



Daily Report 256/2021

1 November 2021¹

Summary

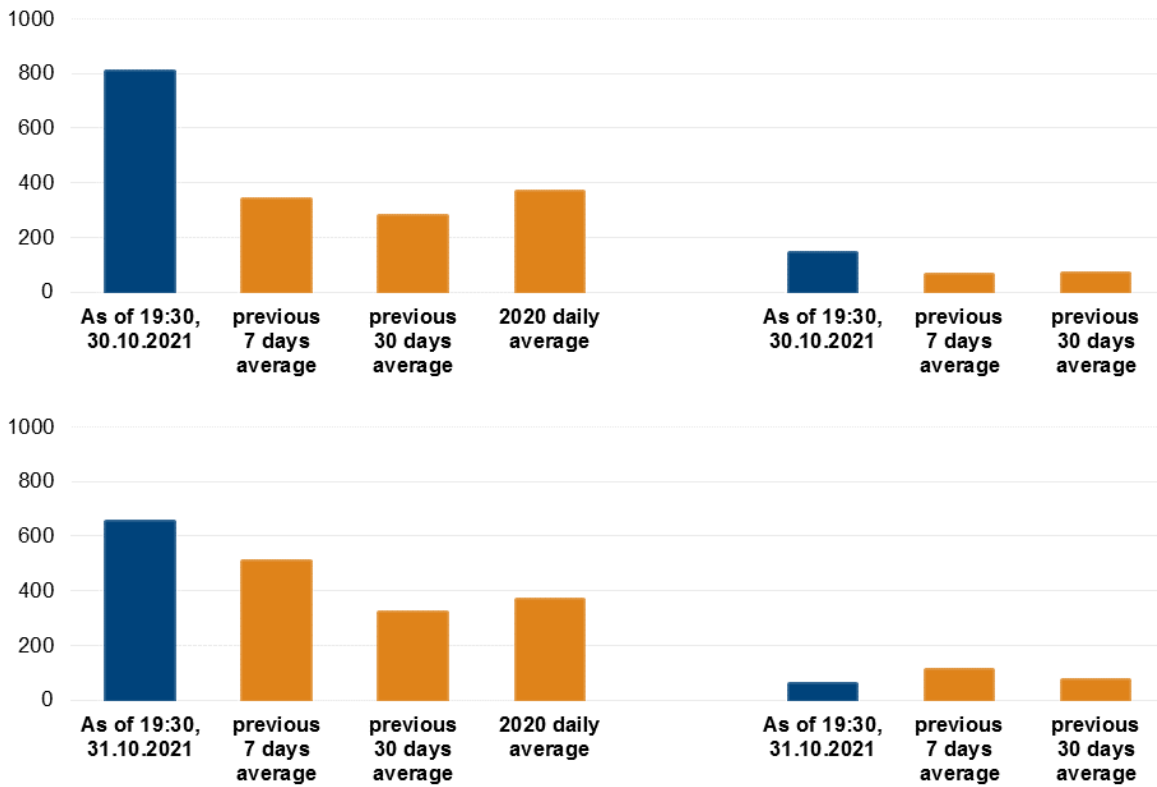
- In Donetsk region, between the evenings of 29 and 31 October, the SMM recorded 988 ceasefire violations, including 139 explosions. In the previous reporting period, it recorded 321 ceasefire violations in the region.
- In Luhansk region, between the evenings of 29 and 31 October, the Mission recorded 471 ceasefire violations, including 62 explosions. In the previous reporting period, it recorded 436 ceasefire violations in the region.
- The SMM followed up on reports of recent damage to five civilian properties in government-controlled Hranitne, Donetsk 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 three entry-exit checkpoints and three corresponding checkpoints of the armed formations in Luhansk region.
- The SMM monitored the security situation in east and south-east Kherson region.
- The Mission's freedom of movement continued to be restricted, including at checkpoints of the armed formations near the disengagement areas near Zolote and Petrivske, as well as at a railway station and a border crossing point outside government control near Dovzhanske, Luhansk region. Its unmanned aerial vehicles (UAV) again experienced multiple instances of probable jamming and jamming.*

¹ Based on information from the Monitoring Teams as of 19:30, 31 October 2021. All times are in Eastern European Time.

Ceasefire violations²

Number of recorded ceasefire violations³

Number of recorded explosions⁴



² For a complete breakdown of ceasefire violations, please see the annexed table. During the reporting period, the SMM cameras in Svitlodarsk were not operational during part of the reporting period and weather conditions limited the observation capabilities of some of the other SMM cameras.

³ Including explosions.

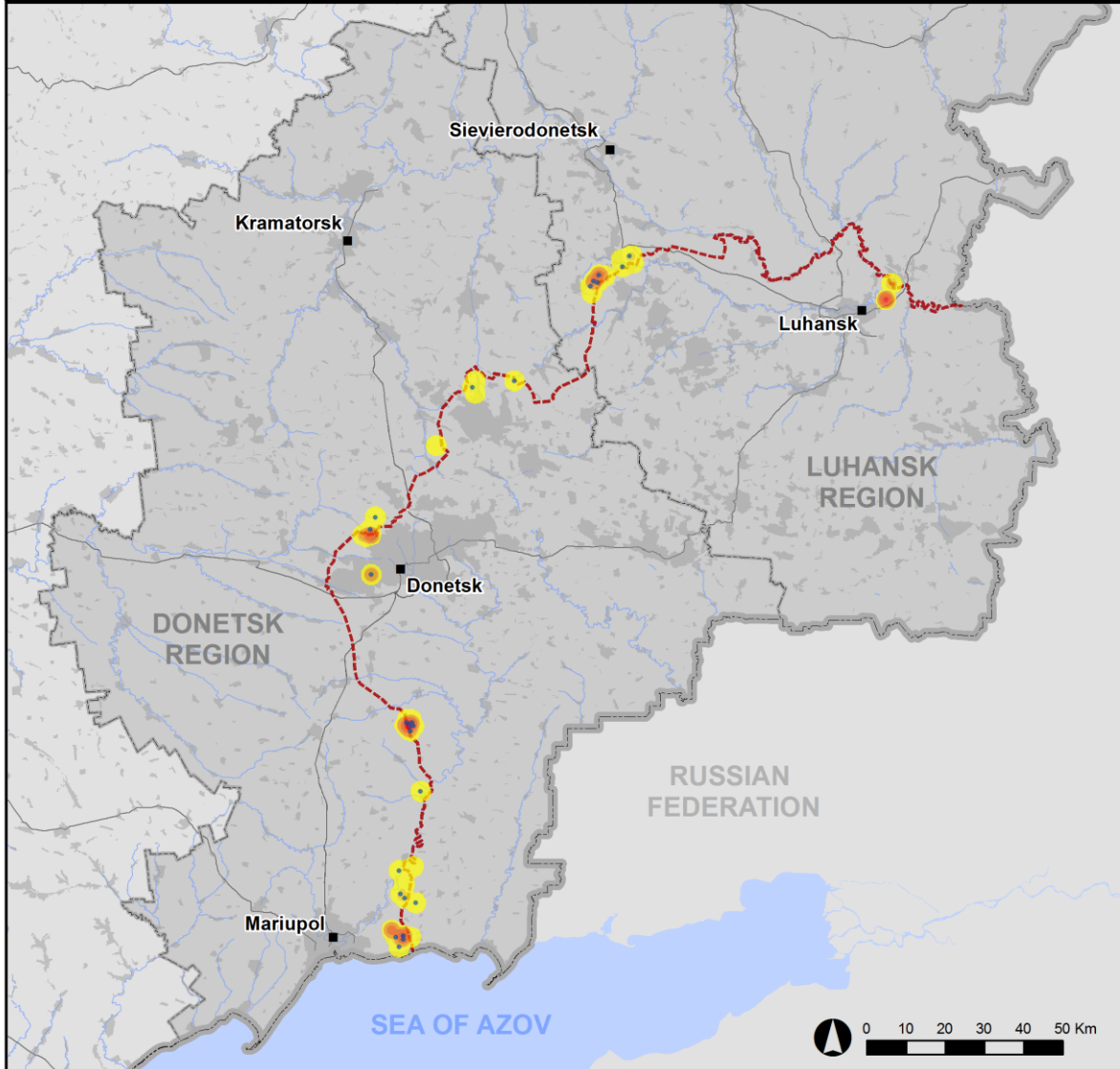
⁴ Including from unidentified weapons.

