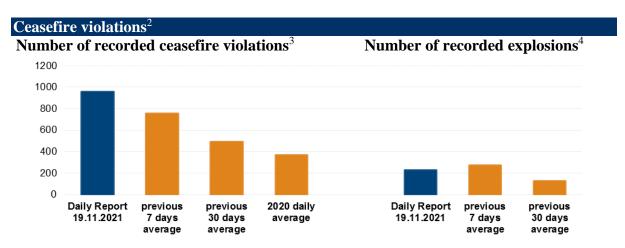
# Daily Report 272/2021

19 November 2021<sup>1</sup>

### **Summary**

- In Donetsk region, the Mission recorded 715 ceasefire violations, including 98 explosions. In the previous reporting period, it recorded 408 ceasefire violations in the region.
- In Luhansk region, the SMM recorded 245 ceasefire violations, including 130 explosions. In the previous reporting period, it recorded 256 ceasefire violations in the region.
- The Mission continued monitoring the disengagement areas near Stanytsia Luhanska, Zolote and Petrivske. It recorded ceasefire violations and spotted people inside the area near Zolote.
- The SMM facilitated and monitored adherence to localized ceasefires to enable the operation and repair of critical civilian infrastructure, as well as a transfer of funds from non-government to government-controlled areas.
- 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 monitored the security situation in east and south-east Kherson region.
- The Mission monitored gatherings in Lviv and Kyiv.
- The SMM's freedom of movement continued to be restricted, including at checkpoints of the armed formations near Petrivske, Starolaspa and Nova Marivka, Donetsk region and at two border crossing points outside government control in Luhansk region. Its UAVs again experienced multiple instances of probable jamming and jamming.\*



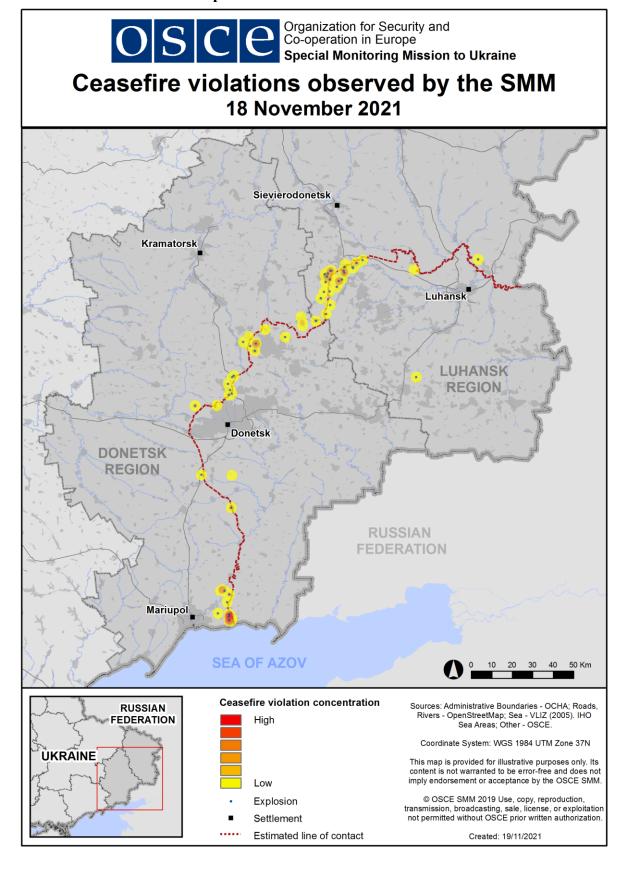
<sup>&</sup>lt;sup>1</sup> Based on information from the Monitoring Teams as of 19:30, 18 November 2021. All times are in Eastern European Time.

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

<sup>&</sup>lt;sup>3</sup> Including explosions.

<sup>&</sup>lt;sup>4</sup> Including from unidentified weapons.

## Map of recorded ceasefire violations



In Donetsk region, the SMM recorded 715 ceasefire violations, including 98 explosions (six impacts, two airbursts and 90 undetermined). The majority of ceasefire violations occurred in areas north of Shyrokyne (government-controlled, 100km south of Donetsk). In the <u>previous reporting period</u>, the Mission recorded 408 ceasefire violations in the region, some of which also occurred in areas north of Shyrokyne.

In Luhansk region, the SMM recorded 245 ceasefire violations, including 130 explosions (one outgoing, 31 impacts and 98 undetermined). The majority of ceasefire violations occurred inside and in areas close to the disengagement area near Zolote (government-controlled, 60km west of Luhansk) (see below). In the <u>previous reporting period</u>, the Mission recorded 256 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 82,044 ceasefire violations in both Donetsk and Luhansk regions (including 22,584 explosions, 19,313 projectiles in flight, 385 muzzle flashes, 349 illumination flares and at least 39,413 bursts and shots).

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

Inside the disengagement area near **Stanytsia Luhanska** (government-controlled, 16km northeast 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).

During the day on 17 November, inside the **disengagement area near Zolote**, an SMM long-range unmanned aerial vehicle (UAV) spotted one person inside a former position of the Ukrainian Armed Forces about 1km south of the area's northern edge and about 50m west of road T-1316 and eight people near a former position of the armed formations near the area's eastern edge and about 1.5km north of its south-eastern corner.

