orikhove (government-controlled, 75km north of Luhansk), the SMM heard 21 undetermined explosions, unable to be assessed whether they were inside or outside the disengagement area.

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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.

On the evening and night of 16-17 November, the SMM camera 2km east of Bohdanivka (government-controlled, 41km south-west of Donetsk) recorded 73 projectiles in flight and one burst, unable to be assessed whether they were inside or outside the area, and one undetermined explosion, assessed as outside the the **disengagement area near Petrivske**, but within 5km of its periphery.

On 16 November, inside the disengagement area, an SMM long-range UAV spotted two persons inside a former position of the armed formations, about 350m north-north-west of the area's south-eastern corner.

### **Withdrawal of weapons**

The Mission continued to monitor the withdrawal of weapons in implementation of the Memorandum and the Package of Measures and its Addendum.

In violation of withdrawal lines, the SMM observed one anti-tank gun in government-controlled areas of Donetsk region.

Beyond withdrawal lines but outside designated storage sites the Mission observed five tanks in a training area near Myrne in a non-government-controlled area in Luhansk region. (For further information, see the tables below.)

### **Indications of military and military-type presence in the security zone**

The Mission observed five armoured combat vehicles in government-controlled area of Donetsk and Luhansk regions, as well as four armoured combat vehicles and one anti-aircraft gun in a non-government-controlled area of Luhansk region. (For further information, see the table below.)

### **Presence of mine hazard signs near Novotroitske, Donetsk region and in Pervomaik, Luhansk region**

The Mission observed a mine hazard sign (yellow rectangular with images of a skull, crossbones, mines and unexploded ordnance and "Danger! Mines!" written on it in Ukrainian and Russian, not previously reported), about 2m south-east of an unnamed local road on the eastern outskirts of Novotroitske (government-controlled, 36km south-west of Donetsk).

### **SMM facilitation of the operation and repair of critical civilian infrastructure**

The Mission continued to facilitate the operation of the Donetsk Filtration Station (15km north of Donetsk) (DFS). While positioned at three locations near the DFS, the SMM heard 65 explosions (29 outgoing and 36 undetermined) and one burst of small-arms fire, assessed as within a 5km radius of the DFS.

The SMM also monitored adherence to a localized ceasefire to enable repair to a water pipeline near Hladosove (government-controlled, 51km north-east of Donetsk).

### **Situation at entry-exit checkpoints and corresponding checkpoints**

In Luhansk region, the SMM observed that the entry-exit checkpoint (EECP) near Stanytsia Luhanska and the corresponding checkpoint of the armed formations south of the Stanytsia Luhanska bridge were open, with people queueing to travel in both directions.

The Mission noted that the EECPs near Zolote and Shchastia (government-controlled, 20km north of Luhansk) were open, but that the corresponding checkpoints of the armed formations south of the disengagement area near Zolote and 3km south-east of the bridge in Shchastia were closed.

At the EECP near Shchastia, the SMM saw a convoy of six trucks (including five with a logo of an international organization) and one car, travelling from government- to non-government-controlled areas.

About 300m south of the EECP near Zolote, close to the intersection of road T-1316 and the road leading to Zolote-4/Rodina (government-controlled, 62km west of Luhansk), the SMM observed 16 workers conducting ground works, with some operating machinery. (For previous observations in this area, [SMM Daily Report of 17 November 2021](#).)

#### **Border areas outside government control<sup>6</sup>**

While at a border crossing point near Marynivka (non-government-controlled, 78km east of Donetsk), for about 47 minutes, the Mission saw five cars (including two with "DPR" plates), one covered cargo truck, three buses with "DPR" plates (each carrying passengers of mixed gender and ages) and 16 people (10 women and six men, mixed ages) entering Ukraine. During the same time, the SMM saw 16 cars (including 15 with "DPR" plates), four covered cargo trucks (including three with "DPR" plates), and seven people (three women and three men, mixed ages, and one child) exiting Ukraine.

