



# Daily Report 262/2021

8 November 2021<sup>1</sup>

## Summary

- In Donetsk region, between the evenings of 5 and 7 November, the SMM recorded 661 ceasefire violations, including 87 explosions. In the previous reporting period, it recorded 482 ceasefire violations in the region.
- In Luhansk region, between the evenings of 5 and 7 November, the Mission recorded 178 ceasefire violations, including 74 explosions. In the previous reporting period, it recorded 148 ceasefire violations in the region.
- A non-SMM unmanned aerial vehicle was seen and ceasefire violations heard close to the SMM patrol in Bolotene, Luhansk region.
- The Mission continued monitoring the disengagement areas near Stanytsia Luhanska, Zolote and Petrivske. It recorded ceasefire violations inside the disengagement area near Petrivske.
- The SMM facilitated and monitored adherence to localized ceasefires to enable the operation of critical civilian infrastructure.
- The Mission continued following up on the situation of civilians, including at five entry-exit checkpoints and five corresponding checkpoints of the armed formations in Donetsk and Luhansk regions.
- The SMM monitored border areas outside government control in Donetsk region.
- The Mission monitored the security situation in east and south-east Kherson region.
- The SMM's freedom of movement continued to be restricted, including near the disengagement area near Petrivske, Donetsk region, and near a border crossing point outside government control near Leonove (formerly Chervonyi Zhovten), Luhansk region. Its UAVs again experienced multiple instances of probable jamming and jamming.\*

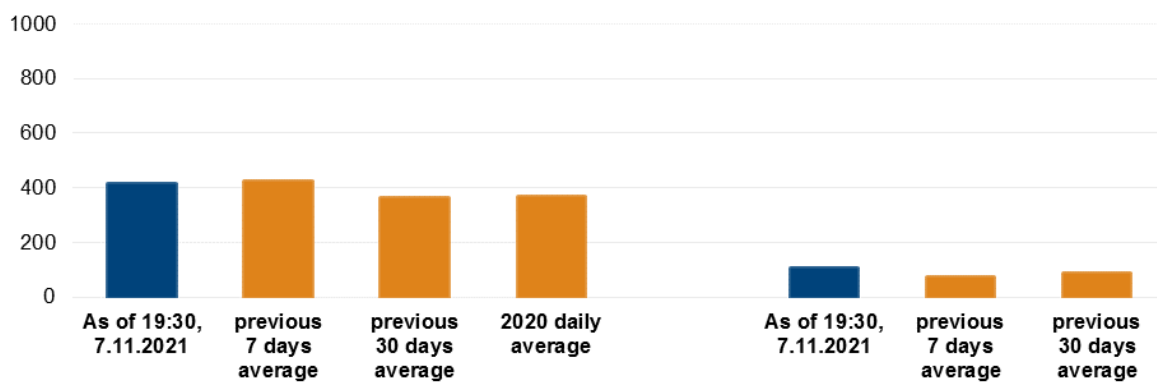
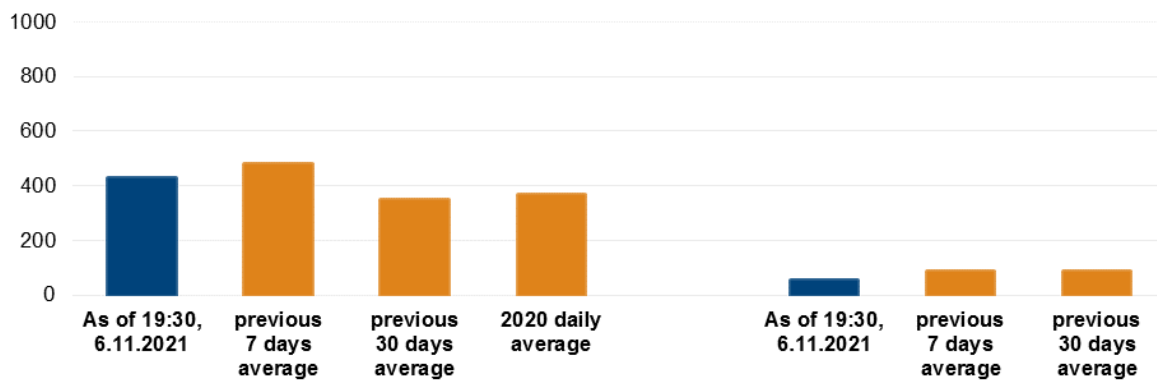
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<sup>1</sup> Based on information from the Monitoring Teams as of 19:30, 7 November 2021. All times are in Eastern European Time. During the reporting period, weather conditions limited the observational capabilities of some SMM cameras.

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

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

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



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

<sup>3</sup> Including explosions.