On 18 November, near the checkpoint of the armed formations south of the disengagement area, the Mission saw eight 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 one undetermined explosion, assessed as inside the area, as well as two undetermined explosions and seven projectiles in flight, assessed as outside the area but within 5km of its periphery. During the same period, SMM patrols heard 15 explosions (12 impacts and three undetermined), assessed as inside the area, as well as 19 explosions (18 impacts and one undetermined) and 18 bursts of heavy-machine-gun and small-arms fire, assessed as outside the area but within 5km of its periphery.

<sup>&</sup>lt;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 of 18 November, the SMM camera 2km east of Bohdanivka (government-controlled, 41km south-west of Donetsk) recorded ten explosions (two impacts and eight undetermined) and two projectiles in flight, unable to be assessed as either inside or outside the **disengagement area near Petrivske** (non-government-controlled, 41km south of Donetsk).

# 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 two mortars in government-controlled areas of Donetsk and Luhansk regions.

Beyond withdrawal lines but outside designated storage sites the Mission observed seven howitzers, 12 anti-tank guns, and 25 tanks in government-controlled areas of Donetsk region, including some at a railway station, as well as nine tanks in training areas in non-government-controlled areas of Luhansk region. (For further information, see the tables below.)

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

The SMM observed eight armoured combat vehicles in government-controlled area of Donetsk and Luhansk regions, including in a compound and near a residential area, as well as one anti-aircraft gun and one trench digger near a residential area in a non-government-controlled area of Donetsk region. (For further information, see the table below.)

### Presence of anti-tank mines near Zaitseve, Donetsk region

On 15 November, an SMM mini-UAV spotted six <u>previously reported</u> anti-tank mines laid across Yesenina Street in the south-western part of Zaitseve (50km north-east of Donetsk), about 20m west of a probable civilian house, assessed as belonging to the armed formations.

On the same day, about 800m north-west of the abovementioned mines, the same UAV spotted five previously reported anti-tank mines laid across Manuilskoho Street, about 100m east-south-east of a residential area, assessed as belonging to the Ukrainian Armed Forces (For previous observations in the area, see <u>SMM Daily Report of 27 October 2020</u>).

### 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 three undetermined explosions, assessed as within a 5km radius of the DFS. One of them occurred when a bus with DFS workers was driving between the station and Yasynuvata (non-government-controlled, 16km north-east of Donetsk).

The Mission also monitored the security situation around the pumping station near Vasylivka (non-government-controlled, 20km north of Donetsk) and monitored adherence to a localized ceasefire to enable repair to a water pipeline near Hladosove (government-controlled, 51km north-east of Donetsk).

The SMM also facilitated and monitored adherence to a localized ceasefire to enable a transfer of funds from non-government- to government-controlled areas across the bridge in Shchastia (government-controlled, 20km north of Luhansk), reportedly related to water payments. During the transfer, an SMM mini-UAV experienced GPS signal interference, assessed as caused by probable jamming, while flying over areas near Vesela Hora (non-government-controlled, 16km north of Luhansk). (See below.)\*

## Situation at entry-exit checkpoints and corresponding checkpoints

In Donetsk region, the Mission observed that the entry-exit checkpoint (EECP) near Novotroitske (government-controlled, 36km south-west of Donetsk) was open but did not see any traffic passing through. It also 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.

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 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.

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 again observed nine workers conducting ground works, including some operating machinery. (For previous observations in this area, SMM Daily Report of 18 November 2021.)

At the corresponding checkpoint of the armed formations 3km south-east of the bridge in Shchastia, the Mission saw a convoy of six trucks and two vehicles (all but one of which bearing the logo of an international organization), travelling from non-government-controlled areas to government-controlled areas.

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

While at a border crossing point near Izvaryne (52km south-east of Luhansk), the SMM observed three cars (with "LPR" plates), one covered cargo truck (with "LPR" plates) and four people (three women and one man, mixed ages) entering Ukraine, as well as 21 people (mixed genders and ages) exiting Ukraine. After about five minutes, a member of the armed formations told the SMM to leave the area.\*

While at a border crossing point near Dovzhanske (84km south-east of Luhansk), the Mission saw one car, two covered cargo trucks (including one with "LPR" plates) and five people (four women and one man, mixed ages) entering Ukraine. After about five minutes, a member of the armed formations told the SMM to leave the area.\*

<sup>&</sup>lt;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.

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

From 14 to 16 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), along the coast of the Sea of Azov near Stokopani (181km east of Kherson), Henichesk (176 km east of Kherson), Strilkove (193km south-east of Kherson), areas near Ivanivka (109km south-east of Kherson), as well as at a State Border Guard Service of Ukraine post in Valok (188km south-east of Kherson). It also visited areas along the North Crimean Canal. While monitoring these areas, the Mission observed no change in the security situation.

### The SMM monitored gatherings in Lviv and Kyiv

In Kyiv, in front of the Pecherskyi City District Court at 15 Volodymyrska Street, the Mission observed a gathering of about 120 men (mostly men, in their twenties), some of whom were holding flags and banners of *National Corps* and *Bastion*, showing their support for a member of *National Corps* standing trial. It saw about 35 law enforcement officers nearby and noted a calm situation.

In Lviv, on 17 and 18 November, in front of the Halytskyi District Court at 2 Cholovskoho Street, the SMM observed gatherings of about 50 people (mixed genders and ages) and 80 people (mixed genders and ages), respectively, in support of an activist attending a court hearing. It also saw counter-protests of about 30 people (mixed genders and ages) and 40 people (mostly men, in their twenties to thirties), respectively, some wearing insignias of *National Corps*. On both days, the SMM observed about 30 to 90 law enforcement officers nearby and noted a calm situation.

