

# Daily Report 273/2021

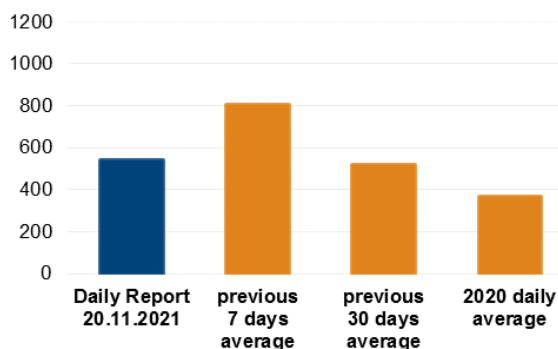
20 November 2021<sup>1</sup>

## Summary

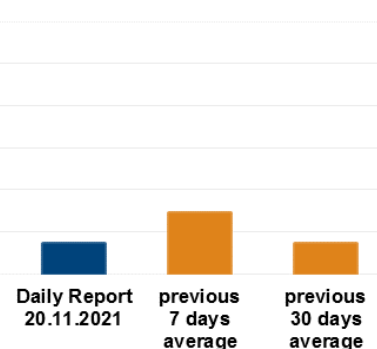
- In Donetsk region, the Mission recorded 421 ceasefire violations, including 95 explosions. In the previous reporting period, it recorded 715 ceasefire violations in the region.
- In Luhansk region, the SMM recorded 121 ceasefire violations, including 51 explosions, 37 of which were assessed as a live-fire exercise outside the security zone. In the previous reporting period, it recorded 245 ceasefire violations in the region.
- Members of the armed formations denied the Mission access to Staromykhailivka and threatened to shoot down an SMM mini-unmanned aerial vehicle (UAV).\*
- 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 four corresponding checkpoints of the armed formations in Donetsk and Luhansk regions.
- The SMM's freedom of movement continued to be restricted, including at checkpoints of the armed formations near Petrivske, Staromykhailivka, Ozerianivka, Donetsk region, and near Stanytsia Luhanska bridge and Zolote, Luhansk 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, 19 November 2021. 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 at the entry-exit checkpoint near Maiorsk was not operational, and weather conditions limited the observation capabilities of some other SMM cameras.

<sup>3</sup> Including explosions.

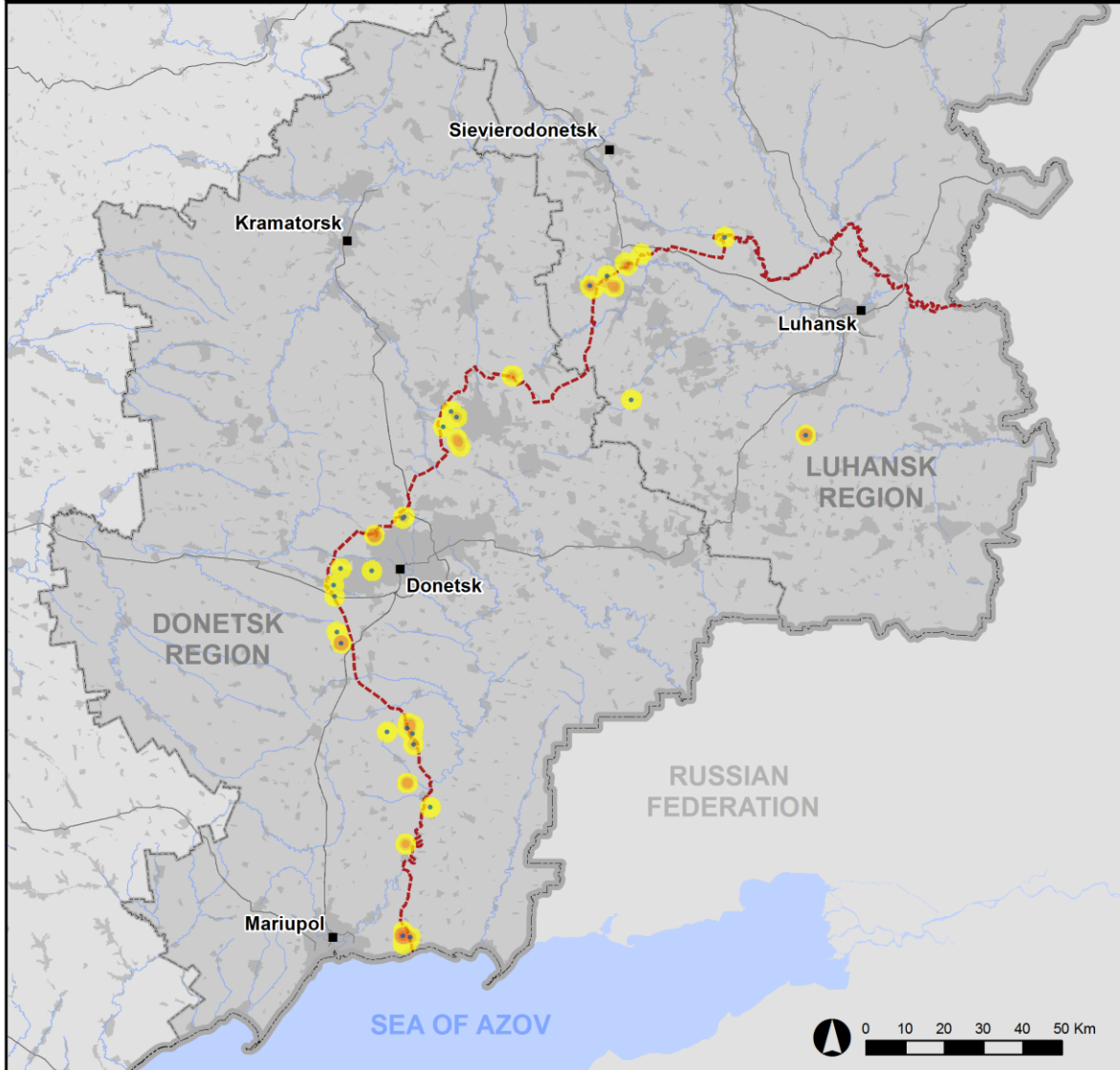
<sup>4</sup> Including from unidentified weapons.