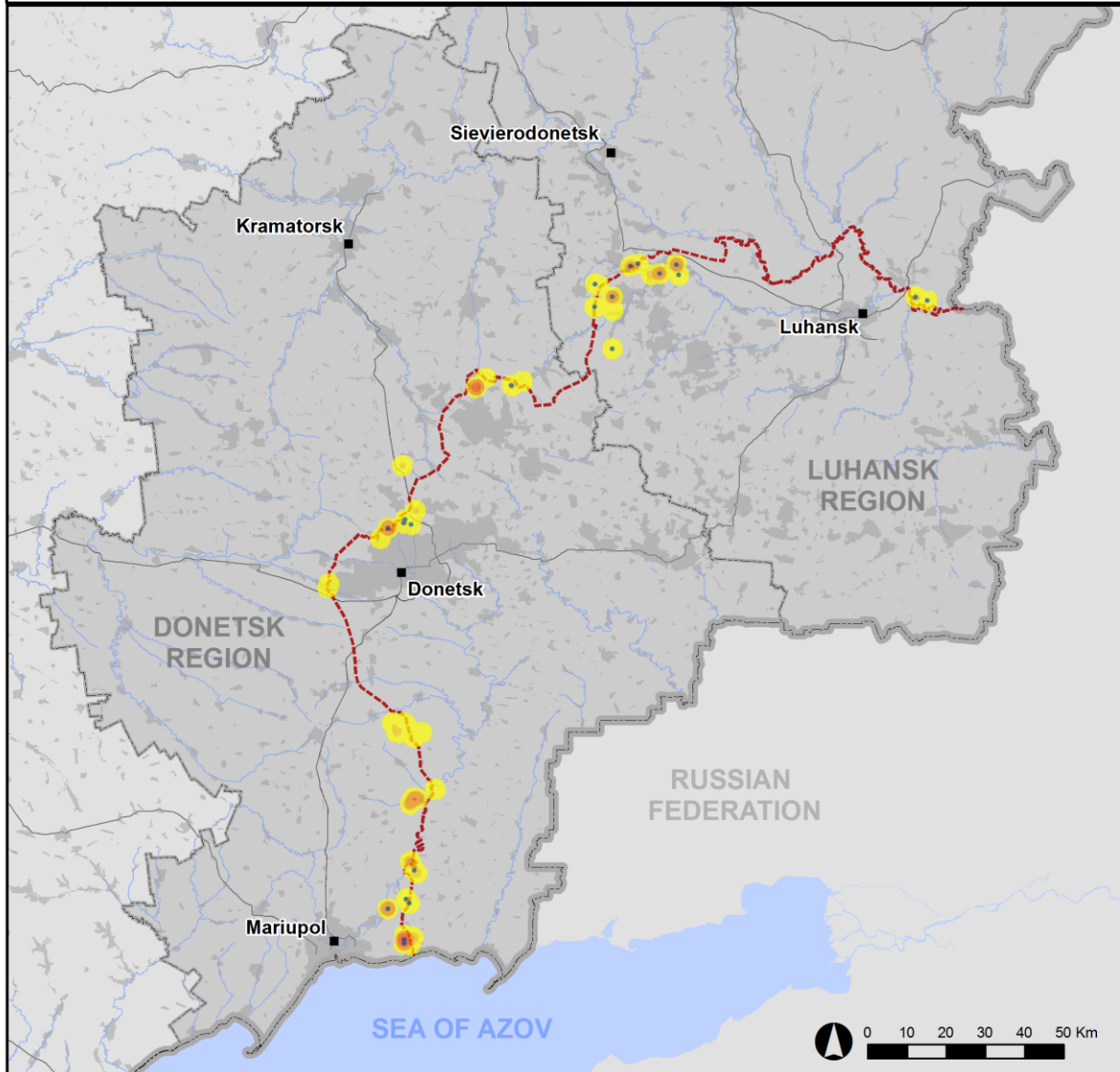
<sup>4</sup> Including from unidentified weapons.

## Map of recorded ceasefire violations

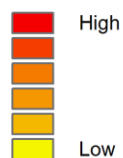


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### Ceasefire violations observed by the SMM 6-7 November 2021



#### 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: 08/11/2021

In Donetsk region, between the evenings of 5 and 7 November, the SMM recorded 661 ceasefire violations, including 87 explosions (37 airbursts, 15 outgoing, three impacts and 32 undetermined). The majority of ceasefire violations occurred in areas north of Shyrokyne (government-controlled, 100km south of Donetsk), west of Holmivskyi (non-government-controlled, 49km north-east of Donetsk) and north-north-east of Oktiabr mine (non-government-controlled, 9km north-west of Donetsk). Additionally, it also recorded 60 bursts of heavy-machine-gun and small-arms fire south and south-west of Hranitne (government-controlled, 60km south of Donetsk), assessed as a live-fire exercise in violation of the decision of the Trilateral Contact Group (TCG) of 3 March 2016 that prohibits the conduct of live-fire training in the security zone. In the [previous reporting period](#), the Mission recorded 482 ceasefire violations in the region.

In Luhansk region, between the evenings of 5 and 7 November, the SMM recorded 178 ceasefire violations, including 74 explosions (one airburst, one impact and 72 undetermined explosions). The majority of ceasefire violations occurred in areas east, north-east and south of the disengagement area near Zolote (government-controlled, 60km west of Luhansk) (see below), south-south-west of Sentianivka (formerly Frunze, non-government-controlled, 44km west of Luhansk) and south-west and south-east of Holubivske (non-government-controlled, 51km west of Luhansk). In the [previous reporting period](#), the Mission recorded 148 ceasefire violations in the region.

Following agreement reached at the meeting of the TCG 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 74,084 ceasefire violations in both Donetsk and Luhansk regions (including 19,915 explosions, 16,417 projectiles in flight, 357 muzzle flashes, 314 illumination flares and at least 37,081 bursts and shots).

#### **Non-SMM unmanned aerial vehicle and ceasefire violations close to the SMM patrol in Bolotene, Luhansk region**

On 6 November, while positioned on the western edge of Bolotene (government-controlled, 22km north-east of Luhansk), the Mission heard four bursts of small-arms fire at an assessed range of less than 50m south of its position. SMM patrol members immediately re-entered their vehicles. While driving away, the Mission observed soldiers of the Ukrainian Armed Forces firing into the air and saw a grey non-SMM mini-unmanned aerial vehicle (UAV) flying over their positions and then over the SMM patrol, despite the ban on the operation of any aerial vehicles included in the 22 July 2020 agreement on Measures to strengthen the ceasefire. Also while driving away, it heard and saw one impact explosion at an assessed range of 20-30m south-east of its position.

The SMM left the area and returned safely to its base (See [SMM Spot Report 25/2021](#)).\*

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

During the day on 7 November, while in Stanytsia Luhanska (government-controlled, 16km north-east of Luhansk), the SMM heard nine explosions at an assessed range of 5-7km south-

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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.

south-east, assessed as outside the **disengagement area near Stanytsia Luhanska** but within 5km of its periphery.

On 6 and 7 November, inside the disengagement area, the Mission saw 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).

During the night of 5-6 November, the SMM camera in Zolote recorded one explosion (airburst) at an assessed range of 3-5km east, assessed as outside the **disengagement area near Zolote** but within 5km of its periphery. During the night of 6-7 November, the same camera recorded 15 projectiles in flight at an assessed range of 3-5km east, assessed as outside the disengagement area but within 5km of its periphery.