The SMM continued monitoring in Odessa, Ivano-Frankivsk, Kharkiv, 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 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.

### Denials:

- At a checkpoint near Starolaspa (non-government-controlled, 51km south of Donetsk), a visibly armed member of the armed formations denied the SMM passage into the settlement, citing "orders from his superiors". While at the checkpoint, the Mission observed civilian traffic passing through.

- At a checkpoint near Nova Marivka (non-government-controlled, 64km south of Donetsk), a visibly armed member of the armed formations denied the SMM passage into the settlement. While at the checkpoint, the Mission observed civilian traffic passing through.
- At a border crossing point near Izvaryne (non-government-controlled, 52km south-east of Luhansk), a member of the armed formations told the SMM to leave the area, referring to a lack of permission from those in control.
- At a border crossing point near Dovzhanske (non-government-controlled, 84km south-east of Luhansk), a member of the armed formations told the Mission to leave the area, referring to a lack of permission from those in control.

*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 60 minutes of waiting, citing "the SMM's safety".

# Other impediments:<sup>7</sup>

- 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 Varvarivka (government-controlled, 81km north-west of Donetsk) and Kostiantynivka (government-controlled, 60km north of Donetsk), between Kostiantynivka and Bila Hora (government-controlled, 54km north of Donetsk) and between Myrne (government-controlled, 63km south of Donetsk) and Prokhorivka (government-controlled, 53km south of Donetsk). The same UAV experienced GPS signal interference, assessed as caused by jamming, while flying over areas between Bila Hora and Kharkivske (non-government-controlled, 63km south-east of Donetsk), between Kumachove (non-government-controlled, 55km south-east of Donetsk) and Myrne, between Prokhorivka and Starovarvarivka, and near Kostiantynivka.
- SMM mini-UAVs experienced GPS signal interference, assessed as caused by probable jamming, during five flights: twice while flying over areas near Popasna (government-controlled, 69km west of Luhansk) and once each while flying over Nevelske (government-controlled, 18km north-west of Donetsk) to conduct an impact site assessment, as well as near Vrubivka (government-controlled, 72km west of Luhansk) and Vesela Hora (non-government-controlled, 16km north of Luhansk).

<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.

## Tables of weapons

## Weapons in violation of withdrawal lines

Date	No. of weapons	Type of weapon	Location	Source of observation		
Government-controlled areas						
	1	Mortar (type undetermined)	Near Hranitne (60km south of Donetsk)	Mini-UAV		
17/11/2021	1	Probable mortar (type undetermined)	Near Troitske (69km west of Luhansk)	Long-range UAV		

# Weapons beyond withdrawal lines but outside designated storage sites

Date	No. of weapons	Type of weapon	Location	Source of observation
		Government-controll	ed areas	
17/11/2021	7	Self-propelled howitzer (2S3 Akatsiya, 152mm)	Near Novomykolaivka (69km south-west of Donetsk)	Mini-UAV
18/11/2021	25	Tank (T-64)	At a railway station in Pokrovsk (formerly	Patrol
18/11/2021	12	Anti-tank gun (MT-12 Rapira, 100mm)	Krasnoarmiisk, 55km north-west of Donetsk)	rauoi
		Non-government-contro	olled areas	
19/11/2021	6	Tank (type undetermined)	In a training area near Kruhlyk (31km south-west of Luhansk)	Patrol
18/11/2021	3	Tank (type undetermined)	In a training area near Myrne (28km south-west of Luhansk)	Patroi

# Other weapons<sup>8</sup>

Date	No. of weapons	Type of weapon	Location	Source of observation				
	Government-controlled areas							
17/11/2021	7	Anti-tank gun (types undetermined)	Near Kleban Byk (48km north of Donetsk)	Patrol				

# Table of military and military-type presence in the security zone9

Date	No.	Туре	Location	Source of observation				
		Government-controlle	ed areas					
	2	Armoured combat vehicle (type undetermined)	Near Bohdanivka (41km south-west of Donetsk)	Long-range UAV				
17/11/2021	4 Infantry fighting vehicle (BMP-1)		In a compound near Vozdvyzhenka (formerly Krasnyi Pakhar, 66km north-east of Donetsk)	Mini-UAV				
1 Probable armoured reconnaissance vehicle (BRD		Probable armoured reconnaissance vehicle (BRDM-2)	Near Krynychne (67km north-east of Donetsk)					
18/11/2021	1	Armoured reconnaissance vehicle (BRDM-2)	Near a residential area of Stanytsia Luhanska (16km north-east of Luhansk)	SMM camera in Stanytsia Luhanska				
	Non-government-controlled areas							
17/11/2021	1 Anti-aircraft gun (ZU-23, 23mm)		Near a residential area of Novohryhorivka (61km north-east of Donetsk)	Mini-UAV				

<sup>&</sup>lt;sup>8</sup> The SMM was unable to assess whether these weapons were in violation of withdrawal lines in the absence of information on their calibre.

<sup>&</sup>lt;sup>9</sup> The hardware mentioned in this section is not proscribed by the provisions of the Minsk agreements on the withdrawal of weapons.