### Map of recorded ceasefire violations

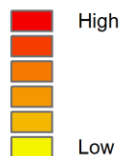


Organization for Security and  
Co-operation in Europe  
Special Monitoring Mission to Ukraine

## Ceasefire violations observed by the SMM 19 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: 20/11/2021

In Donetsk region, the SMM recorded 421 ceasefire violations, including 95 explosions (two impacts, three airbursts and 90 undetermined). The majority of ceasefire violations occurred in areas north of Shyrokyne (government-controlled, 100km south of Donetsk), north-north-west of Berezove (government-controlled, 31km south-west of Donetsk) and at south-westerly and north-westerly directions of Horlivka (non-government-controlled, 39km north-east of Donetsk). In the [previous reporting period](#), the Mission recorded 715 ceasefire violations in the region, some of which also occurred in areas north of Shyrokyne.

In Luhansk region, the SMM recorded 121 ceasefire violations, including 51 explosions (three impacts, one airburst and 47 undetermined). The majority of ceasefire violations occurred in areas north-west of Rebrykove (non-government-controlled, 39km south of Luhansk), and near the disengagement area near Zolote (government-controlled, 60km west of Luhansk) (see below). Additionally, the Mission also heard 37 undetermined explosions south-east of Kruhlyk (non-government-controlled, 31km south-west of Luhansk), which it assessed as a live-fire training exercise outside the security zone. In the [previous reporting period](#), the Mission recorded 245 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 82,586 ceasefire violations in both Donetsk and Luhansk regions (including 22,730 explosions, 19,516 projectiles in flight, 393 muzzle flashes, 350 illumination flares and at least 39,597 bursts and shots).

### **Members of the armed formations denied the SMM access to Staromykhailivka and threatened to shoot down an SMM mini-UAV**

On 19 November at 09:45, at a checkpoint in Staromykhailivka (non-government-controlled, 15km west of Donetsk), two visibly armed members of the armed formations denied the SMM passage into the settlement, referring to a need to obtain approval from their superiors. The patrol's task was to follow up on allegations of damaged civilian property in the settlement.

After waiting for about 50 minutes at the checkpoint, the patrol informed the members of the armed formations of their intention to fly their unmanned aerial vehicle (UAV) over the settlement to follow up on the alleged damage. After consulting with superiors on the phone, the members of the armed formations threatened to shoot down the SMM's UAV if it was launched. The Mission did not launch the UAV and left the area. (See below and [SMM Spot Report 26/2021 of 19 November 2021](#).)\*

### **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 five 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).

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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.