Map of recorded ceasefire violations

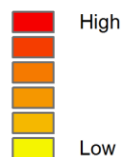


Organization for Security and
Co-operation in Europe
Special Monitoring Mission to Ukraine

Ceasefire violations observed by the SMM 30-31 October 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: 01/11/2021

In Donetsk region, between the evenings of 29 and 31 October, the SMM recorded 988 ceasefire violations, including 139 explosions (five impacts and 134 undetermined). The majority of ceasefire violations occurred inside and south of the disengagement area near Petrivske (non-government-controlled, 41km south of Donetsk) on the evening and night of 29-30 October (see below), as well as in areas north of Shyrokyne (government-controlled, 100km south of Donetsk) on the evenings and nights of 29-30 and 30-31, and during the day on 31 October, as well as in areas west of the Oktiabr mine (non-government-controlled, 9km north-west of Donetsk city centre) on the evening of 31 October. In the [previous reporting period](#), the Mission recorded 321 ceasefire violations in the region, the majority of which also occurred in areas north of Shyrokyne.

In Luhansk region, between the evenings of 29 and 31 October, the SMM recorded 471 ceasefire violations, including 62 explosions (20 impacts and 42 undetermined). The majority of ceasefire violations occurred in an area south-west of the disengagement area near Stanytsia Luhanska (government-controlled, 16km north-east of Luhansk) during the day on 31 October, assessed as a live-fire training 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 (see below), and in areas west-south-west of the disengagement area near Zolote (government-controlled, 60km west of Luhansk) during the day on 30 October (see below). In the [previous reporting period](#), the Mission recorded 436 ceasefire violations in the region, almost all of which occurred in areas close to the disengagement area near Zolote.

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 71,365 ceasefire violations in both Donetsk and Luhansk regions (including 19,345 explosions, 15,653 projectiles in flight, 352 muzzle flashes, 294 illumination flares and at least 35,721 bursts and shots).

The Mission followed up on damage to five civilian properties and observed several craters in Hranitne, Donetsk region

On 29 October, the Mission followed up on reports of damage to five civilian properties in Hranitne (government-controlled, 60km south of Donetsk) alleged to have taken place on 26 October. (For previous observations of damage in the area, see SMM Daily Reports of [28 October 2021](#) and [29 October 2021](#).)

At 54 Hretska Street, in the northern part of Hranitne at an inhabited single-storey house, the SMM saw a hole in a north facing entrance door and a second hole in a north facing wall of the entrance hall. About 10m north-north-west of the house, on a north-east facing wall of the house's summer kitchen, the Mission observed a missing window and a partially missing upper beam above the window, broken planks over the gable of the building's roof and multiple holes in the ceiling. At a brick barn, just north-north-west of the same house, the SMM observed a collapsed east-facing back wall on the ground, and a large hole in the barn's west-facing front wall with rubble underneath. Near the barn, it also saw damage to a fence made from corrugated panels. About 12m north of the same house, the Mission saw a deformed metal garage with partly torn metal panels and at least 20 holes on its south-west facing wall. The north-east facing metal wall was bent out of shape and had at least 50 holes in it. Inside the garage, the SMM observed two metal panels with at least 20 holes and at least ten holes in the garage's north-facing back wall. It also saw about 20 holes in the panels of a metal fence about 30m

south-east of the same house and a destroyed chicken hut about 10m north-north-west of the same house.

The SMM assessed all damage as recent and caused by probable 120mm mortar rounds and shrapnel, but was unable to assess the direction of fire.

At 5 Shevchenka Street in the north-eastern part of Hranitne, the SMM saw a crater (2m in diameter) in soft soil on the north-eastern edge of a paved road about 5-6m south-west of an abandoned single-storey house and metal fragments assessed as pieces of shrapnel inside the crater. About 5m north-east of the crater, the Mission observed damage to a layer of plaster on a south-west facing wall of the abandoned house. The SMM also saw shrapnel marks in the trunks of several trees near the crater.

At 6 Shevchenka Street, about 10m south-west of the crater, the Mission observed that all five windows on the north-east facing wall of an inhabited single-storey house were severely damaged and four out of five glass panels of the windows were shattered.

The SMM assessed the crater and the damage to both houses and the trees as recent and caused by a probable 120mm mortar round.

At 7 Shevchenka Street, about 60m north-north-east of the abovementioned crater, in a backyard about 40m east-north-east of an inhabited two-storey house, the Mission observed a crater (about 2.5m in diameter) and metal fragments assessed as pieces of shrapnel inside the crater. The SMM also saw at least 30 holes on the metal parts of a seeding machine located about 35m north-north-west of the crater, as well as broken branches and shrapnel marks on a tree about 40m north-north-west of the crater. The Mission assessed the crater and the damage as recent and caused by a probable 122mm round from a north-eastern direction.

At 17 Voropaieva Street, about 15m south-east of the aforementioned crater, the SMM observed another crater (about 2.5m in diameter) in the garden of an uninhabited single-storey house and metal fragments assessed as shrapnel inside the crater. About 40m south-east of the crater, the Mission saw shattered glass panes of the house's north-west facing windows and shrapnel marks on its north-west facing wall. The SMM assessed the crater and the damage as recent and caused by a probable 120mm mortar round.