On 6 and 7 November, near the checkpoint of the armed formations south of the disengagement area, the Mission saw members of the armed formations (wearing armbands with “JCCC” written on them). On both days, 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 evening of 5 November, the SMM camera 2km east of Bohdanivka (government-controlled, 41km south-west of Donetsk) recorded one projectile in flight at an assessed range of 1-2km east-south-east, assessed as inside the **disengagement area near Petrivske** (non-government-controlled, 41km south of Donetsk).<sup>\*</sup> During the day on 6 November, while positioned about 2km east of Bohdanivka, the Mission heard two shots of small-arms fire at an assessed range of 1-3km east and south-east, assessed as inside the disengagement area, and ten bursts and shots of small-arms fire at an assessed range of 2-3km south and south-south-west, assessed as outside the area but within 5km of its periphery. During the night of 6-7 November, the SMM camera 2km east of Bohdanivka recorded one projectile in flight and one illumination flare at an assessed range of 1-3km east-south-east, assessed as inside the area. During the day on 7 November, while positioned about 2km east of Bohdanivka, the Mission heard six shots of small-arms fire at an assessed range of 2km west, assessed as outside the area, but within 5km of its periphery.

On 7 November, while positioned in Petrivske, the Mission observed several objects assessed as ammunition boxes in the middle of road C-051532 leading west towards Viktorivka (non-government-controlled, 42km south-west of Donetsk), about 200m west of the Mission’s position and near the disengagement area’s north-eastern corner.<sup>\*</sup>

## 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.

In violation of withdrawal lines, the SMM spotted 13 multiple launch rocket systems and 32 howitzers, of which all but two howitzers were spotted in training areas in non-government-controlled areas of Donetsk and Luhansk regions.

Beyond withdrawal lines but outside designated storage sites, the SMM observed eight tanks, 55 howitzers and two anti-aircraft systems in government-controlled areas of Donetsk region,

including at a compound and a railway station, and of Luhansk region, including at an airfield. It also spotted 84 tanks, three mortars and six probable surface-to-air missile systems in two training areas in non-government-controlled areas of Donetsk and one training area in non-government-controlled area of Luhansk region (For further information, see the tables below.)

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

On 6 November, the Mission saw one armoured combat vehicle in a government-controlled area of Donetsk region. (For further information, see the table below.)

On the same day, while positioned on the western edge of Bolotene (government-controlled, 22km north-east of Luhansk), the Mission saw a grey non-SMM mini-UAV flying over positions of the Ukrainian Armed Forces and then over an SMM patrol. (See above and below.)

On 7 November, the SMM observed a non-SMM mini-UAV flying over a residential area of Hranitne (government-controlled, 60km south of Donetsk) at an approximate altitude of 150m, first from east to west and then from south-west to north-east.

The Mission observed the aforementioned non-SMM UAVs despite the ban on the operation of any aerial vehicles included in the 22 July 2020 agreement on Measures to strengthen the ceasefire.

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

On 6 and 7 November, the Mission continued to facilitate the operation of the Donetsk Filtration Station (DFS) (15km north of Donetsk). On 7 November, while positioned near Yasynuvata (non-government-controlled, 16km north-east of Donetsk), the SMM heard one burst and seven shots of small-arms fire, assessed as inside a 5km radius of the DFS.

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

On 6 November, in Donetsk region, the SMM observed that the entry-exit checkpoint (EECP) near Novotroitske (government-controlled, 36km south-west of Donetsk) was open.

On 7 November, in Donetsk region, the Mission saw that the EECP near Marinka (government-controlled, 23km south-west of Donetsk) was open and that the corresponding checkpoint of the armed formations near Kreminets (non-government-controlled, 16km south-west of Donetsk) was closed. On the same day, the SMM also observed that the corresponding checkpoint of the armed formations near Olenivka (non-government-controlled, 23km south-west of Donetsk) was closed.

On 6 November, in Luhansk region, the SMM observed that the EECP near Stanytsia Luhanska and the corresponding checkpoint of the armed formations south of the Stanytsia Luhanska bridge were open; it saw people queueing to travel towards non-government-controlled areas at the EECP and in both directions at the corresponding checkpoint. On 7 November, the Mission observed that the EECP and corresponding checkpoint were open, and saw people queueing to enter non-government-controlled areas at the corresponding checkpoint.

On 6 and 7 November, in Luhansk region, 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.

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

On 6 November, while at a border crossing point near Marynivka (78km east of Donetsk) for about an hour, the SMM observed nine cars, one covered cargo truck and two buses (with “DPR” plates, each carrying 25 people of mixed genders and ages) entering Ukraine and 22 cars (including ten with “DPR” plates), two covered cargo trucks (one with “DPR” plates), one bus (with “DPR” plates, carrying 20 people of mixed genders and ages) and 11 people (two women and two men, mixed ages, and seven children) exiting Ukraine.

On the same day, an armed member of the armed formations denied the SMM passage toward the border crossing point near Leonove (formerly Chervonyi Zhovten, non-government-controlled, 82km south of Luhansk) (see below).\*

Also on 6 November, the SMM also monitored areas close to the border with the Russian Federation near Shakhtarsk (50km east of Donetsk), and observed no change in the security situation.

#### **Security situation in east and south-east Kherson region**

From 4 to 6 November, the SMM monitored areas in east and south-east Kherson region at checkpoints near Chonhar (163km south-east of Kherson), and Kalanchak (67km south-east of Kherson), as well as the and Valok (193km south east of Kherson). It also visited areas along the coast of the Sea of Azov near Henichesk (176km east of Kherson), Stokopani (181km east of Kherson) and Strilkove (193km south-east of Kherson), as well as along the North Crimean canal. While monitoring these areas, the Mission observed no change in the security situation.

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

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

*The SMM’s monitoring and freedom of movement are restricted by security hazards and threats, including risks posed by mines, 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 below ). 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.*

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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.

Denial:

- On 6 November, near Diakove (non-government-controlled, 70km south-west of Luhansk), an armed member of the armed formations denied the SMM passage toward the border crossing point near Leonove (formerly Chervonyi Zhovten, non-government-controlled, 82km south of Luhansk), 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.