Near the checkpoint of the armed formations south of the **disengagement area near Zolote** (government-controlled, 60km west of Luhansk), the Mission saw four 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 cameras in Popasna (government-controlled, 69km west of Luhansk) and in Zolote recorded six undetermined explosions and 15 projectiles in flight. During the same period, SMM patrols heard three explosions (all impacts) and 51 bursts and shots of small-arms and heavy-machine-gun fire. All these ceasefire violations were assessed as outside the disengagement area but within 5km of its periphery.

During the reporting period, the SMM camera 2km east of Bohdanivka (government-controlled, 41km south-west of Donetsk) recorded 23 projectiles in flight, assessed as inside the **disengagement area near Petrivske** (non-government-controlled, 41km south of Donetsk); one undetermined explosion and ten projectiles in flight, unable to be assessed as either inside or outside the area; and one undetermined explosion and two projectiles in flight, assessed as outside the area but within 5km of its periphery.

During the day on 18 November, inside the disengagement area, an SMM long-range UAV spotted a person inside a former position of the Ukrainian Armed Forces about 530m east-north-east of the area’s south-western corner and two people inside former positions of the armed formations about 360m north-north-west and 130m west-north-west, respectively, 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.

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

The SMM observed nine armoured combat vehicles (of which four probable) in government-controlled areas of Donetsk and Luhansk regions, including in two residential areas, and one armoured combat vehicle in a non-government-controlled area of Luhansk region. (For further information, see the table below.)

On 18 November, on the north-eastern edge of Hranitne (government-controlled, 60km south of Donetsk), an SMM mid-range UAV spotted a [previously reported](#) pontoon bridge across the river Kalmius. The Mission noted that the wooden deck was broken in the middle, with a gap of about 3m separating its two parts.

On the same day, about 200m south-south-west of the aforementioned pontoon bridge, also on the north-eastern edge of Hranitne, the same UAV spotted concrete plates placed under water across the width of the river Kalmius, assessed as a probable vehicle crossing (not previously reported and not observed in imagery from 5 December 2020).

### **Presence of anti-tank mines near government-controlled Travneve and non-government-controlled Lohvynove, Donetsk region**

On 17 November, about 3km north-west of Lohvynove (non-government-controlled, 59km north-east of Donetsk), an SMM mini-UAV spotted seven previously reported anti-tank mines laid across road E-40, assessed as belonging to the armed formations. (For previous observations in the area, see [SMM Daily Report of 7 September 2021](#).)

On 18 November, on the south-western edge of Travneve (government-controlled, 51km north-east of Donetsk), an SMM long-range UAV spotted 14 previously reported anti-tank mines laid across a local road leading south towards Holmivskyi (non-government-controlled, 49km north-east of Donetsk), assessed as belonging to the Ukrainian Armed Forces. (For previous observations in the area, see [SMM Daily Report of 10 September 2021](#).)

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

The Mission continued to facilitate the operation of the Donetsk Filtration Station (15km north of Donetsk) (DFS). While positioned on the western edge of Yasynuvata (non-government-controlled, 16km north-east of Donetsk), the SMM heard 14 undetermined explosions, assessed as within a 5km radius of the DFS.

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

In Donetsk region, the Mission observed that the entry-exit checkpoint (EECP) near Maiorsk (government-controlled, 45km north-east of Donetsk) was closed. It also saw that the EECP near Novotroitske (government-controlled, 36km south-west of Donetsk) and the corresponding checkpoint of the armed formations near Olenivka (non-government-controlled, 23km south-west of Donetsk) were open, with people queuing to travel in both directions.

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, 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.

Between the EECP near Zolote and the intersection of road T-1316, in parallel to road T-1316, on its eastern side, the SMM observed that ground works continued, involving 12 workers some of whom were operating machinery. (For previous observations in this area, [SMM Daily Report of 19 November 2021](#).)

### **Border areas outside government control**

On 18 November, at an agricultural compound in Pobeda (non-government-controlled, 57km south-east of Donetsk), about 6.5km west of the international border with the Russian Federation, an SMM long-range UAV spotted two probable military-type trucks.