On 30 October, the SMM followed up on reports of damage to two civilian properties in the north-eastern part of Hranitne.

In a field adjacent to Chervonykh Partyzan Street, the Mission observed a crater (about 1m in diameter). The SMM also saw shrapnel marks on an electrical pole about 20m north of the crater and ripped electrical cables about 20m north-west of the crater. The Mission assessed the crater and the damage to the electrical pole and the cables as recent and caused by a probable 82mm mortar.

About 750m west-south-west of the crater, in a field about 2.5m north-west of Karla Marksa Street, the SMM observed a crater (about 1m in diameter). About 7.5m north of the crater, it also saw a damaged tree lying on the ground. The Mission assessed the crater and the damage to the tree as recent and caused by a probable 82mm mortar.

Disengagement areas near Stanytsia Luhanska, Zolote and Petrivske⁵

During the day on 30 October, while positioned on the western edge of Stanytsia Luhanska, the Mission heard 15 shots of small-arms fire at an assessed range of 1-2km south-south-west. During the day on 31 October, while positioned inside the **disengagement area near Stanytsia Luhanska**, the SMM heard 229 bursts and shots of heavy-machine-gun fire at an assessed range of 4-6km south-west, assessed as a live-fire training exercise in violation of the decision of the TCG of 3 March 2016 that prohibits the conduct of live-fire training in the security zone. All these ceasefire violations were assessed as outside the disengagement area but within 5km of its periphery.

On 30 and 31 October, inside the disengagement area near Stanytsia Luhanska, 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).

On the evening of 29 October, the SMM camera in Popasna (government-controlled, 69km west of Luhansk) recorded five undetermined explosions, five projectiles in flight and one illumination flare at an assessed range of 4-6km east-south-east. On the evening and night of 29-30 October and the evening of 30 October, while on the northern edge of Popasna, the Mission heard 46 explosions (20 impacts, also seen, and 26 undetermined) and 134 bursts of heavy-machine-gun and small-arms fire, and saw one illumination flare at assessed ranges of 3-6km east and east-south-east. On the evenings of 30 and 31 October, the SMM camera in Zolote recorded one undetermined explosion and 15 projectiles in flight at assessed ranges of 1-6km east-north-east, east and east-south-east. During the day on 31 October, while positioned at two locations near the **disengagement area near Zolote**, the Mission heard three undetermined explosions and seven bursts of heavy-machine-gun fire. All these ceasefire violations were assessed as outside the disengagement area but within 5km of its periphery.

On 30 October, while positioned inside the area, the SMM saw a [previously reported](#) metal box assessed as an ammunition box on the western edge of the road, about 70m south-south-east of the railway bridge and 1km south of the area’s northern edge. The Mission left the area without passing the box.*

On the same day, at the disengagement area’s southern edge, two members of the armed formations (wearing armbands with “JCCC” written on them) denied the Mission passage north toward the permanently installed vehicle control gate across road T-1316 in non-government-controlled areas, 350m north of the area’s southern edge, citing “the SMM’s safety”.*

On 30 and 31 October, 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). 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, were closed.

On the evening and night of 29-30 October, the SMM camera about 2km east of Bohdanivka (government-controlled, 41km south-west of Donetsk) recorded 19 undetermined explosions and 297 projectiles in flight at assessed ranges of 1-4km east, east-south-east and south-east,

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

assessed as inside the **disengagement area near Petrivske**, as well as seven explosions (one impact and six undetermined) and 23 projectiles in flight at an assessed range of 3-5km south-east, assessed as outside the area but within 5km of its periphery. On the evening and night of 29-30 October, the SMM camera in Petrivske recorded 12 explosions (two impacts and ten undetermined) and 27 projectiles in flight at an assessed range of 0.2km-2km south-south-west, assessed as inside the area, as well as four projectiles in flight and one muzzle flash at an assessed range of 2-4km south-south-west, unable to be assessed as inside or outside the area. On the night of 30-31 October, the SMM camera about 2km east of Bohdanivka recorded nine projectiles in flight at an assessed range of 1-3km east-south-east, assessed as inside the area.

During the day on 30 and 31 October, while positioned near the disengagement area, the Mission observed a calm situation.

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 Mission saw six anti-tank guns in government-controlled areas of Donetsk region, including near a residential area, and one surface-to-air missile system in a residential area in a government-controlled area of Luhansk region.

Beyond withdrawal lines but outside designated storage sites, the SMM observed 24 tanks at a railway station and seven howitzers in a residential area in a government-controlled area of Donetsk region. (For further information, see the table below.)

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

The Mission observed four armoured combat vehicles in a non-government-controlled area of Luhansk region. (For further information, see the table below.)

On 31 October, while positioned in the central part of Hranitne, the Mission saw a non-SMM mini-unmanned aerial vehicle (UAV) flying in an easterly direction, despite the ban on the operation of any aerial vehicles included in the 22 July 2020 agreement on Measures to strengthen the ceasefire.

Recent damage observed near non-government-controlled Boikivske, Donetsk region

On 28 October, in a field about 1.5km south-east of Boikivske (formerly Telmanove, non-government-controlled, 67km south-east of Donetsk), an SMM long-range UAV spotted a strip (about 20m in length and about 1m in width) of charred and churned soil (not previously reported and not seen in imagery from 15 October 2021), assessed as recent. The Mission could not determine the cause of these marks in the soil. (For previous observations of craters in the same area, see [SMM Daily Report of 30 October 2021](#).)

Presence of mines near Zoloti Pisky and Lozove, Donetsk region

On 25 October, about 3km south-west of Zoloti Pisky (government-controlled, 12km north-west of Donetsk), an SMM mini-UAV spotted 27 previously reported anti-tank mines laid across both lanes of a highway leading to Lozove (non-government-controlled, 13km west of

Donetsk), assessed as belonging to the Ukrainian Armed Forces. (For previous observations in the area, see [SMM Daily Report 18 March 2021](#).)

On the same highway, about 4km north of Lozove, the same UAV spotted 19 previously reported anti-tank mines laid across both its lanes, assessed as belonging to the armed formations. (For previous observations in the area, see [SMM Daily Report 18 March 2021](#).)

Also on the same highway, about 3km north of Lozove, the same UAV spotted 68 previously reported anti-tank mines laid across both its lanes, assessed as belonging to the armed formations. (For previous observations, see [SMM Daily Report of 24 March 2021](#).)

SMM facilitation of operation of critical civilian infrastructure

On 30 and 31 October, the Mission continued to facilitate the operation of the Donetsk Filtration Station (15km north of Donetsk).