# Table of ceasefire violations as of 18 November $2021^{10}$

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera in Avdiivka (government-controlled, 17km N of Donetsk)	3-5km ESE	Recorded	1	Explosion	Undetermined	N/K	17-Nov, 23:09
SMM camera in Berezove (government-controlled,	2-4km SSE	Recorded	5	Explosion	Undetermined	N/K	18-Nov, 16:59
31km SW of Donetsk)	2-4km SSE	Recorded	2	Projectile	SSW to NNE	N/K	18-Nov, 16:59
SMM camera 2km E of Bohdanivka (government-	2-4km SE	Recorded	2	Projectile	WSW to ENE (unable to assess if	N/K	18-Nov, 16:58
controlled, 41km SW of Donetsk)	2-4KIII SL	Recorded	2	Trojectiic	inside or outside the disengagement area near Petrivske)	TV K	10-1407, 10.36
	2-4km SE	Recorded	1	Explosion	Undetermined (unable to assess if inside or outside the disengagement area near Petrivske)	N/K	18-Nov, 16:58
	2-4km SE	Recorded	2	Projectile	WSW to ENE (unable to assess if inside or outside the disengagement area near Petrivske)	N/K	18-Nov, 16:59
	2-4km SE	Recorded	2	Explosion	Impact (subsequent to previous event, unable to assess if inside or outside the disengagement area near Petrivske)	N/K	18-Nov, 16:59
	2-4km SE	Recorded	7	Explosion	Undetermined (unable to assess if inside or outside the disengagement area near Petrivske)	N/K	18-Nov, 16:59
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	2-4km E	Recorded	7	Projectile	In vertical flight	N/K	17-Nov, 20:07
SMM camera at Oktiabr mine (non-government-controlled, 9km NW of Donetsk city centre)	0.5-1.5km NW	Recorded	1	Illumination flare	In vertical flight	N/K	17-Nov, 23:12
SMM camera 1km SW of Shyrokyne (government-	2-4km N	Recorded	3	Projectile	WSW to ENE	N/K	17-Nov, 18:17
controlled, 100km S of Donetsk)	2-4km N	Recorded	7	Projectile	WSW to ENE	N/K	17-Nov, 18:18
	2-4km N	Recorded	2	Projectile	WSW to ENE	N/K	17-Nov, 18:19
	2-4km N	Recorded	2	Projectile	WSW to ENE	N/K	17-Nov, 18:20
	2-4km N	Recorded	2	Projectile	WSW to ENE	N/K	17-Nov, 18:26
	2-4km N	Recorded	1	Projectile	WSW to ENE	N/K	17-Nov, 18:28
	2-4km N	Recorded	1	Projectile	WSW to ENE	N/K	17-Nov, 18:29
	2-4km N	Recorded	1	Projectile	WSW to ENE	N/K	17-Nov, 18:30
	2-4km N	Recorded	1	Explosion	Airburst	N/K	17-Nov, 19:05
	2-4km N	Recorded	2	Projectile	ESE to WNW	N/K	17-Nov, 19:05
	2-4km N	Recorded	1	Explosion	Airburst	N/K	17-Nov, 19:07
	2-4km N	Recorded	20	Projectile	ESE to WNW	N/K	17-Nov, 19:07
	2-4km N	Recorded	2	Projectile	WSW to ENE	N/K	17-Nov, 19:07
	2-4km N	Recorded	2	Projectile	WSW to ENE	N/K	17-Nov, 19:08
	2-4km N	Recorded	1	Projectile	WSW to ENE	N/K	17-Nov, 19:09
	2-4km N	Recorded	2	Projectile	WSW to ENE	N/K	17-Nov, 19:10
	2-4km N	Recorded	2	Projectile	W to E	N/K	17-Nov, 19:16
	2-4km N	Recorded	12	Projectile	W to E	N/K	17-Nov, 19:31
	2-4km N	Recorded	2	Projectile	ESE to WNW	N/K	17-Nov, 19:31
	2-4km N	Recorded	33	Projectile	W to E	N/K	17-Nov, 19:32
	2-4km N	Recorded	4	Projectile	ESE to WNW	N/K	17-Nov, 19:32
	2-4km N	Recorded	8	Projectile	W to E	N/K	17-Nov, 19:33
	2-4km N	Recorded	5	Projectile	W to E	N/K	17-Nov, 19:34
	2-4km N	Recorded	2	Projectile	ESE to WNW	N/K	17-Nov, 19:34
	2-4km N	Recorded	5	Projectile	WSW to ENE	N/K	17-Nov, 19:35
	2-4km N	Recorded	16	Projectile	WSW to ENE	N/K	17-Nov, 19:36
	2-4km N	Recorded	13	Projectile	WSW to ENE	N/K	17-Nov, 19:37
	2-4km N	Recorded	9	Projectile	WSW to ENE	N/K	17-Nov, 19:38
	2-4km N	Recorded	1	Projectile	WSW to ENE	N/K	17-Nov, 19:39
	4-6km N	Recorded	2	Projectile	W to E	N/K	17-Nov, 20:56

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<sup>&</sup>lt;sup>10</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.