Delay:

- On 7 November, at a checkpoint about 2.5km north of Petrivske (non-government-controlled, 41km south of Donetsk), an armed member of the armed formations [again](#) allowed the SMM passage south towards the disengagement area near Petrivske only after 46 minutes of waiting, citing “the SMM’s safety”.

Other impediments:<sup>7</sup>

- On 6 November, while positioned on the western edge of Bolotene (government-controlled, 22km north-east of Luhansk), the Mission heard four bursts of small-arms fire and heard and saw one impact explosion close to its position. (See above.)
- On the same day, an SMM mini-UAV experienced GPS signal interference, assessed as caused by probable jamming, during two flights while flying over areas near Krasnohorivka (government-controlled, 24km north of Donetsk).
- Also on the same day, an SMM mid-range UAV flight was cancelled due to GPS signal interference, assessed as caused by probable jamming, near Krasnohorivka.
- On 7 November, SMM mini-UAVs experienced GPS signal interference, assessed as caused by probable jamming, during five flights: three times while flying over area near Sentianivka (formerly Frunze, non-government-controlled, 44km west of Luhansk) and once each near Fedorivka (government-controlled, 87km north of Donetsk) and near Talakivka (government-controlled, 90km south of Donetsk).
- On the same day, an SMM mid-range UAV experienced GPS signal interference, assessed as caused by probable jamming, during a flight over areas near Fedorivka.
- Also on 7 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 Poltavka (government-controlled, 54km north-west of Donetsk) and Ivanivka (government-controlled, 39km north-west of Donetsk), between Novoianysol (government-controlled, 88km south-west of Donetsk) and Stepanivka (government-controlled, 71km south of Donetsk), between Hranitne (government-controlled, 60km south of Donetsk) and Petrivske (non-government-controlled, 41km south of Donetsk). The same UAV experienced GPS signal interference, assessed as caused by jamming, while flying over areas between

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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.



Staroraiske (government-controlled, 72km north of Donetsk) and Poltavka (government-controlled, 54km north-west of Donetsk), between Ivanivka and Novoianysol (government-controlled, 88km south-west of Donetsk) and between Petrivske and Pryvillia (government-controlled, 85km north of Donetsk).

## Table of weapons

### Weapons in violation of withdrawal lines

Date	No. of weapons	Type of weapon	Location	Source of observation
<b>Non-government-controlled areas</b>				
5/11/2021	13	Multiple launch rocket systems (11 BM-21 <i>Grad</i> , 122mm, and two BM-21- <i>Grad-K</i> , 122mm)	In a training area near Ternove (57km east of Donetsk)	Mini-UAV
	4	Self-propelled howitzer (2S1 <i>Gvozhdika</i> , 122mm)		
	2	Probable self-propelled howitzer (2S1 <i>Gvozhdika</i> , 122mm)	Near Bile (22km west of Luhansk)	Long-range UAV
	14	Self-propelled howitzer (2S1 <i>Gvozhdika</i> , 122mm)	In a training area near Buhaivka (37km south-west of Luhansk), where 38 armoured combat vehicles were also spotted <sup>8</sup>	
	12	Towed howitzer (D-30A <i>Lyagushka</i> , 122mm),		

### Weapons beyond withdrawal lines but outside designated storage sites

Date	No. of weapons	Type of weapon	Location	Source of observation
<b>Government-controlled areas</b>				
5/11/2021	8	Tank (one T-64 and seven type undetermined)	In a compound near a residential area of Spirne (96km north of Donetsk)	Long-range UAV
	2	Self-propelled anti-aircraft system (2K22/2S6M <i>Tunguska</i> )	At an airfield near Voronove (66km north-west of Luhansk)	
6/11/2021	15	Self-propelled howitzer (2S1 <i>Gvozhdika</i> , 122mm)	At a railway station in Druzhkivka (72km north of Donetsk)	Patrol
	9	Towed howitzer (D-30 <i>Lyagushka</i> , 122mm)		
7/11/2021	16	Self-propelled howitzer (2S1 <i>Gvozhdika</i> , 122mm)		
	15	Towed howitzer (D-30 <i>Lyagushka</i> , 122mm)		
<b>Non-government-controlled areas</b>				
5/11/2021	52	Tank (37 T-72, two T-64, and 13 type undetermined)	In a training area near Ternove (57km east of Donetsk)	Mini-UAV
	3	Mortar (types undetermined, two 82mm and one 120mm)		
	10	Tanks (type undetermined)	In a training area near Shymshynivka (27km south-west of Luhansk), where 30 armoured combat vehicles were also spotted <sup>9</sup>	
	22		In a training area near Buhaivka (37km south-west of Luhansk)	
	6	Probable surface-to-air missile system (9K35 <i>Strela-10</i> )		

### **Table of military and military-type presence in the security zone<sup>10</sup>**

Date	No.	Type	Location	Source of observation
<b>Government-controlled areas</b>				
6/11/2021	1	Armoured personnel carrier (BTR-70)	Near Novobakhmutivka (28km north of Donetsk)	Patrol

<sup>8</sup> The armoured combat vehicles in this table are not proscribed by the provisions of the Minsk agreements on the withdrawal of weapons.

<sup>9</sup> The armoured combat vehicles in this table are not proscribed by the provisions of the Minsk agreements on the withdrawal of weapons.