The SMM continued monitoring in Kherson, 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 [SMM Daily Report of 19 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 Staromykhailivka (non-government-controlled, 15km west of Donetsk), two visibly armed members of the armed formations denied the Mission passage west into the settlement citing a “lack of permission from their superiors”. The patrol was following up on reports of damage to civilian properties in the settlement. (See above.)
- While at a checkpoint near Ozerianivka (non-government-controlled, 35km north-east of Donetsk) to conduct an impact site assessment, a member of the armed formations told the SMM not to conduct a UAV flight in the area, after contacting her superiors. The Mission did not fly its UAV.
- At a checkpoint south of the Stanytsia Luhanska bridge (15km north-east of Luhansk), a member of the armed formations denied the SMM passage towards the bridge, citing a “lack of permission from those in control”.
- At a checkpoint about 500m south of the disengagement area near Zolote (government-controlled, 60km west of Luhansk), a member of the armed formations denied the Mission passage north towards the area.

### *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:

- At a checkpoint about 2.5km north of Petrivske (non-government-controlled, 41km south of Donetsk), a visibly armed member of the armed formations allowed the SMM passage south towards the disengagement area near Petrivske only after about 20 minutes of waiting.

### Other impediments:<sup>6</sup>

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<sup>6</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.

- At a checkpoint in Staromykhailivka, the Mission had to cancel a planned mini-UAV flight after two visibly armed members of the armed formations threatened to shoot the UAV down. (See above.)
- While conducting a test flight, an SMM long-range UAV experienced GPS signal interference, assessed as caused by jamming, while flying over areas near Varvarivka (government-controlled, 81km north-west of Donetsk).
- SMM mini-UAVs experienced GPS signal interference, assessed as caused by probable jamming, during 14 flights: twice each over areas near Holmivskiyi (non-government-controlled, 49km north-east of Donetsk), Luhanske (government-controlled, 59km north-east of Donetsk), Svitlodarsk (government-controlled, 57km north-east of Donetsk), Bohdanivka (government-controlled, 41km south-west of Donetsk) and Popasna (government-controlled, 69km west of Luhansk), and once each near Vrubivka (government-controlled, 72km west of Luhansk), Novozvanivka (government-controlled, 70km west of Luhansk), Smile (non-government-controlled, 31km north-west of Luhansk) and Petrovenky (non-government-controlled, 40km west of Luhansk).

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

<b>Date</b>	<b>No.</b>	<b>Type</b>	<b>Location</b>	<b>Source of observation</b>
<b>Government-controlled areas</b>				
18/11/2021	3	Probable armoured combat vehicle (type undetermined)	In a residential area of Chernenko (86km south of Donetsk)	Mini-UAV
	3	Infantry fighting vehicle (three BMP-2, one of which probable)	Near Vyskryva (76km west of Luhansk)	
	2	Armoured combat vehicle (type undetermined)		
19/11/2021	1	Infantry fighting vehicle (BMP-2)	In a residential area of Novozvanivka (70km west of Luhansk)	Patrol
<b>Non-government-controlled areas</b>				
19/11/2021	1	Armoured personnel carrier (BTR-80)	Near Sabivka (non-government-controlled, 13km west of Luhansk)	Patrol