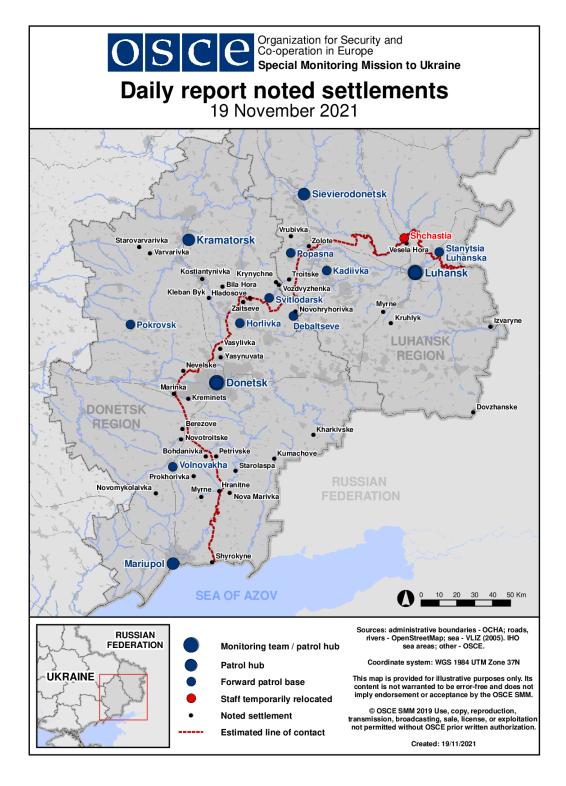
SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
Divitive position	4-6km N	Recorded	3	Projectile	W to E	N/K	17-Nov, 20:57
	4-6km N	Recorded	22	Projectile	W to E	N/K	17-Nov, 20:58
	4-6km N	Recorded	6	Projectile	W to E	N/K	17-Nov, 20:59
	5-7km N	Recorded	16	Projectile	WSW to ENE	N/K	17-Nov, 21:00
	4-6km N	Recorded	13	Projectile	W to E	N/K	17-Nov, 21:01
	4-6km N	Recorded	19	Projectile	W to E	N/K	17-Nov, 21:02
	4-6km N	Recorded	15	Projectile	W to E	N/K	17-Nov, 21:02
	4-6km N	Recorded	8	Projectile	W to E	N/K	17-Nov, 21:04
	4-6km N	Recorded	9	Projectile	W to E	N/K	17-Nov, 21:04
	4-6km N	Recorded	10	Projectile	W to E	N/K	17-Nov, 21:05
	4-6km N	Recorded	4	Projectile	W to E	N/K	17-Nov, 21:00
	4-6km N	Recorded	6	Projectile	W to E	N/K	17-Nov, 21:07
	4-6km N	Recorded	5	Projectile	W to E	N/K	
	4-6km N	Recorded	1	Projectile	W to E	N/K	17-Nov, 21:10 17-Nov, 21:13
	5-7km N	Recorded	5	Projectile	WSW to ENE	N/K	17-Nov, 21:13
	4-6km N	Recorded	8	Projectile	E to W	N/K	17-Nov, 21:24
	4-6km N	Recorded	_	Muzzle flash	E to W	N/K	
		_	1		W to E (subsequent to previous		17-Nov, 21:27
	4-6km N	Recorded	1	Projectile	event)	N/K	17-Nov, 21:27
	4-6km N	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	17-Nov, 21:27
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	17-Nov, 21:44
	4-6km N	Recorded	2	Projectile	W to E	N/K	17-Nov, 21:46
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	17-Nov, 21:53
	4-6km N	Recorded	2	Projectile	W to E	N/K	17-Nov, 21:55
	5-7km N	Recorded	2	Projectile	SE to NW	N/K	17-Nov, 21:55
	3-5km NNE	Recorded	1	Projectile	W to E	N/K	17-Nov, 21:58
	5-7km N	Recorded	1	Projectile	SE to NW	N/K	17-Nov, 21:58
	5-7km N	Recorded	1	Explosion	Undetermined	N/K	17-Nov, 22:30
	5-7km N	Recorded	1	Explosion	Undetermined	N/K	17-Nov, 22:31
	5-7km N	Recorded	1	Explosion	Undetermined	N/K	17-Nov, 22:35
	4-6km N	Recorded	2	Projectile	W to E	N/K	17-Nov, 22:40
	4-6km N	Recorded	1	Projectile	SW to NE	N/K	17-Nov, 22:41
	4-6km N	Recorded	1	Projectile	W to E	N/K	17-Nov, 23:29
	4-6km N	Recorded	1	Illumination flare	In vertical flight	N/K	17-Nov, 23:29
	4-6km N	Recorded	1	Projectile	W to E	N/K	17-Nov, 23:30
	4-6km N	Recorded	1	Projectile	W to E	N/K	17-Nov, 23:35
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	17-Nov, 23:53
	4-6km N	Recorded	14	Projectile	W to E	N/K	18-Nov, 00:00
	4-6km N	Recorded	5	Projectile	W to E	N/K	18-Nov. 00:01
	4-6km N	Recorded	9	Projectile	W to E	N/K	18-Nov, 00:02
	4-6km N	Recorded	8	Projectile	W to E	N/K	18-Nov, 00:02
	4-6km N		_		W to E	N/K	18-Nov, 00:03
		Recorded	6	Projectile	W to E		
	4-6km N	Recorded	9	Projectile		N/K	18-Nov, 00:05
	4-6km N	Recorded	3	Projectile	W to E Undetermined	N/K	18-Nov, 00:06
	5-7km N	Recorded	10	Explosion		N/K	18-Nov, 00:08
	4-6km N	Recorded	10	Projectile	W to E	N/K	18-Nov, 00:09
	4-6km N	Recorded	4	Projectile	W to E	N/K	18-Nov, 00:10
	5-7km N	Recorded	2	Explosion	Undetermined	N/K	18-Nov, 00:12
	4-6km N	Recorded	5	Projectile	W to E	N/K	18-Nov, 00:18
	4-6km N	Recorded	2	Projectile	W to E	N/K	18-Nov, 00:19
	4-6km N	Recorded	12	Projectile	W to E	N/K	18-Nov, 00:21
	4-6km N	Recorded	1	Muzzle flash		N/K	18-Nov, 00:22
	4-6km N	Recorded	2	Projectile	W to E	N/K	18-Nov, 00:22
	4-6km N	Recorded	3	Projectile	W to E	N/K	18-Nov, 00:26
	4-6km N	Recorded	1	Muzzle flash		N/K	18-Nov, 00:27
	4-6km N	Recorded	2	Projectile	W to E	N/K	18-Nov, 00:27
	4-6km N	Recorded	1	Muzzle flash		N/K	18-Nov, 01:02
	4-6km N	Recorded	1	Projectile	E to W (subsequent to previous event)	N/K	18-Nov, 01:02
	4-6km N	Recorded	5	Projectile	E to W	N/K	18-Nov, 01:02
	4-6km N	Recorded	3	Explosion	Undetermined	N/K	18-Nov, 01:02
	4-6km N	Recorded	1	Muzzle flash		N/K	18-Nov, 01:03
		-		-			