Situation at entry-exit checkpoints and corresponding checkpoints

On 30 and 31 October, in Luhansk region, the SMM observed that the entry-exit checkpoint (EECP) near Stanytsia Luhanska and the corresponding checkpoint of the armed formations south of the Stanytsia Luhanska bridge were open, with people queueing to travel in both directions.

On both days, 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 control⁶

On 30 October, while at the Chervona Mohyla railway station in Voznesenivka (formerly Chervonopartyzansk, 65km south-east of Luhansk), the SMM observed at least 60 covered cargo railway cars and a locomotive. After about seven minutes, two members of the armed formations told the Mission to leave the area.*

On the same day, while at a border crossing point near Dovzhanske (84km south-east of Luhansk), the Mission saw no traffic entering or exiting Ukraine. After about nine minutes, a member of the armed formations told the Mission to leave the area.*

Security situation in east and south-east Kherson region

From 25 to 31 October, 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 Henichesk (176km east of Kherson), as well as along the North Crimean canal. While monitoring these areas, the Mission observed no change in the security situation.

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

The 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.

Denials:

- On 30 October, at a checkpoint about 2.5km north of Petrivske (non-government-controlled, 41km south of Donetsk), an armed member of the armed formations [again](#) denied the Mission passage south towards the disengagement area near Petrivske, citing “the SMM's safety”.
- On the same day, at the southern edge of the disengagement area near Zolote (government-controlled, 60km west of Luhansk), a member of the armed formations (wearing an armband with “JCCC” written on it) denied the Mission passage north, citing “the SMM's safety”. (See above.)
- On the same day, at the Chervona Mohyla railway station in Voznesenivka (formerly Chervonopartyzansk, non-government-controlled, 65km south-east of Luhansk), two members of the armed formations asked the Mission to leave the area, referring to a lack of prior coordination.
- On the same day, at a border crossing point near Dovzhanske (non-government-controlled, 84km south-east of Luhansk), a member of the armed formations told the SMM to leave the area.
- On 31 October, at a checkpoint near Molodizhne (non-government-controlled, 63km north-west of Luhansk), a member of the armed formations denied the Mission passage west towards Popasna (government-controlled, 69km west of Luhansk), referring to a lack of prior coordination and “orders from his 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.

Other impediments:⁷⁸

- On 30 October, while conducting two test flights, an SMM long-range UAV experienced GPS signal interference, assessed as caused by probable jamming, while flying over areas between government-controlled Novoandriivka (75km north-west of Donetsk) and Kostiantynivka (60km north of Donetsk), between Novoandriivka and Varvarivka (81km north-west of Donetsk), between Torske (67km north-west of Donetsk) and Pervomaiske (17km north-west of Donetsk) and between Novoandriivka and Varvarivka. The same UAV experienced dual GPS signal interference, assessed as caused by jamming, while flying over areas between Kostiantynivka and Novoandriivka and between Pervomaiske and Novoandriivka.
- On the same day, an SMM mid-range UAV experienced GPS signal interference, assessed as caused by probable jamming, while flying over areas near Orlivske (government-controlled, 82km south of Donetsk).
- On the same day, an SMM mini-UAV experienced GPS signal interference, assessed as caused by probable jamming, while flying over areas near Orlivske.
- On 31 October, 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 Rohanske (government-controlled, 79km north-west of Donetsk) and Kostiantynivka and between Rusyn Yar (government-controlled, 55km north-west of Donetsk) and Rohanske. The same UAV experienced dual GPS signal interference, assessed as caused by jamming, while flying over areas between Kostiantynivka and Rusyn Yar.
- On the same day, SMM mini-UAVs experienced GPS signal interference, assessed as caused by probable jamming, during four flights: twice over areas near Zoria (government-controlled, 40km north-west of Donetsk), once over areas near Oleksandropil (government-controlled, 43km north of Donetsk) and once over areas near Zelene Pole (government-controlled, 40km north-west of Donetsk).

⁷ 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.

⁸ In the [SMM Daily Report of 30 October 2021](#), the first sentence in the other impediments section should have read "On 29 October, an SMM mid-range UAV", instead of "On 20 October, an SMM mid-range UAV". The following impediments in the other impediments section also occurred on 29 October.

Tables of weapons

Weapons in violation of withdrawal lines

Date	No. of weapons	Type of weapon	Location	Source of observation
Government-controlled areas				
30/10/2021	1	Anti-tank gun (MT-12 <i>Rapira</i> , 100mm)	Near Oleksandro-Kalynove (47km north of Donetsk)	Patrol
	5		Near a residential area of Illinivka (formerly Illicha, 56km north of Donetsk)	
31/10/2021	1	Surface-to-air missile system (9K33 <i>Osa</i>)	In a residential area of Raihorodka (34km north-west of Luhansk)	

Weapons beyond withdrawal lines but outside designated storage sites

Date	No. of weapons	Type of weapon	Location	Source of observation
Government-controlled areas				
31/10/2021	24	Tank (T-72)	At a railway station in Kostiantynivka (60km north of Donetsk)	Patrol
	7	Probable self-propelled howitzer (2S1 <i>Gvozdika</i> , 122mm)	In a residential area of Druzhkivka (72km north of Donetsk)	

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

Date	No. of weapons	Type of weapon	Location	Source of observation
Non-government-controlled areas				
30/10/2021	4	Infantry fighting vehicle (one BMP-1 and three BMP-2)	Near Dovhe (22km north-west of Luhansk)	Patrol

⁹ 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 31 October 2021¹⁰

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera 2km E of Bohdanivka (government-controlled, 41km SW of Donetsk)	2-4km SE	Recorded	2	Projectile	SW to NE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 19:52
	3-5km SE	Recorded	3	Projectile	SW to NE (assessed as outside the disengagement area near Petrivske)	N/K	29-Oct, 19:53
	3-5km SE	Recorded	1	Projectile	SW to NE (assessed as outside the disengagement area near Petrivske)	N/K	29-Oct, 19:54
	3-5km SE	Recorded	1	Projectile	SW to NE (assessed as outside the disengagement area near Petrivske)	N/K	29-Oct, 19:54
	3-5km SE	Recorded	1	Explosion	Impact (subsequent to the previous event, assessed as outside the disengagement area near Petrivske)	N/K	29-Oct, 19:54
	2-4km ESE	Recorded	1	Projectile	SW to NE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 20:05
	3-5km SE	Recorded	5	Explosion	Undetermined (assessed as outside the disengagement area near Petrivske)	N/K	29-Oct, 20:07
	3-5km SE	Recorded	1	Projectile	SW to NE (assessed as outside the disengagement area near Petrivske)	N/K	29-Oct, 20:07
	2-4km ESE	Recorded	1	Explosion	Undetermined (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 20:09
	3-5km SE	Recorded	2	Projectile	SW to NE (assessed as outside the disengagement area near Petrivske)	N/K	29-Oct, 20:09
	3-5km SE	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area near Petrivske)	N/K	29-Oct, 20:09
	2-4km ESE	Recorded	16	Projectile	N to S (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 21:13
	2-4km ESE	Recorded	1	Explosion	Undetermined (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 21:13
	2-4km ESE	Recorded	8	Projectile	N to S (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 21:14
	2-4km ESE	Recorded	12	Projectile	N to S (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 21:18
	1-3km SE	Recorded	10	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 21:29
	1-3km ESE	Recorded	2	Explosion	Undetermined (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 21:29
	3-5km SE	Recorded	2	Projectile	SW to NE (assessed as outside the disengagement area near Petrivske)	N/K	29-Oct, 21:29
	3-5km SE	Recorded	11	Projectile	SW to NE (assessed as outside the disengagement area near Petrivske)	N/K	29-Oct, 21:52
	3-5km SE	Recorded	3	Projectile	SW to NE (assessed as outside the disengagement area near Petrivske)	N/K	29-Oct, 21:59
1-3km E	Recorded	1	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:09	
1-3km SE	Recorded	26	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:09	
1-3km SE	Recorded	3	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:09	