<sup>10</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 7 November 2021<sup>11</sup>**

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera 2km E of Bohdanivka (government-controlled, 41km SW of Donetsk)	1-2km ESE	Recorded	1	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske) (also recorded by the SMM camera in Petrivske)	N/K	5-Nov, 22:42
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	3-5km SE	Recorded	10	Projectile	SW to NE	N/K	5-Nov, 20:11
	2-4km SE	Recorded	1	Explosion	Undetermined	N/K	5-Nov, 20:11
	2-4km SE	Recorded	2	Projectile	In vertical flight	N/K	5-Nov, 20:11
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	4-6km S	Recorded	1	Explosion	Undetermined (also recorded by the SMM camera in Avdiivka)	N/K	5-Nov, 22:36
	4-6km SSW	Recorded	1	Explosion	Undetermined (also recorded by the SMM camera in Avdiivka)	N/K	5-Nov, 22:53
	4-6km SSW	Recorded	1	Explosion	Undetermined	N/K	5-Nov, 22:56
	4-6km SSW	Recorded	1	Explosion	Undetermined (also recorded by the SMM camera at the Avdiivka)	N/K	5-Nov, 23:14
	4-6km SSW	Recorded	1	Explosion	Undetermined (also recorded by the SMM camera at the Avdiivka)	N/K	5-Nov, 23:34
	3-5km SSW	Recorded	1	Explosion	Undetermined	N/K	5-Nov, 23:34
	3-5km SSW	Recorded	1	Explosion	Undetermined	N/K	5-Nov, 23:35
	4-6km S	Recorded	1	Explosion	Undetermined (also recorded by the SMM camera at the Avdiivka)	N/K	6-Nov, 00:20
	4-6km SSW	Recorded	1	Explosion	Undetermined	N/K	6-Nov, 00:20
	4-6km S	Recorded	1	Explosion	Undetermined (also recorded by the SMM camera at the Avdiivka)	N/K	6-Nov, 00:24
SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk)	3-5km ESE	Recorded	1	Explosion	Undetermined (also recorded by the SMM	N/K	6-Nov, 02:02

<sup>11</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
					camera near Shyrokyne)		
	3-5km ESE	Recorded	1	Muzzle flash		N/K	6-Nov, 02:07
	3-5km ESE	Recorded	1	Projectile	SSW to NNE (subsequent to previous event)	N/K	6-Nov, 02:07
	3-5km ESE	Recorded	1	Explosion	Airburst (subsequent to previous event, also recorded by the SMM camera near Shyrokyne)	N/K	6-Nov, 02:07
SMM camera at Oktiabr mine (non-government-controlled, 9km NW of Donetsk city centre)	0.5-1km W	Recorded	2	Muzzle flash		N/K	5-Nov, 22:45
SMM camera 1km SW of Shyrokyne (government-controlled, 100km S of Donetsk)	4-6km NNE	Recorded	2	Projectile	SE to NW	N/K	5-Nov, 19:19
	4-6km N	Recorded	1	Projectile	W to E	N/K	5-Nov, 19:19
	4-6km N	Recorded	3	Projectile	W to E	N/K	5-Nov, 19:24
	4-6km N	Recorded	2	Burst	E to W	N/K	5-Nov, 19:25
	4-6km N	Recorded	6	Projectile	W to E	N/K	5-Nov, 19:25
	4-6km N	Recorded	19	Projectile	E to W	N/K	5-Nov, 19:26
	4-6km N	Recorded	21	Projectile	E to W	N/K	5-Nov, 19:27
	4-6km N	Recorded	1	Projectile	E to W	N/K	5-Nov, 19:27
	4-6km N	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	5-Nov, 19:27
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	5-Nov, 19:28
	4-6km N	Recorded	10	Projectile	E to W	N/K	5-Nov, 19:28
	4-6km N	Recorded	2	Burst	In vertical flight	N/K	5-Nov, 21:08
	4-6km N	Recorded	6	Explosion	Undetermined	N/K	5-Nov, 21:48
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	5-Nov, 21:50
	3-5km NNE	Recorded	1	Illumination flare	In vertical flight	N/K	5-Nov, 21:53
	4-6km N	Recorded	12	Projectile	SE to NW	N/K	5-Nov, 22:32
	4-6km N	Recorded	4	Projectile	SW to NE	N/K	5-Nov, 22:33
	4-6km N	Recorded	3	Projectile	SE to NW	N/K	5-Nov, 22:33
	3-5km N	Recorded	1	Projectile	WSW to ENE	N/K	6-Nov, 03:07
	3-5km N	Recorded	1	Projectile	SSW to NNE	N/K	6-Nov, 03:07
	3-5km N	Recorded	3	Projectile	WSW to ENE	N/K	6-Nov, 03:09
	3-5km N	Recorded	1	Muzzle flash		N/K	6-Nov, 03:10
	3-5km N	Recorded	1	Projectile	E to W (subsequent to previous event)	N/K	6-Nov, 03:10
	3-5km N	Recorded	1	Explosion	Airburst (subsequent to previous event)	N/K	6-Nov, 03:10
	3-5km N	Recorded	1	Projectile	E to W	N/K	6-Nov, 03:11
	3-5km N	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	6-Nov, 03:11
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	6-Nov, 03:14
	3-5km N	Recorded	6	Projectile	WSW to ENE	N/K	6-Nov, 03:14
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	6-Nov, 03:15
	3-5km N	Recorded	1	Projectile	WSW to ENE	N/K	6-Nov, 03:15
	4-6km N	Recorded	16	Projectile	WSW to ENE	N/K	6-Nov, 03:59
About 700m W of Holmivskiyi (non-government-controlled, 49km NE of Donetsk)	2-5km W	Heard	6	Shot		Small arms	6-Nov, 10:22
	2-5km W	Heard	5	Shot		Small arms	6-Nov, 10:28