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
•	4-6km N	Recorded	1	Projectile	SE to NW (subsequent to previous	N/K	18-Nov, 01:03
					event)		
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	18-Nov, 01:03
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	18-Nov, 01:04
	4-6km N	Recorded	12	Projectile	E to W	N/K	18-Nov, 01:04
	4-6km N	Recorded	4	Muzzle flash		N/K	18-Nov, 01:09
	5-7km N	Recorded	4	Projectile	SW to NE (subsequent to previous event)	N/K	18-Nov, 01:09
	4-6km N	Recorded	1	Muzzle flash		N/K	18-Nov, 01:09
	4-6km N	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	18-Nov, 01:09
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	18-Nov, 01:13
	4-6km N	Recorded	1	Muzzle flash		N/K	18-Nov, 01:15
	4-6km N	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	18-Nov, 01:15
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	18-Nov, 01:15
	4-6km N	Recorded	1	Projectile	W to E	N/K	18-Nov, 01:17
	4-6km N	Recorded	1	Muzzle flash		N/K	18-Nov, 01:24
	4-6km N	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	18-Nov, 01:24
	4-6km N	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	18-Nov, 01:24
	4-6km N	Recorded	2	Muzzle flash		N/K	18-Nov, 01:37
	4-6km N	Recorded	2	Projectile	W to E (subsequent to previous event)	N/K	18-Nov, 01:37
	4-6km N	Recorded	2	Explosion	Impact (subsequent to previous even)t	N/K	18-Nov, 01:37
	4-6km N	Recorded	7	Projectile	W to E	N/K	18-Nov, 01:38
	4-6km N	Recorded	6	Projectile	W to E	N/K	18-Nov, 01:59
	6-4km N	Recorded	2	Projectile	E to W	N/K	18-Nov, 01:59
	4-6km N	Recorded	1	Projectile	SW to NE	N/K	18-Nov, 01:59
	2-4km NNE	Recorded	1	Projectile	SE to NW	N/K	18-Nov, 17:50
	2-4km NNE	Recorded	11	Projectile	SE to NW	N/K	18-Nov, 18:48
Svitlodarsk (government-controlled, 57km NE of Donetsk)	2-3km ESE	Heard	3	Burst		Small arms	17-Nov, 19:29
· ··· <b>/</b>	2-3km ESE	Heard	6	Burst		Small arms	17-Nov, 19:37
	2-3km ESE	Heard	1	Burst		HMG	17-Nov, 20:42
	8-10km E	Heard	11	Explosion	Undetermined	N/K	17-Nov, 23:05-23:12
	3-4km SE	Heard	3	Burst	1	HMG	17-Nov, 23:09
	2-3km NE	Heard	1	Burst	1	Small	17-Nov, 23:12
			1			arms	17-Nov, 23:34
	2-3km ESE	Heard	2	Burst		Small arms	
Horlivka (non-government-controlled, 39km NE of	4-6km NW	Heard	3	Burst	Undetermined	HMG	17-Nov, 19:49
Donetsk)	4-6km NW	Heard	1	Explosion	Undetermined	N/K	17-Nov, 20:01
	4-6km NW 4-6km NW	Heard Heard	35	Explosion Burst	Undetermined Undetermined	N/K HMG	17-Nov, 20:12 17-Nov,
	4-6km NW	Цоогд	2	Evalories	Undetermined	N/V	20:13-20:14
		Heard	2	Explosion		N/K	17-Nov, 20:16
	4-6km NW	Heard Heard	7	Explosion Burst	Undetermined Undetermined	N/K HMG	17-Nov, 20:19
	4-6km NW 4-6km NW	Heard	1	Explosion	Undetermined	N/K	17-Nov, 20:19 17-Nov, 21:55
	3-5km W	Heard	1	Burst	Undetermined	HMG	17-Nov, 21:55 17-Nov, 22:01
	3-5km W	Heard	3	Explosion	Undetermined	N/K	17-Nov, 22:01 17-Nov, 22:01
	3-5km W	Heard	1	Burst	Undetermined	HMG	17-Nov, 22:01 17-Nov, 22:05
	3-5km W	Heard	9	Burst	Undetermined	HMG	17-Nov,
About 7.5km WNW of Horlivka (non-government-	2-3km SW	Heard	2	Explosion	Undetermined	N/K	22:12-22:21 18-Nov,
controlled, 39km NE of Donetsk) About 1km NW of the railway station in	3-4km W	Heard	1	Explosion	Undetermined	N/K	10:14-10:17 18-Nov, 09:13
Yasynuvata (non-government-controlled, 16km NE of Donetsk)							
SE part of Avdiivka (government-controlled, 17km N of Donetsk)	2-3km SSE	Heard	1	Explosion	Undetermined	N/K	18-Nov, 09:22