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<sup>7</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 19 November 2021<sup>8</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	4	Projectile	SW to NE (unable to assess if inside or outside the disengagement area near Petrivske)	N/K	18-Nov, 20:31
	2-4km ESE	Recorded	1	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske )	N/K	18-Nov, 20:55
	2-4km ESE	Recorded	21	Projectile	NNE to SSW (assessed as inside the disengagement area near Petrivske )	N/K	18-Nov, 21:04
	2-3km ESE	Recorded	1	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	18-Nov, 21:19
	2-4km SE	Recorded	1	Explosion	Undetermined (unable to assess if inside or outside the disengagement area near Petrivske)	N/K	18-Nov, 21:21
	4-6km SE	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area near Petrivske)	N/K	18-Nov, 21:21
	4-6km SE	Recorded	2	Projectile	SSW to NNE (assessed as outside the disengagement area near Petrivske)	N/K	18-Nov, 21:21
	3-5km SE	Recorded	1	Projectile	SSW to NNE (unable to assess if inside or outside the disengagement area near Petrivske)	N/K	18-Nov, 23:52
	3-5km SE	Recorded	1	Projectile	SSW to NNE (unable to assess if inside or outside the disengagement area near Petrivske)	N/K	19-Nov, 00:09
	3-5km SE	Recorded	1	Projectile	SSW to NNE (unable to assess if inside or outside the disengagement area near Petrivske)	N/K	19-Nov, 00:23
	3-5km ESE	Recorded	1	Projectile	SSW to NNE (unable to assess if inside or outside the disengagement area near Petrivske)	N/K	19-Nov, 00:23
	3-5km SE	Recorded	2	Projectile	WSW to ENE (unable to assess if inside or outside the disengagement area near Petrivske)		19-Nov, 18:50
	SMM camera at Oktiabr mine (non-government-controlled, 9km NW of Donetsk city centre)	1-3km W	Recorded	7	Projectile	NNE to SSW	N/K
1-3km W		Recorded	10	Projectile	NNE to SSW	N/K	18-Nov, 21:07
1-3km W		Recorded	10	Projectile	NNE to SSW	N/K	18-Nov, 21:09
1-3km W		Recorded	2	Projectile	NNE to SSW	N/K	18-Nov, 21:11
1-3km W		Recorded	8	Projectile	NNE to SSW	N/K	18-Nov, 21:12
1-3km W		Recorded	1	Muzzle flash		N/K	19-Nov, 00:33
1-3km W		Recorded	1	Projectile	NE to SW	N/K	19-Nov, 00:33
1-3km W		Recorded	1	Projectile	NNE to SSW	N/K	19-Nov, 00:44
1-3km W		Recorded	1	Projectile	ENE to WSW	N/K	19-Nov, 00:44
1-3km W		Recorded	1	Projectile	N to S	N/K	19-Nov, 00:51
SMM camera 1km SW of Shyrokyne (government-controlled, 100km S of Donetsk)	2-4km N	Recorded	1	Muzzle flash		N/K	18-Nov, 18:46
	4-6km N	Recorded	1	Projectile	ESE to WNW	N/K	18-Nov, 19:58
	4-6km N	Recorded	2	Projectile	E to W	N/K	18-Nov, 20:19
	5-7km N	Recorded	5	Muzzle flash		N/K	18-Nov, 20:19
	4-6km N	Recorded	1	Projectile	ESE to WNW	N/K	18-Nov, 20:24
	4-6km N	Recorded	1	Projectile	W to E	N/K	18-Nov, 20:29
	4-6km N	Recorded	6	Projectile	E to W	N/K	18-Nov, 20:37
	4-6km N	Recorded	1	Muzzle flash		N/K	18-Nov, 20:37
	4-6km N	Recorded	1	Projectile	E to W (subsequent to previous event)	N/K	18-Nov, 20:37
	4-6km N	Recorded	1	Muzzle flash		N/K	18-Nov, 20:37
	4-6km N	Recorded	2	Projectile	E to W	N/K	18-Nov, 20:38