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	2-5km W	Heard	15	Shot		Small arms	6-Nov, 10:35-11:00
	2-5km W	Heard	80	Burst		HMG	6-Nov, 10:35-11:00
About 1km E of Holmivskyi (non-government-controlled, 49km NE of Donetsk)	2-5km NW	Heard	3	Shot		Small arms	6-Nov, 10:05
	2-5km NW	Heard	1	Burst		Small arms	6-Nov, 10:05
About 2.5km ENE of Krasnohorivka (government-controlled, 24km N of Donetsk)	1-2km NE	Heard	2	Shot		Small arms	6-Nov, 10:55
	1-2km NE	Heard	6	Shot		Small arms	6-Nov, 11:00
About 1.5km SW of Hranitne (government-controlled, 60km S of Donetsk)	2-3km W	Heard	25	Burst		HMG	6-Nov, 10:45-11:00
	2-3km SSE	Heard	15	Burst		HMG	6-Nov, 11:35-11:45
	2-3km SSE	Heard	20	Burst		Small arms	6-Nov, 11:35-11:45
About 2km E of Bohdanivka (government-controlled, 41km SW of Donetsk)	2-3km SSW	Heard	9	Shot	Assessed as outside the disengagement area near Petrivske	Small arms	6-Nov, 11:20-11:37
	2-3km S	Heard	1	Burst	Assessed as outside the disengagement area near Petrivske	Small arms	6-Nov, 11:20-11:37
	1km E	Heard	1	Shot	assessed as inside the disengagement area near Petrivske	Small arms	6-Nov, 11:20-11:37
	2-3km SE	Heard	1	Shot	Assessed as inside the disengagement area near Petrivske	Small arms	6-Nov, 11:20-11:37
SMM camera on N edge of Popasna (government-controlled, 69km W of Luhansk)	3-5km ESE	Recorded	1	Explosion	Undetermined	N/K	5-Nov, 19:31
	3-5km ESE	Recorded	1	Explosion	Undetermined	N/K	5-Nov, 19:38
	3-5km ESE	Recorded	1	Explosion	Undetermined	N/K	5-Nov, 19:44
SMM camera in Zolote (government-controlled, 60km W of Luhansk)	3-5km E	Recorded	1	Projectile	NNE to SSW (assessed as outside the disengagement area near Zolote)	N/K	6-Nov, 02:08
	3-5km E	Recorded	1	Explosion	Airburst (assessed as outside the disengagement area near Zolote; subsequent to previous event)	N/K	6-Nov, 02:08
In Kadiivka (non-government controlled, 50km W of Luhansk)	12-14km WNW	Heard	20	Burst	Assessed as outside of the disengagement area near Zolote)	N/K	5-Nov, 18:25-18:32
	12-14km WNW	Heard	5	Explosion	Undetermined (assessed as outside of the	N/K	5-Nov, 18:25-18:32

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
					disengagement near Zolote)		
	9-13km N	Heard	18	Burst		N/K	5-Nov, 18:49-19:18
	12-14km WNW	Heard	7	Explosion	Undetermined (assessed as outside of the disengagement area near Zolote)	N/K	5-Nov, 18:49-19:18
	13-16km NNW	Heard	1	Explosion	Undetermined (assessed as outside of the disengagement area near Zolote)	N/K	5-Nov, 18:49-19:18
	9-13km N	Heard	10	Burst		N/K	5-Nov, 19:18-19:55
	9-13km N	Heard	5	Explosion	Undetermined	N/K	5-Nov, 19:18-19:55
	13-16km NNW	Heard	4	Explosion	Undetermined (assessed as outside of the disengagement area near Zolote)	N/K	5-Nov, 19:18-19:55
	12-14km WNW	Heard	1	Explosion	Undetermined (assessed as outside of the disengagement area near Zolote)	N/K	5-Nov, 19:18-19:55
Bolotene (government-controlled, 22km NE of Luhansk)	20-30m SE	Heard	1	Explosion	Impact	N/K	6-Nov, 14:16
	10-50m S	Heard	4	Burst		Small arms	6-Nov, 14:15-14:16
SMM camera 2km E of Bohdanivka (government-controlled, 41km SW of Donetsk)	1-3km ESE	Recorded	1	Muzzle flash	Assessed as inside the disengagement area near Petrivske	N/K	6-Nov, 23:24
	1-3km ESE	Recorded	1	Projectile	S to N (subsequent to previous event) (assessed as inside the disengagement area near Petrivske)	N/K	6-Nov, 23:24
	1-3km ESE	Recorded	1	Illumination flare	In vertical flight (assessed as inside the disengagement area near Petrivske)	N/K	7-Nov, 00:06
	5-7km ESE	Recorded	1	Projectile	NE to SW	N/K	7-Nov, 17:45
	4-6km SE	Recorded	3	Projectile	SW to NE	N/K	7-Nov, 18:29
	4-6km SE	Recorded	1	Projectile	SW to NE	N/K	7-Nov, 18:30
	1-3km NNE	Recorded	1	Projectile	SSE to NNW	N/K	6-Nov, 23:06
SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)	2-4km NNE	Recorded	1	Projectile	ESE to WNW	N/K	6-Nov, 23:15
	2-4km NNE	Recorded	1	Projectile	ESE to WNW	N/K	6-Nov, 23:28
	2-4km NNE	Recorded	1	Projectile	ESE to WNW	N/K	6-Nov, 23:28
SMM camera at Oktiabr mine (non-government-controlled, 9km NW of Donetsk city centre)	2-4km NNE	Recorded	12	Burst	In vertical flight	N/K	7-Nov, 17:50
	2-4km NNE	Recorded	17	Explosion	Airburst	N/K	7-Nov, 17:50