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
About 2km WSW of Zalizne (formerly Artemove,	2-3km E	Heard	2	Burst		Small	18-Nov, 10:01
government-controlled, 42km NE of Donetsk)			<u></u>	ļ		arms	10.11
N 11 (	2-3km S	Heard	2	Explosion	Undetermined	N/K	18-Nov, 10:14
Nevelske (government-controlled, 18km NW of Donetsk)	1-2km SSW	Heard	10	Burst		Small arms	18-Nov, 10:43
	1-2km SSW	Heard	1	Explosion	Undetermined	N/K	18-Nov, 10:43
About 1km E of Holmivskyi (non-government-	5-7km SE	Heard	2	Explosion	Undetermined	N/K	18-Nov,
controlled, 49km NE of Donetsk)	1.01 NE	1	+_	- 1 .		3.7/77	12:15-12:19
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	1-2km NE	Heard	3	Explosion	Undetermined	N/K	18-Nov, 11:43-11:44
	1-2km NE	Heard	1	Explosion	Undetermined	N/K	18-Nov, 12:03
	2-3km NE	Heard	4	Explosion	Undetermined	N/K	18-Nov, 12:06-12:08
	2-3km SSW	Heard	1	Explosion	Undetermined	N/K	18-Nov, 12:06
About 2.5km SSE of Lomakyne (government-controlled, 93km S of Donetsk)	N/K E	Heard	1	Explosion	Undetermined	N/K	18-Nov, 09:52
Pavlopil (government-controlled, 84km S of Donetsk)	1-2km SW	Heard	2	Explosion	Undetermined	N/K	18-Nov, 10:47
About 2km NE of Chernenko (government-	2-3km NNW	Heard	4	Burst	+	HMG	18-Nov, 10:12
controlled, 86km S of Donetsk)	2-3km NNW	Heard	38	Shot		Small	18-Nov,
						arms	10:12-10:24
	2-3km NW	Heard	2	Shot		Small	18-Nov,
" 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1	2.01 E	77 1	11	P 1 1		arms	10:12-10:24
Chernenko (government-controlled, 86km S of Donetsk)	2-3km E 3-5km SSE	Heard Heard	11	Explosion Explosion	Undetermined Undetermined	N/K N/K	18-Nov, 11:58 18-Nov, 12:34
SMM camera on N edge of Popasna (government-	3-5km SSE 4-5km E	Recorded	1	Explosion	Undetermined Undetermined (assessed as outside	N/K N/K	18-Nov, 12:34 17-Nov, 20:28
controlled, 69km W of Luhansk)				•	the disengagement area near Zolote)		
	3-4km ESE	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	17-Nov, 21:47
	3-5km SE	Recorded	3	Projectile	SSW to NNE	N/K	17-Nov, 22:04
	3-5km SE	Recorded	1	Explosion	Undetermined	N/K	17-Nov, 22:05
	3-5km SE	Recorded	1	Muzzle flash		N/K	17-Nov, 22:22
	3-5km SE	Recorded	1	Projectile	SE to NW (subsequent to previous event)	N/K	17-Nov, 22:22
	3-5km SE	Recorded	1	Muzzle flash		N/K	17-Nov, 22:24
	3-5km SE	Recorded	1	Projectile	SE to NW (subsequent to previous event)	N/K	17-Nov, 22:24
	3-5km SE	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	17-Nov, 22:24
	3-5km SE	Recorded	1	Explosion	Undetermined	N/K	17-Nov, 22:24
	3-5km SE	Recorded	1	Explosion	Undetermined	N/K	17-Nov, 22:40
	3-5km SE	Recorded	1	Projectile	SSW to NNE	N/K	18-Nov, 00:00
	2-5km SE	Recorded	2	Projectile	SW to NE	N/K	18-Nov, 17:55
	2-5km SE	Recorded	2	Projectile	In vertical flight	N/K	18-Nov, 17:55
	2-5km SE	Recorded	3	Projectile	NE to SW	N/K	18-Nov, 17:55
	2-5km SE	Recorded	1	Illumination flare	In vertical flight	N/K	18-Nov, 17:55
SMM camera in Zolote (government-controlled, 60km W of Luhansk)	2-4km E	Recorded	2	Projectile	NW to SE (assessed as outside the disengagement area)	N/K	17-Nov, 21:21
,	2-4km E	Recorded	1	Projectile	S to N (assessed as outside the disengagement area)	N/K	17-Nov, 21:51
	2-4km ESE	Recorded	4	Projectile	In vertical flight (assessed as outside the disengagement area)	N/K	17-Nov, 22:02
	2-4km ESE	Recorded	1	Explosion	Undetermined (assessed as inside the disengagement area)	N/K	17-Nov, 21:58
Kadiivka (formerly Stakhanov, non-government-	10-15km WNW	Heard	11	Explosion	Undetermined (assessed as outside	N/K	17-Nov,
controlled, 50 km W of Luhansk)				•	the disengagement area near Zolote)		20:20-20:35
	10-15km NW	Heard	3	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	17-Nov, 20:20-20:35
	10-14km NNW	Heard	1	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	17-Nov, 20:20-20:35
	14-16km N	Heard	1	Explosion	Undetermined	N/K	17-Nov, 20:20-20:35
	10-15km WNW	Heard	12	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	17-Nov, 22:00-22:15
	10-15km WNW	Heard	20	Burst	Undetermined (assessed as outside	HMG	17-Nov,
			$\perp$		the disengagement area near Zolote)		22:00-22:15