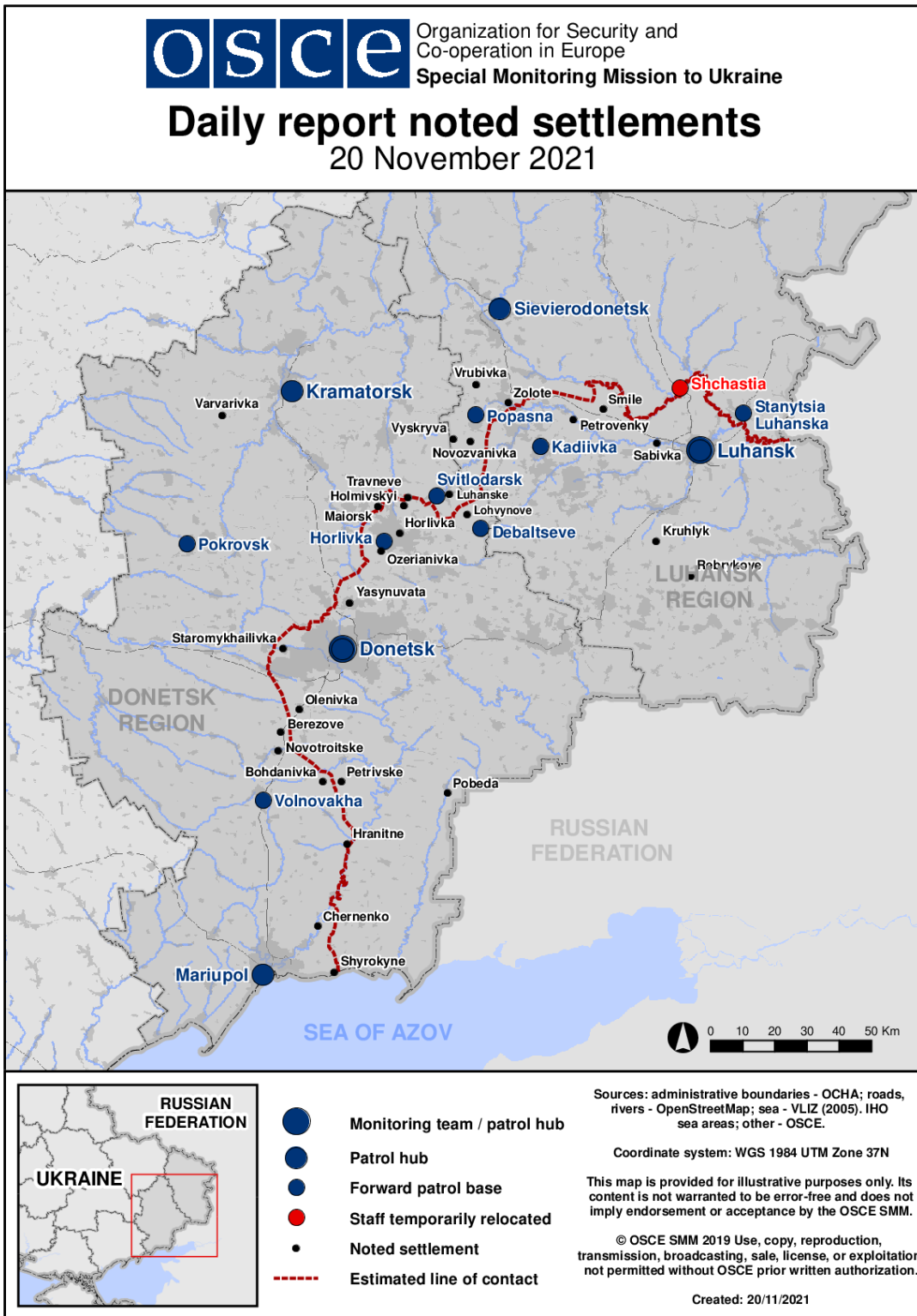
<sup>8</sup> The table only includes ceasefire violations directly observed by SMM patrols or recorded by the SMM cameras, and it may include those also assessed to be live-fire exercises, controlled detonations, etc. Details provided – in terms of distance, direction, weapons-type, etc. – are based 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
	4-6km N	Recorded	1	Projectile	E to W	N/K	18-Nov, 20:39
	4-6km N	Recorded	1	Muzzle flash		N/K	18-Nov, 20:55
	4-6km N	Recorded	1	Projectile	NNE to SSW (subsequent to previous event)	N/K	18-Nov, 20:55
	4-6km N	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	18-Nov, 20:55
	4-6km N	Recorded	1	Illumination flare	In vertical flight	N/K	18-Nov, 21:08
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	18-Nov, 21:11
	4-6km N	Recorded	1	Explosion	Airburst	N/K	18-Nov, 21:18
	4-6km N	Recorded	1	Muzzle flash		N/K	18-Nov, 21:21
	4-6km N	Recorded	1	Projectile	NNE to SSW (subsequent to previous event)	N/K	18-Nov, 21:21
	4-6km N	Recorded	7	Projectile	In vertical flight	N/K	18-Nov, 21:21
	4-6km N	Recorded	8	Projectile	E to W	N/K	18-Nov, 21:25
	4-6km N	Recorded	1	Projectile	W to E	N/K	18-Nov, 21:26
	4-6km N	Recorded	1	Muzzle flash		N/K	18-Nov, 21:49
	4-6km N	Recorded	1	Projectile	E to W (subsequent to previous event)	N/K	18-Nov, 21:49
	4-6km N	Recorded	1	Explosion	Airburst (subsequent to previous event)	N/K	18-Nov, 21:49
	4-6km N	Recorded	6	Projectile	E to W	N/K	18-Nov, 21:53
	4-6km N	Recorded	8	Projectile	E to W	N/K	18-Nov, 21:58
	4-6km N	Recorded	1	Muzzle flash		N/K	18-Nov, 21:59
	4-6km N	Recorded	1	Projectile	E to W (subsequent to previous event)	N/K	18-Nov, 21:59
	4-6km N	Recorded	1	Explosion	Airburst (subsequent to previous event)	N/K	18-Nov, 21:59
	4-6km N	Recorded	2	Projectile	E to W	N/K	18-Nov, 22:01
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	18-Nov, 22:03