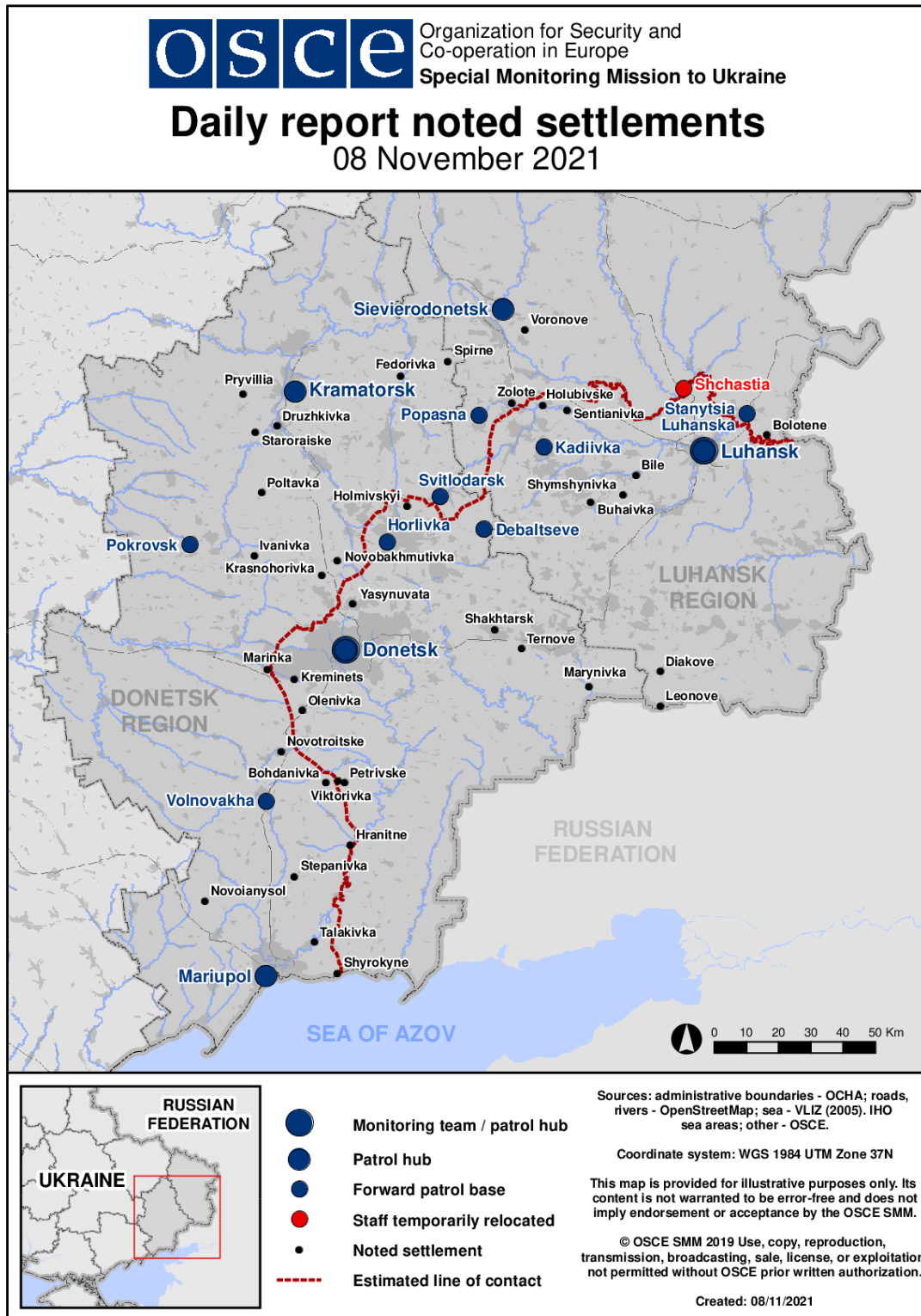


SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	2-4km NNE	Recorded	6	Projectile	In vertical flight	N/K	7-Nov, 17:50
	2-4km NNE	Recorded	1	Projectile	In vertical flight	N/K	7-Nov, 17:51
	2-4km NNE	Recorded	9	Explosion	Airburst	N/K	7-Nov, 17:51
	2-4km NNE	Recorded	10	Projectile	In vertical flight	N/K	7-Nov, 17:54
	2-4km NNE	Recorded	13	Projectile	In vertical flight	N/K	7-Nov, 17:55
SMM camera 1km SW of Shyrokyne (government-controlled, 100km S of Donetsk)	4-6km N	Recorded	1	Muzzle flash		N/K	7-Nov, 00:27
	4-6km N	Recorded	1	Projectile	E to W (subsequent to previous event)	N/K	7-Nov, 00:27
	4-6km N	Recorded	1	Explosion	Airburst (subsequent to previous event)	N/K	7-Nov, 00:27
	4-6km N	Recorded	4	Projectile	E to W	N/K	7-Nov, 00:27
	5-7km NNE	Recorded	1	Projectile	W to E	N/K	7-Nov, 01:16
	5-7km NNE	Recorded	4	Projectile	E to W	N/K	7-Nov, 01:16
	5-7km NNE	Recorded	8	Projectile	E to W	N/K	7-Nov, 01:17
	4-6km N	Recorded	2	Projectile	E to W	N/K	7-Nov, 01:28
	4-6km N	Recorded	1	Projectile	E to W	N/K	7-Nov, 01:29
	4-6km N	Recorded	1	Projectile	E to W	N/K	7-Nov, 01:41
	4-6km N	Recorded	7	Projectile	W to E	N/K	7-Nov, 02:24
	4-6km N	Recorded	14	Projectile	W to E	N/K	7-Nov, 02:57
	5-7km N	Recorded	1	Projectile	W to E	N/K	7-Nov, 03:25
	4-6km N	Recorded	11	Projectile	W to E	N/K	7-Nov, 03:54
	4-6km N	Recorded	1	Muzzle flash		N/K	7-Nov, 04:17
	4-6km N	Recorded	1	Projectile	E to W (subsequent to previous event)	N/K	7-Nov, 04:17
	4-6km N	Recorded	1	Explosion	Impact (Subsequent to previous event)	N/K	7-Nov, 04:17
	4-6km N	Recorded	6	Projectile	W to E	N/K	7-Nov, 05:01
	3-5km N	Recorded	1	Burst	SE to NW	N/K	7-Nov, 17:37
	3-5km N	Recorded	4	Projectile	SE to NW	N/K	7-Nov, 17:46
	3-5km N	Recorded	2	Projectile	In vertical flight	N/K	7-Nov, 17:48
	3-5km N	Recorded	6	Projectile	E to W	N/K	7-Nov, 17:48
	3-5km N	Recorded	1	Projectile	In vertical flight	N/K	7-Nov, 17:57
	3-5km N	Recorded	1	Illumination flare	In vertical flight	N/K	7-Nov, 17:57
	3-5km N	Recorded	6	Projectile	W to E	N/K	7-Nov, 18:09
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	7-Nov, 18:09
	3-5km N	Recorded	2	Projectile	SE to NW	N/K	7-Nov, 18:17
	3-5km N	Recorded	10	Projectile	E to W	N/K	7-Nov, 18:18
SMM camera in Svitlodarsk (government-controlled, 57km NE of Donetsk)	2-4km WSW	Recorded	3	Projectile	NNE to SSW	N/K	7-Nov, 03:17
	2-4km WSW	Recorded	1	Projectile	ENE to WSW	N/K	7-Nov, 03:17
	2-4km WSW	Recorded	1	Muzzle flash		N/K	7-Nov, 03:17
	2-4km WSW	Recorded	1	Projectile	ENE to WSW (subsequent to previous event)	N/K	7-Nov, 03:17
	5-7km WSW	Recorded	1	Projectile	In vertical flight	N/K	7-Nov, 17:51
	5-7km WSW	Recorded	1	Explosion	Airburst (subsequent to previous event)	N/K	7-Nov, 17:51
	5-7km WSW	Recorded	7	Explosion	Airburst	N/K	7-Nov, 17:51