While at a border crossing point near Uspenka (non-government-controlled, 73km south-east of Donetsk), for about 40 minutes, the Mission saw 12 cars (including 10 with "DPR" plates), five covered cargo trucks (including four with "DPR" plates), two buses (with "DPR" plates, including one carrying passengers of mixed gender and ages), and 33 people (14 women and 18 men, mixed ages, and one child) entering Ukraine. During the same time, the SMM saw nine cars (including four with "DPR" plates) and eight covered cargo trucks (including six with "DPR" plates) exiting Ukraine.

The SMM also monitored areas close to the border with the Russian Federation near Chervona Zoria (non-government-controlled, 84km east of Donetsk), Kvashyne (non-government-controlled, 65km south-east of Donetsk), Stepanivka (non-government-controlled, 76km east of Donetsk), Sukhodilsk (non-government-controlled, 38km south-east of Luhansk), Malyi Sukhodil (non-government-controlled, 44km south-east of Luhansk) and Uralo-Kavkaz (non-government-controlled, 46km south-east of Luhansk), and observed no change in the security situation.

On 16 November, an SMM long-range UAV spotted a train comprising 22 wagons, including five mixed coal hoppers and 16 oil tanks, near Kharkivske (non-government-controlled, 63km south-east of Donetsk), at about 10km north-west of the border with the Russian Federation.

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<sup>6</sup> According to decisions in 2014 by the Cabinet of Ministers of Ukraine, operations are officially designated as suspended at these and other border crossing points located outside government control.

## The SMM monitored two crossing points on the border with Belarus

While at border crossing points in Slavutych (120km north of Kyiv), Kyiv region and in Novi Yarylovychi (179km north of Kyiv), Chernihiv region, the Mission saw that they were open and saw traffic entering and exiting Ukraine at both border crossing points.

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

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

*The SMM's monitoring and freedom of movement are restricted by security hazards and threats, including risks posed by mines, unexploded ordnance (UXO) and other impediments – which vary from day to day. The SMM's mandate provides for safe and secure access throughout Ukraine. All signatories of the Minsk agreements 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 of 15 November 2021](#)). 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.*

### Denials:

- At a checkpoint near Novohryhorivka (non-government-controlled, 61km north-east of Donetsk), one visibly armed member of the armed formations denied the Mission passage north towards Sanzharivka (non-government-controlled, 67km north-east of Donetsk), citing “the SMM's safety”.
- At a checkpoint near Zaichenko (non-government-controlled, 93km south of Donetsk), two visibly armed members of the armed formations [again](#) denied the Mission passage west towards Pikuzy (formerly Kominternove, non-government-controlled, 92km south of Donetsk). While at the checkpoint, the SMM did not observe civilian traffic passing through.
- At a checkpoint near Khreshchatytske (formerly Krasnoarmiiske, non-government-controlled, 86km south of Donetsk), two visibly armed members of the armed formations [again](#) denied the Mission passage west towards Verkhnoшыrokivske (formerly Oktiabr, non-government-controlled, 85km south of Donetsk), citing “ongoing engineering activities” in the area. While at the checkpoint, the SMM observed civilian traffic passing through.

### *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:<sup>7</sup>

- On 17 November, while conducting a test flight, an SMM long-range UAV experienced GPS signal interference, assessed as caused by probable jamming, while flying over areas between Novoandriivka (government-controlled, 75km north-west of Donetsk) and Mykolaipillia (government-controlled, 61km north of Donetsk) and between Andriivka (government-controlled, 79km north-west of Donetsk) and Varvarivka (government-controlled, 81km north-west of Donetsk). The same UAV experienced GPS signal interference, assessed as caused by jamming, while flying over areas between Mykolaipillia and Andriivka.
- SMM mini-UAVs experienced GPS signal interference, assessed as caused by probable jamming, during 11 flights: twice each while flying over areas near Vozdvyzhenka (formerly Krasnyi Pakhar, government-controlled, 66km north-east of Donetsk), Nyzhnie Lozove (non-government-controlled, 59km north-east of Donetsk), and Ozerianivka (non-government-controlled, 35km north-east of Donetsk), where the Mission was planning to conduct an impact site assessment, and once each while flying over areas near government-controlled Novotroitske (36km south-west of Donetsk), Mykolaiv (40km south of Donetsk), Peremozhne (65km north-west of Luhansk) and Smolianynove (61km north-west of Luhansk), and non-government-controlled Pervomaisk (58km west of Luhansk).