¹⁰ 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
	1-3km ESE	Recorded	3	Explosion	Undetermined (subsequent to previous event, assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:09
	2-4km SE	Recorded	9	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:10
	3-5km ESE	Recorded	5	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:11
	1-3km SE	Recorded	4	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:11
	2-4km ESE	Recorded	2	Explosion	Undetermined (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:11
	2-4km ESE	Recorded	1	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:12
	1-3km SE	Recorded	7	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:12
	2-4km ESE	Recorded	5	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:13
	2-4km SE	Recorded	7	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:13
	2-4km ESE	Recorded	2	Explosion	Undetermined (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:13
	1-3km SE	Recorded	12	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:14
	1-3km ESE	Recorded	1	Explosion	Undetermined (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:14
	2-4km ESE	Recorded	5	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:15
	2-4km SE	Recorded	14	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:15
	2-4km ESE	Recorded	3	Explosion	Undetermined (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:15
	2-4km ESE	Recorded	1	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:16
	2-4km SE	Recorded	14	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:16
	2-4km ESE	Recorded	2	Explosion	Undetermined (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:16
	2-4km ESE	Recorded	2	Explosion	Undetermined (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:17
	2-4km ESE	Recorded	14	Projectile	SW to NE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:18
	2-4km SE	Recorded	5	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:18
	2-4km ESE	Recorded	1	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:19
	2-4km SE	Recorded	6	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:19
	2-4km ESE	Recorded	1	Projectile	NNE to SSW (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:21
	2-4km ESE	Recorded	2	Projectile	NNE to SSW (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:35
	2-4km ESE	Recorded	11	Projectile	N to S (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:43
	2-4km ESE	Recorded	8	Projectile	NNE to SSW (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:44
	2-4km SE	Recorded	1	Projectile	NNE to SSW (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:44
	2-4km ESE	Recorded	18	Projectile	N to S (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 23:21

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	2-4km ESE	Recorded	2	Projectile	NNE to SSW (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 23:22
	2-4km ESE	Recorded	22	Projectile	N to S (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 23:23
	2-4km SE	Recorded	1	Projectile	SW to NE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 23:23
	2-4km ESE	Recorded	1	Projectile	N to S (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 23:24
	2-4km SE	Recorded	1	Projectile	N to S (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 23:24
	2-4km ESE	Recorded	20	Projectile	N to S (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 23:25
	2-4km ESE	Recorded	8	Projectile	N to S (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 23:28
	2-4km ESE	Recorded	6	Projectile	NNE to SSW (assessed as inside the disengagement area near Petrivske)	N/K	30-Oct, 00:08
	2-4km SE	Recorded	2	Projectile	SW to NE (assessed as inside the disengagement area near Petrivske)	N/K	30-Oct, 00:08
	2-4km SE	Recorded	1	Projectile	SW to NE (assessed as inside the disengagement area near Petrivske)	N/K	30-Oct, 00:24
	2-4km E	Recorded	2	Projectile	NNE to SSW (assessed as inside the disengagement area near Petrivske)	N/K	30-Oct, 03:04
	2-4km ESE	Recorded	1	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	30-Oct, 03:43
	2-4km SE	Recorded	1	Projectile	SW to NE (assessed as inside the disengagement area near Petrivske)	N/K	30-Oct, 04:01
	2-4km SE	Recorded	2	Projectile	SW to NE (assessed as inside the disengagement area near Petrivske)	N/K	30-Oct, 04:43
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	2-4km SE	Recorded	1	Projectile	In vertical flight	N/K	29-Oct, 18:09
	2-4km SSE	Recorded	3	Projectile	SW to NE	N/K	29-Oct, 18:10
	2-4km SSE	Recorded	1	Projectile	In vertical flight	N/K	29-Oct, 18:10
SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk)	2-4km ESE	Recorded	1	Projectile	WSW to ENE	N/K	29-Oct, 18:54
	2-4km ESE	Recorded	1	Muzzle flash		N/K	29-Oct, 18:54
	2-4km ESE	Recorded	1	Projectile	WSW to ENE	N/K	29-Oct, 18:55
	2-4km ESE	Recorded	1	Explosion	Undetermined	N/K	29-Oct, 18:55
	2-4km ESE	Recorded	1	Illumination flare	In vertical flight	N/K	29-Oct, 19:09
	2-4km ESE	Recorded	1	Projectile	N to S	N/K	29-Oct, 19:22
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	3-5km ESE	Recorded	1	Illumination flare	In vertical flight	N/K	29-Oct, 18:59
	3-5km ENE	Recorded	1	Projectile	In vertical flight	N/K	29-Oct, 19:07
SMM camera at Oktiabr mine (non-government-controlled, 9km NW of Donetsk city centre)	4-6km W	Recorded	2	Projectile	S to N	N/K	29-Oct, 20:11
	4-6km W	Recorded	15	Projectile	N to S	N/K	29-Oct, 21:30
SMM camera in Petrivske (non-government-controlled, 41km S of Donetsk)	0.2-1.5km SSW	Recorded	9	Projectile	W to E (assessed as inside the disengagement area)	N/K	29-Oct, 21:29
	1.5-2km SSW	Recorded	3	Explosion	Undetermined (assessed as inside the disengagement area)	N/K	29-Oct, 21:31
	0.2-1.5km SSW	Recorded	4	Projectile	W to E (assessed as inside the disengagement area)	N/K	29-Oct, 22:09
	0.2-1.5km SSW	Recorded	4	Explosion	Undetermined (assessed as inside the disengagement area)	N/K	29-Oct, 22:09
	0.2-1.5km SSW	Recorded	1	Projectile	W to E (assessed as inside the disengagement area)	N/K	29-Oct, 22:10
	0.2-1.5km SSW	Recorded	2	Projectile	W to E (assessed as inside the disengagement area)	N/K	29-Oct, 22:11