	4-6km N	Recorded	6	Projectile	E to W	N/K	18-Nov, 22:06
	4-6km N	Recorded	3	Projectile	W to E	N/K	18-Nov, 22:07
	4-6km NNE	Recorded	1	Explosion	Undetermined	N/K	18-Nov, 22:07
	4-6km NNE	Recorded	1	Projectile	ESE to WNW	N/K	18-Nov, 22:43
	4-6km NNE	Recorded	1	Projectile	ESE to WNW	N/K	18-Nov, 22:44
	4-6km NNE	Recorded	9	Projectile	ESE to WNW	N/K	18-Nov, 22:45
	4-6km NNE	Recorded	4	Projectile	SW to NE	N/K	18-Nov, 23:11
	4-6km N	Recorded	1	Projectile	W to E	N/K	18-Nov, 23:57
	4-6km N	Recorded	1	Projectile	W to E	N/K	18-Nov, 23:58
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	19-Nov, 00:00
	4-6km N	Recorded	1	Projectile	E to W	N/K	19-Nov, 00:08
	4-6km N	Recorded	1	Projectile	SSE to NNW	N/K	19-Nov, 00:08
	4-6km N	Recorded	3	Projectile	SE to NW	N/K	19-Nov, 00:09
	4-6km N	Recorded	4	Projectile	WSW to ENE	N/K	19-Nov, 00:24
	4-6km N	Recorded	4	Projectile	WSW to ENE	N/K	19-Nov, 00:27
	4-6km N	Recorded	2	Projectile	E to W	N/K	19-Nov, 01:29
	4-6km N	Recorded	1	Projectile	W to E	N/K	19-Nov, 01:35
	4-6km N	Recorded	10	Projectile	SW to NE	N/K	19-Nov, 01:40
	4-6km N	Recorded	10	Projectile	SW to NE	N/K	19-Nov, 01:41
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	19-Nov, 05:20
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	19-Nov, 05:25
	4-6km N	Recorded	1	Muzzle flash		N/K	19-Nov, 05:31
	4-6km N	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	19-Nov, 05:31
	4-6km N	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	19-Nov, 05:31
	3-5km NNE	Recorded	1	Projectile	ESE to WNW	N/K	19-Nov, 17:29
Horlivka (non-government-controlled, 39km NE of Donetsk)	4-6km SSW	Heard	10	Burst	Undetermined	HMG	18-Nov, 19:35-19:55
	4-6km SSW	Heard	2	Burst	Undetermined	HMG	18-Nov, 20:40-20:42
	3-5km SW	Heard	18	Burst	Undetermined	HMG	18-Nov, 20:55-21:05
	5-7km NW	Heard	2	Explosion	Undetermined	N/K	18-Nov, 22:05
	3-5km NW	Heard	12	Explosion	Undetermined	N/K	18-Nov, 23:02-23:10