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<sup>7</sup> For cases of probable jamming and jamming mentioned in this section, the interference could have originated from anywhere within the radius of tens of kilometres from the UAVs' positions.



**Table of weapons**  
Weapons in violation of withdrawal lines

Date	No. of weapons	Type of weapon	Location	Source of observation
<b>Government-controlled areas</b>				
17/11/2021	1	Anti-tank gun (type undetermined)	Near New York (formerly Novhorodske, 35km north of Donetsk)	Patrol

Weapons beyond withdrawal lines but outside designated storage sites

Date	No.	Type of weapon	Location	Source of observation
<b>Non-government-controlled areas</b>				
17/11/2021	5	Tank (type undetermined)	In a training area near Myrne (28km south-west of Luhansk)	Patrol

**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>				
16/11/2021	2	Armoured personnel carrier (BTR type)	In a compound in a residential area of Zoria (80km south of Donetsk)	Long-range UAV
	1	Armoured personnel carrier (MT-LB)	Near Popasna (69km west of Luhansk)	Mini-UAV
	2	Armoured combat vehicle (type undetermined)		Long-range UAV
<b>Non-government-controlled areas</b>				
16/11/2021	1	Anti-aircraft gun (ZU-23, 23mm)	In a compound near a residential area of Luhansk city	Mini-UAV
17/11/2021	4	Infantry fighting vehicle (three BMP-1 and one BMP-2)	In Sukhodil (21km west of Luhansk)	Patrol

<sup>8</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 17 November 2021<sup>9</sup>**

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera 2km E of Bohdaniivka (government-controlled, 41km SW of Donetsk)	3-5km SE	Recorded	2	Projectile	SW to NE (unable to be assessed as inside or outside the disengagement area)	N/K	16-Nov, 21:27
	3-5km SE	Recorded	3	Projectile	SW to NE (unable to be assessed as inside or outside the disengagement area near Petrivske)	N/K	16-Nov, 21:32
	3-5km ESE	Recorded	6	Projectile	In vertical flight (unable to be assessed as inside or outside the disengagement area near Petrivske)	N/K	16-Nov, 21:34
	3-5km ESE	Recorded	4	Projectile	N to S (unable to be assessed as inside or outside the disengagement area near Petrivske)	N/K	16-Nov, 21:34
	3-5km ESE	Recorded	1	Burst	N to S (unable to be assessed as inside or outside the disengagement area near Petrivske)	N/K	16-Nov, 22:00