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	10-15km NW	Heard	5	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	17-Nov, 22:00-22:15
	10-15km NW	Heard	30	Burst	Undetermined (assessed as outside the disengagement area near Zolote)	HMG	17-Nov, 22:00-22:15
	10-15km NNW	Heard	3	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	17-Nov, 22:00-22:15
	10-15km NNW	Heard	4	Burst	Undetermined (assessed as outside the disengagement area near Zolote)	HMG	17-Nov, 22:00-22:15
N edge of Popasna (government-controlled, 69km W of Luhansk)	5-7km SSE	Heard	8	Explosion	Undetermined Undetermined	N/K	17-Nov, 20:46-20:48
w of Lunansk)	2-3km SE	Heard	3	Explosion	Undetermined	N/K	17-Nov, 21:04
	12-15km S	Heard and saw	8	Explosion	Outgoing	Artillery (152mm)	17-Nov, 21:09-21:15
	4-6km E	Heard and saw	8	Explosion	Impact (subsequent to previous event, assessed as outside the disengagement area near Zolote)	Artillery (152mm)	17-Nov, 21:09-21:15
	3-5km E	Heard	5	Burst	Outgoing (assessed as outside the disengagement area near Zolote)	HMG	17-Nov, 21:09-21:15
	10-12km SE	Heard	7	Explosion	Outgoing	Artillery (122mm)	17-Nov, 21:53-22:30
	10-12km E	Heard	7	Explosion	Impact (subsequent to previous event, assessed as inside the disengagement area near Zolote)	Artillery (122mm)	17-Nov, 21:53-22:30
	4-5km E	Heard	9	Burst	Undetermined (assessed as outside the disengagement area near Zolote)	HMG	17-Nov, 21:53-22:30
	10-12km SE	Heard	1	Explosion	Undetermined	N/K	17-Nov, 21:53-22:30
	10-12km SSE	Heard	3	Explosion	Undetermined	N/K	17-Nov, 21:53-22:30
	10-12km ESE	Heard	1	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	17-Nov, 21:53-22:30
	10-12km E	Heard and saw	5	Explosion	Impact (assessed as inside the disengagement area near Zolote)	N/K	17-Nov, 21:53-22:30
	10-12km E	Heard	3	Explosion	Undetermined (assessed as inside the disengagement area near Zolote)	N/K	17-Nov, 21:53-22:30
	4-5km E	Heard	10	Explosion	Impact (assessed as outside the disengagement area near Zolote)	AGL	17-Nov, 21:53-22:30
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	17-Nov, 23:11
	5-7km SE	Heard	2	Explosion	Undetermined	N/K	17-Nov, 23:24
	5-7km SE	Heard	9	Explosion	Undetermined	N/K	18-Nov, 00:00-00:04
	3-5km SE	Heard	6	Burst	Outgoing	HMG	18-Nov, 04:38
500m SE of Kalynove (non-government-controlled, 60km W of Luhansk)	8-10km W	Heard	3	Explosion	Undetermined	N/K	18-Nov, 09:03-09:10
2km S of Zolote-5/Mykhailivka (non-government-controlled, 60km W of Luhansk)	5-7km NE	Heard	10	Shot	Undetermined	HMG	18-Nov, 09:32-09:35
	5-7km NE	Heard	1	Explosion	Outgoing	N/K	18-Nov, 09:32-09:35
	5-7km NE	Heard	4	Burst	Undetermined	Small arms	18-Nov, 09:32-09:35
About 3km N of Pervomaisk (non-government-controlled, 58km W of Luhansk)	5-7km WSW	Heard	4	Burst	Undetermined (assessed as outside the disengagement area near Zolote)	Small arms	18-Nov, 09:56
3km NW of Almazna (non-government-controlled, 55km W of Luhansk)	8-10km WSW	Heard	3	Explosion	Undetermined	N/K	18-Nov, 10:26-10:29
Stanytsia Luhanska (government-controlled, 16km NE of Luhansk)	6-8km NW	Heard	8	Explosion	Undetermined	N/K	18-Nov, 10:44-10:47
700m SW of Malomykolaivka (non-government-controlled, 36km SW of Luhansk)	10-15km S	Heard	7	Explosion	Undetermined	N/K	18-Nov, 10:40-11:05
3km NNE of Stepove (non-government-controlled, 27km W of Luhansk)	2km NE	Heard	3	Burst	Undetermined	Small arms	18-Nov, 12:01-12:03
Yuzhna-Lomuvatka (non-government-controlled, 60km W of Luhansk)	8-10km WNW	Heard	4	Explosion	Undetermined	N/K	18-Nov, 13:20-13:22

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



<sup>&</sup>lt;sup>11</sup> The SMM is deployed to ten locations throughout Ukraine – Kherson, Odessa, Lviv, Ivano-Frankivsk, Kharkiv, Donetsk, Dnipro, Chernivtsi, Luhansk and Kyiv – as per Permanent Council Decision 1117 of 21 March 2014. This map of eastern Ukraine is meant for illustrative purposes and indicates locations mentioned in the report, as well as those where the SMM has offices (monitoring teams, patrol hubs and forward patrol bases) in Donetsk and Luhansk regions. (In red: a forward patrol base from which SMM staff 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).