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	0.2-1.5km SSW	Recorded	2	Explosion	Undetermined (assessed as inside the disengagement area)	N/K	29-Oct, 22:11
	0.2-1.5km SSW	Recorded	3	Projectile	W to E (assessed as inside the disengagement area)	N/K	29-Oct, 22:13
	0.2-1.5km SSW	Recorded	1	Explosion	Undetermined (assessed as inside the disengagement area)	N/K	29-Oct, 22:13
	0.2-1.5km SSW	Recorded	8	Projectile	W to E (assessed as inside the disengagement area)	N/K	29-Oct, 22:14
	0.2-1.5km SSW	Recorded	2	Projectile	W to E (assessed as inside the disengagement area)	N/K	29-Oct, 22:15
	0.2-1.5km SSW	Recorded	2	Explosion	Impact (subsequent to previous event, assessed as inside the disengagement area)	N/K	29-Oct, 22:15
	2-4km SSW	Recorded	4	Projectile	NE to SW (unable to be assessed if inside or outside the disengagement area)	N/K	30-Oct, 00:07
	2-4km SSW	Recorded	1	Muzzle flash	Unable to be assessed if inside or outside the disengagement area	N/K	30-Oct, 00:07
SMM camera 1km SW of Shyrokyne (government-controlled, 100km Sof Donetsk)	3-5km N	Recorded	3	Projectile	SE to NW	N/K	29-Oct, 18:50
	3-5km N	Recorded	2	Projectile	SE to NW	N/K	29-Oct, 18:52
	3-5km N	Recorded	1	Muzzle flash		N/K	29-Oct, 18:53
	3-5km N	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	29-Oct, 18:53
	3-5km N	Recorded	1	Muzzle flash		N/K	29-Oct, 18:53
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	29-Oct, 18:53
	3-5km N	Recorded	1	Projectile	WSW to ENE	N/K	29-Oct, 18:54
	3-5km N	Recorded	2	Explosion	Undetermined	N/K	29-Oct, 18:55
	3-5km N	Recorded	1	Projectile	ESE to WNW	N/K	29-Oct, 18:55
	3-5km N	Recorded	4	Projectile	E to W	N/K	29-Oct, 18:58
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	29-Oct, 19:05
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	29-Oct, 19:32
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	29-Oct, 19:38
	4-6km N	Recorded	4	Projectile	E to W	N/K	29-Oct, 19:38
	4-6km NNE	Recorded	1	Projectile	E to W	N/K	29-Oct, 19:41
	4-6km N	Recorded	2	Projectile	E to W	N/K	29-Oct, 19:46
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	29-Oct, 19:49
	4-6km N	Recorded	1	Muzzle flash		N/K	29-Oct, 19:50
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	29-Oct, 19:50
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	29-Oct, 19:55
	4-6km N	Recorded	1	Projectile	E to W	N/K	29-Oct, 19:55
	4-6km N	Recorded	3	Explosion	Undetermined	N/K	29-Oct, 19:56
	4-6km N	Recorded	1	Illumination flare	In vertical flight	N/K	29-Oct, 19:56
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	29-Oct, 19:59
	4-6km N	Recorded	1	Projectile	E to W	N/K	29-Oct, 19:59
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	29-Oct, 20:01
	4-6km N	Recorded	2	Projectile	W to E	N/K	29-Oct, 20:01
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	29-Oct, 20:09
	4-6km NNW	Recorded	1	Explosion	Undetermined	N/K	29-Oct, 20:09
	4-6km N	Recorded	8	Projectile	W to E	N/K	29-Oct, 20:13
	4-6km NNW	Recorded	1	Muzzle flash		N/K	29-Oct, 20:20
	4-6km NNW	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	29-Oct, 20:20
4-6km N	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	29-Oct, 20:20	
4-6km NNW	Recorded	1	Muzzle flash		N/K	29-Oct, 20:21	