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
About 900m E of Talakivka (government-controlled, 90km S of Donetsk)	2-3km NNE	Heard	15	Explosion	Outgoing	Mortar (type N/K)	7-Nov, 10:15-10:27
	2-3km NNE	Heard	6	Burst		HMG	7-Nov, 10:15-10:27
	2-3km NNE	Heard	7	Burst		Small arms	7-Nov, 10:15-10:27
	2-3km NNE	Heard	1	Explosion	Undetermined	N/K	7-Nov, 10:29-10:45
	2-3km NNE	Heard	19	Burst		HMG	7-Nov, 10:29-10:45
	2-3km NNE	Heard	7	Shot		Small arms	7-Nov, 10:56
Pavlopil (government-controlled, 84km S of Donetsk)	3-6km SSE	Heard	6	Explosion	Undetermined	N/K	7-Nov, 11:30-11:33
About 1.5km NNW of Chermalyk (government-controlled, 77km S of Donetsk)	2-2.5km SE	Heard	18	Shot		Small arms	7-Nov, 13:21
About 2.5km S of Novohryhorivka (government-controlled, 55km S of Donetsk)	2-2.5km S	Heard	21	Shot		Small arms	7-Nov, 11:15-11:25
	2-2.5km S	Heard	8	Burst		Small arms	7-Nov, 11:15-11:25
	5-6km E	Heard	5	Shot		Small arms	7-Nov, 11:15-11:25
About 2km E of Bohdanivka (government-controlled, 41km SW of Donetsk)	2km W	Heard	6	Shot	Assessed as outside the disengagement area near Petrivske	Small arms	7-Nov, 11:28-11:31
About 700m WSW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	1km W	Heard	7	Shot		Small arms	7-Nov, 11:00-11:08
	1km W	Heard	1	Burst		Small arms	7-Nov, 11:00-11:08
SMM camera on N edge of Popasna (government-controlled, 69km W of Luhansk)	4-6km ESE	Recorded	1	Illumination flare	In vertical flight	N/K	7-Nov, 16:46
	4-6km ESE	Recorded	1	Illumination flare	In vertical flight	N/K	7-Nov, 16:48
	4-6km ESE	Recorded	1	Illumination flare	In vertical flight	N/K	7-Nov, 16:52
SMM camera in Zolote (government-controlled, 60km W of Luhansk)	3-5km E	Recorded	1	Projectile	S to N	N/K	7-Nov, 02:25
	3-5km E	Recorded	1	Muzzle flash		N/K	7-Nov, 02:26
	3-5km E	Recorded	1	Projectile	S to N (subsequent to previous event) (assessed as outside the disengagement area)	N/K	7-Nov, 02:26
	3-5km E	Recorded	1	Muzzle flash		N/K	7-Nov, 02:26
	3-5km E	Recorded	1	Projectile	SW to NE (subsequent to previous event) (assessed as outside the disengagement area)	N/K	7-Nov, 02:26
	3-5km E	Recorded	1	Projectile	S to N (assessed as outside the disengagement area)	N/K	7-Nov, 02:26
	3-5km E	Recorded	4	Projectile	SW to NE (assessed as	N/K	7-Nov, 02:28

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
					outside the disengagement area)		
	3-5km E	Recorded	7	Projectile	S to N (assessed as outside the disengagement area)	N/K	7-Nov, 02:45
	3-5km E	Recorded	1	Projectile	S to N (assessed as outside the disengagement area)	N/K	7-Nov, 02:46
1km NE of Kalynove (non-government-controlled, 60km west of Luhansk)	2-4km NW	Heard	2	Burst		HMG	7-Nov, 09:16
About 3km SSE of Holubivske (non-government-controlled, 51km west of Luhansk)	2-3km W	Heard	2	Burst		Small arms	7-Nov, 09:48-09:58
	2-3km W	Heard	1	Shot		Small arms	7-Nov, 09:48-09:58
	4-5km E	Heard	6	Explosion	Undetermined	N/K	7-Nov, 10:00
	2-3km W	Heard	8	Shot		Small arms	7-Nov, 10:12-10:16
1km NNE of Sentianivka (formerly Frunze, non-government-controlled, 44km west of Luhansk)	3-5km WNW	Heard	16	Explosion	Undetermined	Artillery (type N/K)	7-Nov, 09:51-09:55
	3-5km WNW	Heard	6	Explosion	Undetermined	Artillery (type N/K)	7-Nov, 09:51-09:55
	3-5km WNW	Heard		Burst	Uncountable	HMG	7-Nov, 09:51-09:55
2km SE of Popasna (government controlled, 69km W of Luhansk)	3-5km SE	Heard	3	Explosion	Undetermined	N/K	7-Nov, 13:20-13:35
200m N Yuzhna-Lomuvatka (non-government-controlled, 60km west of Luhansk)	6-8km NNW	Heard	6	Explosion	Undetermined	N/K	7-Nov, 13:25-13:33
Stanytsia Luhanska (government controlled, 16km NE of Luhansk)	5-7km SSE	Heard	8	Explosion	Undetermined (outside the disengagement area)	Other	7-Nov, 17:08-17:12
	5-7km SSE	Heard	1	Explosion	Undetermined (outside the disengagement area)	Other	7-Nov, 17:40

## Map of Donetsk and Luhansk regions<sup>12</sup>



<sup>12</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).