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
Starohnativka (government-controlled, 51km S of Donetsk)	7-8km NNW	Heard	2	Explosion	Undetermined	N/K	19-Nov, 10:00-10:05
	5-6km NE	Heard	15	Explosion	Undetermined	N/K	19-Nov, 10:00-10:05
	6-7km SSE	Heard	26	Burst		HMG	19-Nov, 10:25-10:35
About 1.5km NNW of Chermalyk (government-controlled, 77km S of Donetsk)	3-4km N	Heard	19	Burst		HMG	19-Nov, 11:05
Berezove (government-controlled, 32km SW of Donetsk)	5-7km NNW	Heard	2	Explosion	Undetermined	N/K	19-Nov, 11:19
	2-4km NNW	Heard	23	Explosion	Undetermined	N/K	19-Nov, 11:58-12:06
	2-4km NNW	Heard	6	Burst		HMG	19-Nov, 11:58-12:06
	2-4km NNW	Heard	14	Shot		Small arms	19-Nov, 11:58-12:06
2-4km NNW	Heard	16	Burst		Small arms	19-Nov, 11:58-12:06	
Hranitne (government-controlled, 60km S of Donetsk)	2-4km SSE	Heard	1	Explosion	Undetermined	N/K	19-Nov, 13:02
About 1km SW of Novoluhanske (government-controlled, 53km NE of Donetsk)	1km W	Heard	10	Shot		Small arms	19-Nov, 10:31-10:36
	1km W	Heard	4	Shot		Small arms	19-Nov, 10:46
	700m W	Heard	3	Shot		Small arms	19-Nov, 10:54
About 1km NW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	5-6km SW	Heard	5	Explosion	Undetermined	N/K	19-Nov, 09:55
	4-6km SW	Heard	6	Explosion	Undetermined	N/K	19-Nov, 13:35
	4-6km SW	Heard	3	Explosion	Undetermined	N/K	19-Nov, 13:40
Trudivski area (non-government-controlled, 15km SW of Donetsk City centre)	3-4km S	Heard	1	Explosion	Undetermined	N/K	19-Nov, 10:58
About 1.5km WSW of Ozerianivka (non-government-controlled, 35km NE of Donetsk)	5-6km NW	Heard	2	Burst		Small arms	19-Nov, 10:22
	5-6km NW	Heard	1	Explosion	Undetermined	N/K	19-Nov, 10:31
Oleksandrivka (non-government-controlled, 20km SW of Donetsk)	2-3km NW	Heard	4	Explosion	Undetermined	N/K	19-Nov, 11:15-11:19
	5-7km N	Heard	2	Explosion	Undetermined	N/K	19-Nov, 11:22
About 2.5km ESE of Lozove (non-government-controlled, 13km W of Donetsk)	2-3km S	Heard	2	Explosion	Undetermined	N/K	19-Nov, 11:16
SMM camera in Kriakivka (government-controlled, 38km NW of Luhansk)	3-5km SSW	Recorded	1	Explosion	Undetermined	N/K	19-Nov, 18:21
	3-5km SSW	Recorded	1	Explosion	Airburst	N/K	19-Nov, 18:21
SMM camera on N edge of Popasna (government-controlled, 69km W of Luhansk)	4-6km SE	Recorded	1	Projectile	SW to NE	N/K	18-Nov, 17:57
	3-5km SE	Recorded	6	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	19-Nov, 16:44
	3-5km SE	Recorded	6	Projectile	In vertical flight (assessed as outside the disengagement area near Zolote)	N/K	19-Nov, 16:44
	3-5km SE	Recorded	8	Projectile	NW to SE (assessed as outside the disengagement area near Zolote)	N/K	19-Nov, 16:44
	3-5km SE	Recorded	1	Explosion	Undetermined	N/K	19-Nov, 16:45
SMM camera in Zolote (government-controlled, 60km W of Luhansk)	2-4km E	Recorded	1	Projectile	NW to SE (assessed as outside the disengagement area near Zolote)	N/K	19-Nov, 00:23
Rebrykove (non-government-controlled, 39km S of Luhansk)	10-15km NW	Heard	17	Explosion	Undetermined	Artillery (type N/K)	19-Nov, 09:25-09:27
	10-15km NW	Heard	20	Explosion	Undetermined	Artillery (type N/K)	19-Nov, 09:42-09:45
SE edge of Berezivske (non-government-controlled, 53km NW of Luhansk)	4-5km WNW	Heard	17	Burst	Assessed as outside the disengagement area near Zolote	HMG	19-Nov, 13:20
About 3km N of Pervomaisk (non-government-controlled, 58 km W of Luhansk)	3-4km W	Heard	3	Explosion	Impact (assessed as outside the disengagement area near Zolote)	N/K	19-Nov, 12:26-12:29
	4-5km WSW	Heard	1	Burst	Assessed as outside the disengagement area near Zolote	Small arms	19-Nov, 12:43
	4-5km WSW	Heard	10	Shot	Assessed as outside the disengagement area near Zolote	HMG	19-Nov, 12:43
About 2km W of Holubivka (non-government-controlled, 51km w of Luhansk)	6-8km WSW	Heard	23	Burst	Assessed as outside the disengagement area near Zolote	HMG	19-Nov, 13:42
E edge of Zolote-5/Mykhailivka (non-government-controlled, 60km W of Luhansk)	4-5km NNE	Heard	3	Shot		Small arms	19-Nov, 10:20

<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>
Lomuvatka (non-government-controlled, 57km W of Luhansk)	8-10km S	Heard	2	Explosion	Undetermined	N/K	19-Nov, 12:03

### Map of Donetsk and Luhansk regions<sup>9</sup>



<sup>9</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).