	3-5km SE	Recorded	18	Projectile	SW to NE (unable to assess as inside or outside the disengagement area near Petrivske)	N/K	16-Nov, 22:57
	5-7km ESE	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area near Petrivske)	N/K	16-Nov, 23:17
	3-5km ESE	Recorded	3	Projectile	SSW to NNE (unable to be assessed as inside or outside the disengagement area near Petrivske)	N/K	16-Nov, 23:31
	3-5km ESE	Recorded	34	Projectile	N to S (unable to be assessed as inside or outside the disengagement area near Petrivske)	N/K	17-Nov, 00:10
	3-5km ESE	Recorded	3	Projectile	SW to NE (unable to be assessed as inside or outside the disengagement area near Petrivske)	N/K	17-Nov, 03:30
SMM camera in Hranitne (government-controlled, 60km S of Donetsk)	0.8-1.5km E	Recorded	6	Projectile	NW to SE	N/K	16-Nov, 22:58
	0.8-1.5km E	Recorded	1	Projectile	NW to SE	N/K	16-Nov, 23:01
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	0.5-3km E	Recorded	9	Projectile	NW to SE	N/K	16-Nov, 21:29
	0.5-3km E	Recorded	21	Projectile	NW to SE	N/K	16-Nov, 21:30
SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)	2-4km NNE	Recorded	1	Illumination flare	In vertical flight	N/K	17-Nov, 18:39
SMM camera at Oktiabr mine (non-government-controlled, 9km NW of Donetsk city centre)	3-5km W	Recorded	1	Explosion	Undetermined	N/K	17-Nov, 17:52
	3-5km W	Recorded	1	Explosion	Undetermined	N/K	17-Nov, 17:56
SMM camera 1km SW of Shyrokyne (government-controlled, 100km S of Donetsk)	4-6km N	Recorded	1	Explosion	Undetermined	N/K	16-Nov, 19:31
	4-6km N	Recorded	1	Explosion	Airburst	N/K	16-Nov, 19:31
	3-5km NNE	Recorded	1	Explosion	Undetermined	N/K	16-Nov, 20:03
	4-6km N	Recorded	1	Burst	WSW to ENE	N/K	16-Nov, 20:08
	3-5km N	Recorded	1	Muzzle flash		N/K	16-Nov, 20:16
	3-5km N	Recorded	1	Projectile	WSW to ENE (subsequent to previous event)	N/K	16-Nov, 20:16
	3-5km NNE	Recorded	1	Muzzle flash		N/K	16-Nov, 20:19
	3-5km NNE	Recorded	1	Projectile	ESE to WNW (subsequent to previous event)	N/K	16-Nov, 20:19
	3-5km NNE	Recorded	1	Projectile	WSW to ENE	N/K	16-Nov, 20:37
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	16-Nov, 20:39
	3-5km N	Recorded	2	Projectile	WSW to ENE	N/K	16-Nov, 20:39
	4-6km N	Recorded	3	Explosion	Undetermined	N/K	16-Nov, 20:49
3-5km N	Recorded	1	Projectile	WSW to ENE	N/K	16-Nov, 20:55	