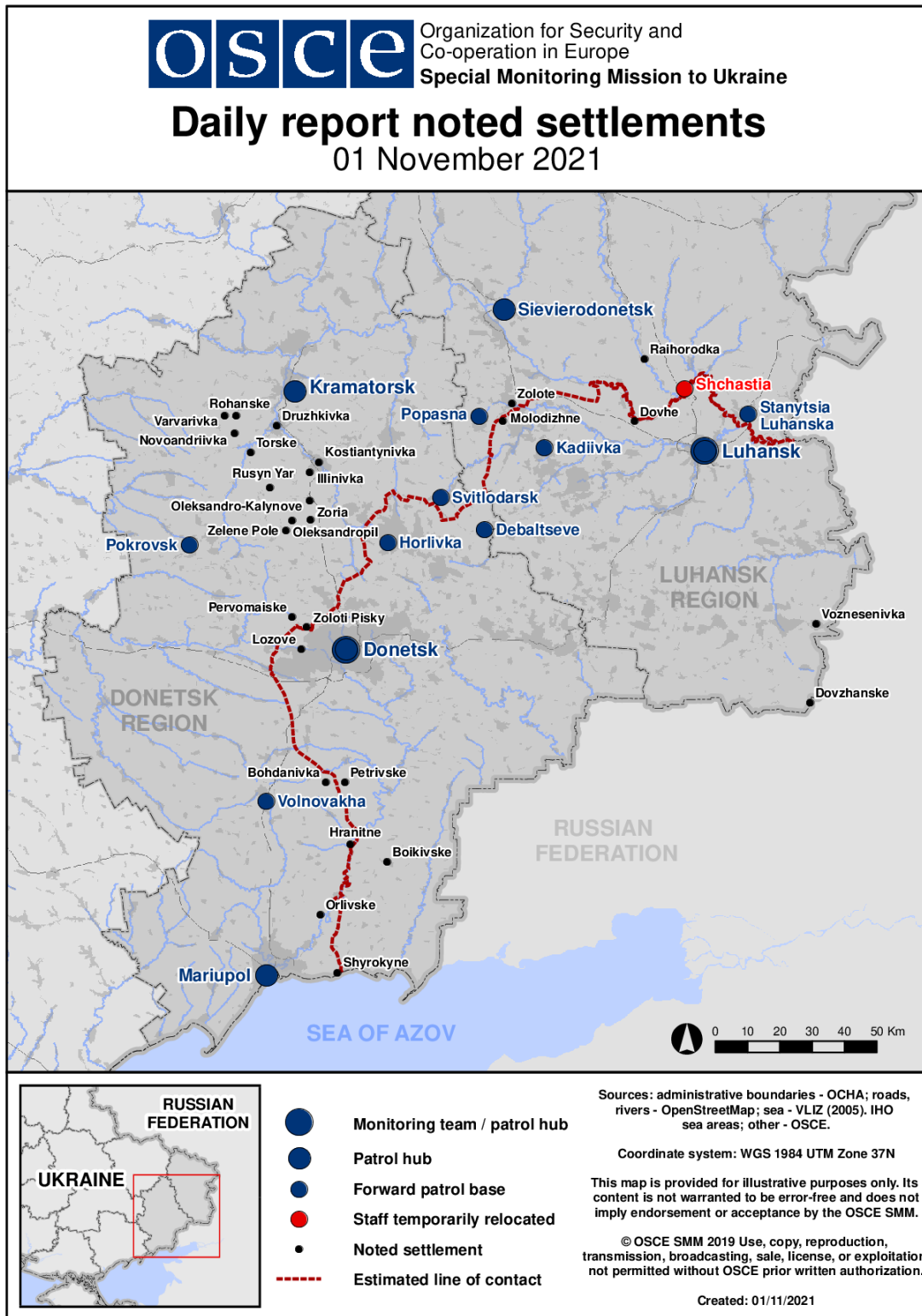
SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	4-6km NNW	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	29-Oct, 20:21
	4-6km NNW	Recorded	1	Muzzle flash		N/K	29-Oct, 20:23
	4-6km NNW	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	29-Oct, 20:23
	4-6km N	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	29-Oct, 20:23
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	29-Oct, 20:26
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	29-Oct, 20:29
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	29-Oct, 20:34
	4-6km N	Recorded	13	Projectile	W to E	N/K	29-Oct, 20:34
	4-6km N	Recorded	3	Projectile	W to E	N/K	29-Oct, 20:40
	4-6km N	Recorded	17	Projectile	W to E	N/K	29-Oct, 20:57
	4-6km N	Recorded	1	Projectile	W to E	N/K	29-Oct, 21:26
	4-6km N	Recorded	2	Illumination flare	In vertical flight	N/K	29-Oct, 21:44
	4-6km N	Recorded	1	Illumination flare	In vertical flight	N/K	29-Oct, 22:36
	4-6km N	Recorded	3	Projectile	W to E	N/K	29-Oct, 23:12
	4-6km N	Recorded	1	Projectile	E to W	N/K	29-Oct, 23:13
	4-6km N	Recorded	2	Projectile	W to E	N/K	29-Oct, 23:13
	4-6km N	Recorded	1	Projectile	E to W	N/K	29-Oct, 23:14
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	30-Oct, 00:50
	4-6km N	Recorded	1	Muzzle flash		N/K	30-Oct, 00:50
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	30-Oct, 02:05
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	30-Oct, 02:08
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	30-Oct, 02:10
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	30-Oct, 02:37
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	30-Oct, 02:41
	4-6km N	Recorded	2	Projectile	E to W	N/K	30-Oct, 04:07
SMM camera in Svitlodarsk (government-controlled, 57km NE of Donetsk)	4-6km WSW	Recorded	3	Explosion	Undetermined	N/K	29-Oct, 23:47
About 800m ENE of Zhabunki (non-government-controlled, 9km NW of Donetsk)	3-5km WNW	Heard	1	Explosion	Undetermined	N/K	30-Oct, 12:25
About 300m NE of Zhabunki (non-government-controlled, 9km NW of Donetsk)	4-6km NNW	Heard	1	Explosion	Undetermined	N/K	30-Oct, 12:40
Troitske (government-controlled, 30km N of Donetsk)	2-3km E	Heard	3	Burst		Small arms	30-Oct, 10:48
About 2.1km WNW of Pisky (government-controlled, 12km NW of Donetsk)	1-3km SSE	Heard	6	Burst		Small arms	30-Oct, 12:52-12:53
	1-3km SSE	Heard	4	Shot		Small arms	30-Oct, 12:52-12:53
About 2.5km SE of Lebedynske (government-controlled, 99km S of Donetsk)	2-3km NE	Heard	12	Burst		Small arms	30-Oct, 10:39-10:45
	2-3km NE	Heard	5	Shot		Small arms	30-Oct, 10:39-10:45
	1-2km E	Heard	1	Explosion	Undetermined	N/K	30-Oct, 10:39-10:45
About 2km NE of Chernenko (government-controlled, 86km S of Donetsk)	1.5-2km E	Heard	1	Explosion	Undetermined	N/K	30-Oct, 12:08-12:18
	1.5-2km E	Heard	2	Burst		Small arms	30-Oct, 12:08-12:18

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	1.5-2km E	Heard	5	Shot		Small arms	30-Oct, 12:08-12:18
Orlivske (government-controlled, 82km S of Donetsk)	4-6km NE	Heard	1	Explosion	Undetermined	N/K	30-Oct, 10:54
	4-6km E	Heard	5	Shot		Small arms	30-Oct, 11:04
Hranitne (government-controlled, 60km S of Donetsk)	1-2km NW	Heard	1	Explosion	Undetermined	N/K	30-Oct, 12:16
SMM camera on N edge of Popasna (government-controlled, 69km W of Luhansk)	4-6km ESE	Recorded	1	Illumination flare	In vertical flight (assessed as outside the disengagement area near Zolote)	N/K	29-Oct, 18:10
	4-6km ESE	Recorded	1	Muzzle flash	Assessed as outside the disengagement area near Zolote)	N/K	29-Oct, 18:10
	4-6km ESE	Recorded	1	Projectile	NNE to SSW (subsequent to previous event, assessed as outside the disengagement area near Zolote)	N/K	29-Oct, 18:10
	4-6km ESE	Recorded	1	Projectile	S to N (assessed as outside the disengagement area near Zolote)	N/K	29-Oct, 18:12
	4-6km ESE	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	29-Oct, 18:13
	4-6km ESE	Recorded	1	Muzzle flash	Assessed as outside the disengagement area near Zolote)	N/K	29-Oct, 18:13
	4-6km ESE	Recorded	1	Projectile	In vertical flight (subsequent to previous event, (assessed as outside the disengagement area near Zolote))	N/K	29-Oct, 18:13
	4-6km ESE	Recorded	2	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	29-Oct, 18:14
	4-6km ESE	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	29-Oct, 18:15
	4-6km ESE	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	29-Oct, 18:25
	4-6km ESE	Recorded	1	Projectile	SSW to NNE (assessed as outside the disengagement area near Zolote)	N/K	29-Oct, 18:26
	4-6km ESE	Recorded	1	Projectile	NNE to SSW (assessed as outside the disengagement area near Zolote)	N/K	29-Oct, 18:26
N edge of Popasna (government-controlled, 69km W of Luhansk)	4-6km E	Heard	2	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	29-Oct, 21:28-21:50
	4-6km E	Heard	10	Burst	Assessed as outside the disengagement area near Zolote	Small arms	29-Oct, 21:28-21:50
	4-6km E	Heard	3	Burst	Assessed as outside the disengagement area near Zolote	HMG	29-Oct, 21:28-21:50
	4-6km E	Heard and saw	6	Explosion	Impact (assessed as outside the disengagement area near Zolote)	N/K	30-Oct, 15:45-16:00
	3-5km SE	Heard	2	Explosion	Undetermined	N/K	30-Oct, 15:45-16:00
	4-6km E	Heard and saw	14	Explosion	Impact (assessed as outside the disengagement area near Zolote)	N/K	30-Oct, 16:10-17:00
	4-6km E	Heard	14	Burst	Assessed as outside the disengagement area near Zolote	HMG	30-Oct, 16:10-17:00
	3-5km ESE	Heard	10	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	30-Oct, 16:10-17:00
	3-5km ESE	Heard	11	Burst	Assessed as outside the disengagement area near Zolote	HMG	30-Oct, 16:10-17:00
	3-5km ESE	Heard	35	Burst	Assessed as outside the disengagement area near Zolote	Small arms	30-Oct, 16:10-17:00
	3-5km SE	Heard	5	Explosion	Undetermined	N/K	30-Oct, 16:10-17:00
	4-6km E	Heard	6	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	30-Oct, 17:10-17:40
4-6km E	Heard	23	Burst	Assessed as outside the disengagement area near Zolote	HMG	30-Oct, 17:10-17:40	