<sup>9</sup> The table only includes ceasefire violations directly observed by SMM patrols or recorded by the SMM cameras, 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 technical monitoring officers, 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 technical limitations and/or other considerations. Ceasefire violations recorded by more than one patrol/camera and assessed to be the same are entered only once.

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	3-5km N	Recorded	2	Projectile	W to E	N/K	16-Nov, 20:55
	3-5km N	Recorded	2	Projectile	WSW to ENE	N/K	16-Nov, 20:58
	3-5km N	Recorded	2	Projectile	WSW to ENE	N/K	16-Nov, 20:59
	3-5km NNE	Recorded	1	Muzzle flash		N/K	16-Nov, 21:01
	3-5km NNE	Recorded	1	Projectile	WSW to ENE (subsequent to previous event)	N/K	16-Nov, 21:01
	4-6km N	Recorded	4	Explosion	Undetermined	N/K	16-Nov, 22:06
	3-5km N	Recorded	5	Projectile	ESE to WNW	N/K	16-Nov, 22:19
	3-5km N	Recorded	8	Projectile	ESE to WNW	N/K	16-Nov, 22:20
	3-5km N	Recorded	7	Projectile	ESE to WNW	N/K	16-Nov, 22:21
	3-5km N	Recorded	25	Projectile	ESE to WNW	N/K	16-Nov, 22:22
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	16-Nov, 22:24
	3-5km NNE	Recorded	1	Muzzle flash		N/K	16-Nov, 22:24
	3-5km NNE	Recorded	1	Projectile	ESE to WNW (subsequent to previous event)	N/K	16-Nov, 22:24
	3-5km NNE	Recorded	1	Muzzle flash		N/K	16-Nov, 22:25
	3-5km NNE	Recorded	1	Projectile	ESE to WNW (subsequent to previous event)	N/K	16-Nov, 22:25
	3-5km N	Recorded	1	Projectile	SW to NE	N/K	16-Nov, 22:26
	3-5km N	Recorded	2	Projectile	WSW to ENE	N/K	16-Nov, 22:26
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	16-Nov, 22:26
	3-5km NNE	Recorded	1	Explosion	Undetermined	N/K	16-Nov, 22:27
	3-5km NNE	Recorded	1	Muzzle flash		N/K	16-Nov, 22:28
	3-5km NNE	Recorded	1	Projectile	In vertical flight (subsequent to previous event)	N/K	16-Nov, 22:28
	3-5km N	Recorded	1	Projectile	WSW to ENE	N/K	16-Nov, 22:29
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	16-Nov, 22:29
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	16-Nov, 22:31
	4-6km NNE	Recorded	1	Muzzle flash		N/K	16-Nov, 22:31
	4-6km NNE	Recorded	1	Projectile	ESE to WNW (subsequent to previous event)	N/K	16-Nov, 22:31
	4-6km NNE	Recorded	1	Muzzle flash		N/K	16-Nov, 22:32
	4-6km NNE	Recorded	1	Projectile	ESE to WNW (subsequent to previous event)	N/K	16-Nov, 22:32
	4-6km N	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	16-Nov, 22:32
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	16-Nov, 22:33
	4-6km NNE	Recorded	1	Explosion	Undetermined	N/K	16-Nov, 22:34
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	16-Nov, 22:35
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	16-Nov, 22:37
	4-6km N	Recorded	4	Explosion	Undetermined	N/K	16-Nov, 22:39
	3-5km NNE	Recorded	1	Muzzle flash		N/K	16-Nov, 22:41
	3-5km NNE	Recorded	1	Projectile	ESE to WNW (subsequent to previous event)	N/K	16-Nov, 22:41
	3-5km NNE	Recorded	1	Explosion	Undetermined	N/K	16-Nov, 22:44
	4-6km N	Recorded	4	Explosion	Undetermined	N/K	16-Nov, 22:44
	3-5km N	Recorded	1	Muzzle flash		N/K	16-Nov, 22:46
	3-5km N	Recorded	1	Projectile	ESE to WNW (subsequent to previous event)	N/K	16-Nov, 22:46
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	16-Nov, 22:47
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	16-Nov, 22:48
	3-5km NNE	Recorded	1	Projectile	In vertical flight	N/K	16-Nov, 22:50
	3-5km NNE	Recorded	1	Illumination flare	In vertical flight	N/K	16-Nov, 22:54
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	16-Nov, 23:00
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	16-Nov, 23:03
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	16-Nov, 23:04
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	16-Nov, 23:09
	4-6km N	Recorded	1	Projectile	WSW to ENE	N/K	16-Nov, 23:12
	4-6km N	Recorded	1	Projectile	WSW to ENE	N/K	16-Nov, 23:13
	4-6km N	Recorded	8	Projectile	WSW to ENE	N/K	16-Nov, 23:14
	4-6km N	Recorded	2	Explosion	Impact (subsequent to previous event)	N/K	16-Nov, 23:14
	3-5km N	Recorded	2	Projectile	WSW to ENE	N/K	16-Nov, 23:17
	4-6km NNW	Recorded	1	Muzzle flash		N/K	16-Nov, 23:21
	4-6km NNW	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	16-Nov, 23:21
	4-6km N	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	16-Nov, 23:21
	4-6km N	Recorded	2	Projectile	SW to NE	N/K	16-Nov, 23:21

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	3-5km N	Recorded	1	Projectile	WSW to ENE	N/K	16-Nov, 23:22
	4-6km N	Recorded	12	Projectile	SW to NE	N/K	16-Nov, 23:24
	4-6km N	Recorded	1	Projectile	W to E	N/K	16-Nov, 23:27
	5-7km NNW	Recorded	1	Explosion	Undetermined	N/K	16-Nov, 23:27
	5-7km NNW	Recorded	1	Explosion	Undetermined	N/K	16-Nov, 23:30
	3-5km N	Recorded	2	Projectile	SW to NE	N/K	17-Nov, 01:33
	3-5km N	Recorded	11	Projectile	SW to NE	N/K	17-Nov, 01:34
	3-5km N	Recorded	2	Projectile	W to E	N/K	17-Nov, 16:51
About 1.5km WSW of Ozerianivka (non-government-controlled, 35km NE of Donetsk)	4-6km SSE	Heard	8	Explosion	Undetermined	N/K	17-Nov, 09:18-09:25
About 1km NW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	2-3km SW	Heard	20	Explosion	Outgoing	IFV (type N/K)	17-Nov, 09:55
	2-3km SW	Heard	9	Explosion	Outgoing	IFV (type N/K)	17-Nov, 09:55
	2-3km SW	Heard	9	Explosion	Undetermined	N/K	17-Nov, 09:55
	2-3km SW	Heard	1	Explosion	Undetermined	N/K	17-Nov, 10:45
	4-6km SW	Heard	1	Explosion	Undetermined	N/K	17-Nov, 10:55
About 800m ENE of Zhabunki (non-government-controlled, 9km NW of Donetsk)	4-5km NE	Heard	1	Explosion	Undetermined	N/K	17-Nov, 09:56
	4-5km NE	Heard	5	Explosion	Undetermined	N/K	17-Nov, 09:57-10:02
	3-4km NE	Heard	1	Burst		Small arms	17-Nov, 10:01
	3-4km NE	Heard	1	Burst		Small arms	17-Nov, 10:06
	4-5km NE	Heard	1	Explosion	Undetermined	N/K	17-Nov, 10:06
	3-4km ENE	Heard	10	Shot		Small arms	17-Nov, 10:08
About 800m S of Novohryhorivka (non-government-controlled, 61km NE of Donetsk)	4-6km NW	Heard	1	Explosion	Undetermined	N/K	17-Nov, 11:03-11:05
	3-5km SW	Heard	3	Explosion	Undetermined	N/K	17-Nov, 11:03-11:05
	4-6km NW	Heard	1	Explosion	Undetermined	N/K	17-Nov, 11:15
	4-6km NW	Heard	1	Explosion	Undetermined	N/K	17-Nov, 11:35
About 2km WNW of Pisky (government-controlled, 12km NW of Donetsk)	1-2km ESE	Heard	4	Burst		HMG	17-Nov, 09:59-10:02
	1-2km ESE	Heard	1	Explosion	Undetermined	N/K	17-Nov, 10:06
	1-2km ESE	Heard	1	Burst		HMG	17-Nov, 10:06
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	2-3km SSE	Heard	11	Explosion	Undetermined	N/K	17-Nov, 09:55
	2-3km SSE	Heard	1	Burst		HMG	17-Nov, 09:55
	2-3km S	Heard	5	Explosion	Undetermined	N/K	17-Nov, 10:07
SE part of Avdiivka (government-controlled, 17km N of Donetsk)	2-3km SE	Heard	4	Explosion	Undetermined	N/K	17-Nov, 10:01-10:02
	2-3km SE	Heard	5	Explosion	Undetermined	N/K	17-Nov, 10:06
About 2.5km SSW of Luhanske (government-controlled, 59km NE of Donetsk)	1.5km SE	Saw	1	Explosion	Impact	N/K	17-Nov, 11:06
About 1km E of Holmivskyi (non-government-controlled, 49km NE of Donetsk)	3-5km NNE	Heard	2	Explosion	Undetermined	N/K	17-Nov, 13:35
About 2.5km S of Novohryhorivka (government-controlled, 55km S of Donetsk)	4-6km NNE	Heard	10	Explosion	Undetermined	N/K	17-Nov, 11:15-11:35
About 2km NE of Chernenko (government-controlled, 86km S of Donetsk)	2-4km N	Heard	14	Shot		Small arms	17-Nov, 11:50-12:00
SMM camera on N edge of Popasna (government-controlled, 69km W of Luhansk)	3-5km SE	Recorded	4	Projectile	SW to NE (assessed as outside the disengagement area near Zolote)	N/K	16-Nov, 22:12
Almazna (non-government-controlled, 55km W of Luhansk)	10-15km S	Heard	3	Explosion	Undetermined	N/K	17-Nov, 09:10-09:25
Berezivske (non-government-controlled, 53km NW of Luhansk)	10-12km NW	Heard	1	Explosion	Undetermined	N/K	17-Nov, 09:37
	15-18km S	Heard	1	Explosion	Undetermined	N/K	17-Nov, 09:42

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
Holubivka (formerly Kirovsk, non-government-controlled, 51km W of Luhansk)	6-8km N	Heard	1	Explosion	Undetermined	N/K	17-Nov, 09:12
Kadiivka (formerly Stakhanov, non-government-controlled, 50 km W of Luhansk)	8-12km N	Heard	8	Explosion	Undetermined	N/K	17-Nov, 04:00-04:15
	14-16km WSW	Heard	14	Explosion	Undetermined	N/K	17-Nov, 13:55-14:15
	10-12km W	Heard	5	Explosion	Undetermined	N/K	17-Nov, 13:55-14:15
	14-16km N	Heard	19	Explosion	Undetermined	N/K	17-Nov, 13:55-14:15
	10-12km N	Heard	9	Explosion	Undetermined	N/K	17-Nov, 14:16-14:31
	10-12km NW	Heard	1	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	17-Nov, 14:16-14:31
	14-16km WSW	Heard	1	Explosion	Undetermined	N/K	17-Nov, 14:16-14:31
	14-16km N	Heard	14	Explosion	Undetermined	N/K	17-Nov, 14:31-14:51
	14-16km WSW	Heard	3	Explosion	Undetermined	N/K	17-Nov, 15:03-15:10
10-12km W	Heard	1	Explosion	Undetermined	N/K	17-Nov, 15:03-15:10	
Lomuvatka (non-government-controlled, 57km W of Luhansk)	6-10km S	Heard	1	Explosion	Undetermined	N/K	17-Nov, 10:30
Molodizhne (non-government-controlled, 63km NW of Luhansk)	10-15km SW	Heard	1	Explosion	Undetermined	N/K	17-Nov, 11:05
Novyi (non-government-controlled, 54km W of Luhansk)	10-15km SW	Heard	3	Explosion	Undetermined	N/K	17-Nov, 09:58-10:06
Orikhove (government-controlled, 57km NW of Luhansk)	7-10km ESE	Heard	22	Explosion	Undetermined	N/K	17-Nov, 13:30-13:55
	7-10km SSW	Heard	21	Explosion	Undetermined (unable to be assessed as inside or outside the disengagement area near Zolote)	N/K	17-Nov, 13:30-13:55
Pervomaïsk (non-government-controlled, 58 km W of Luhansk)	10-12km E	Heard	2	Explosion	Undetermined	N/K	17-Nov, 09:08-09:26
	18-20km SSW	Heard	5	Explosion	Undetermined	N/K	17-Nov, 10:08-10:23
	4-5km SSW	Heard	9	Shot	Undetermined	Small arms	17-Nov, 10:08-10:23
	4-6km NE	Heard	4	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	17-Nov, 10:08-10:23
	3-4km NNE	Heard	3	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	17-Nov, 10:08-10:23
	8-10km SW	Heard	1	Explosion	Undetermined	N/K	17-Nov, 13:08
	4-5km ESE	Heard	6	Explosion	Impact (assessed as outside the disengagement area near Zolote)	N/K	17-Nov, 13:36-13:40
	12-15km SSW	Heard	1	Explosion	Undetermined	N/K	17-Nov, 13:36-13:40
	10-12km NE	Heard	2	Explosion	Undetermined	N/K	17-Nov, 13:36-13:40
Popasna (government-controlled, 69km W of Luhansk)	5-7km NNE	Heard	10	Explosion	Outgoing	Artillery (122mm)	17-Nov, 07:00-07:10
	8-10km SE	Heard	5	Explosion	Impact	Artillery (122mm)	17-Nov, 07:00-07:10
	0.7-1km E	Heard and saw	3	Explosion	Impact	N/K	17-Nov, 13:45-14:10
	9-10km E	Heard	24	Explosion	Undetermined	N/K	17-Nov, 14:10-14:15
	2-3km ESE	Heard	15	Burst	Undetermined	HMG	17-Nov, 14:10-14:15
	5-7km S	Heard	2	Explosion	Undetermined	N/K	17-Nov, 14:10-14:15
	2-4km ESE	Heard	3	Explosion	Undetermined	N/K	17-Nov, 15:03-15:05
	8-10km NNW	Heard	6	Explosion	Undetermined	N/K	17-Nov, 10:23-10:25

<b>SMM position</b>	<b>Event location</b>	<b>Means</b>	<b>No.</b>	<b>Observation</b>	<b>Description</b>	<b>Weapon</b>	<b>Date, time</b>
Sentianivka (formerly Frunze, non-government-controlled, 44km W of Luhansk)	3-5km NNW	Heard	2	Explosion	Undetermined	N/K	17-Nov, 10:38-10:42
	3-5km NNW	Heard	22	Burst	Undetermined	HMG	17-Nov, 10:38-10:42
	3-5km N	Heard	1	Burst	Undetermined	HMG	17-Nov, 10:52
Verhulivka (non-government-controlled, 61km W of Luhansk)	6-10km SW	Heard	2	Explosion	Undetermined	N/K	17-Nov, 11:16

### 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 have 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 also patrols in this settlement during daylight hours).