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	4-6km E	Heard	25	Burst	Assessed as outside the disengagement area near Zolote	Small arms	30-Oct, 17:10-17:40
	4-6km E	Saw	1	Illumination flare	In vertical flight (assessed as outside the disengagement area near Zolote)	N/K	30-Oct, 17:10-17:40
	3-5km ESE	Heard	13	Burst	Assessed as outside the disengagement area near Zolote	Small arms	30-Oct, 17:10-17:40
	3-5km ESE	Heard	8	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	30-Oct, 17:10-17:40
W edge of Stanytsia Luhanska (government-controlled, 16km NE of Luhansk)	1-2km SSW	Heard	15	Shot	Assessed as outside the disengagement area	Small arms	30-Oct, 14:30-14:32
SMM camera 2km E of Bohdanivka (government-controlled, 41km SW of Donetsk)	1-3km ESE	Recorded	6	Projectile	NNE to SSW (assessed as inside the disengagement area near Petrivske)	N/K	31-Oct, 01:17
	1-3km ESE	Recorded	3	Projectile	NNE to SSW (assessed as inside the disengagement area near Petrivske)	N/K	31-Oct, 01:45
SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk)	5-7km ESE	Recorded	1	Explosion	Undetermined	N/K	30-Oct, 21:34
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	2-4km E	Recorded	1	Explosion	Undetermined	N/K	31-Oct, 01:30
SMM camera at Oktiabr mine (non-government-controlled, 9km NW of Donetsk city centre)	2-4km W	Recorded	32	Projectile	N to S	N/K	31-Oct, 17:01
	2-4km W	Recorded	12	Projectile	N to S	N/K	31-Oct, 17:02
	2-4km W	Recorded	10	Projectile	N to S	N/K	31-Oct, 17:07
	2-4km W	Recorded	12	Projectile	N to S	N/K	31-Oct, 17:08
	2-4km W	Recorded	3	Projectile	N to S	N/K	31-Oct, 17:09
	2-4km W	Recorded	42	Projectile	N to S	N/K	31-Oct, 17:23
	2-4km W	Recorded	2	Projectile	N to S	N/K	31-Oct, 17:54
	2-4km W	Recorded	6	Projectile	N to S	N/K	31-Oct, 17:57
	2-4km W	Recorded	31	Projectile	N to S	N/K	31-Oct, 17:59
SMM camera 1km SW of Shyrokyne (government-controlled, 100km S of Donetsk)	3-5km N	Recorded	5	Projectile	E to W	N/K	30-Oct, 18:59
	3-5km N	Recorded	1	Projectile	E to W	N/K	30-Oct, 19:01
	3-5km N	Recorded	6	Projectile	E to W	N/K	30-Oct, 19:02
	3-5km N	Recorded	1	Projectile	SE to NW	N/K	30-Oct, 20:57
	3-5km N	Recorded	2	Projectile	SE to NW	N/K	31-Oct, 00:03
	3-5km N	Recorded	1	Projectile	SW to NE	N/K	31-Oct, 00:03
	3-5km N	Recorded	1	Projectile	S to N	N/K	31-Oct, 01:14
	3-5km N	Recorded	1	Projectile	S to N	N/K	31-Oct, 01:15
	4-6km N	Recorded	1	Illumination flare	In vertical flight	N/K	31-Oct, 17:21
	4-6km N	Recorded	8	Projectile	W to E	N/K	31-Oct, 17:36
	4-6km N	Recorded	1	Projectile	W to E	N/K	31-Oct, 17:38
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	31-Oct, 17:42
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	31-Oct, 17:43
	4-6km N	Recorded	1	Muzzle flash		N/K	31-Oct, 17:46
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	31-Oct, 17:48
	4-6km N	Recorded	4	Projectile	W to E	N/K	31-Oct, 17:49
	4-6km N	Recorded	2	Muzzle flash		N/K	31-Oct, 18:13
	4-6km N	Recorded	1	Illumination flare	In vertical flight	N/K	31-Oct, 18:14
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	31-Oct, 18:14
	4-6km N	Recorded	21	Projectile	E to W	N/K	31-Oct, 18:14
4-6km N	Recorded	5	Explosion	Undetermined	N/K	31-Oct, 18:15	
4-6km N	Recorded	17	Projectile	E to W	N/K	31-Oct, 18:15	
4-6km N	Recorded	3	Projectile	E to W	N/K	31-Oct, 18:17	
4-6km N	Recorded	6	Projectile	W to E	N/K	31-Oct, 18:37	

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	4-6km N	Recorded	1	Projectile	WSW to ENE	N/K	31-Oct, 18:39
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	31-Oct, 18:45
Donetsk city centre (non-government-controlled)	10km WSW	Heard	30	Explosion	Undetermined	N/K	31-Oct, 02:45-04:00
	10km WSW	Heard	10	Explosion	Undetermined	N/K	31-Oct, 05:00
About 2.5km SSE of Lomakyne (government-controlled, 93km S of Donetsk)	2-3km E	Heard	95	Shot		N/K	31-Oct, 10:30-10:37
	2-3km E	Heard	6	Burst		HMG	31-Oct, 10:30-10:37
SMM camera in Zolote (government-controlled, 60km W of Luhansk)	4-6km ENE	Recorded	1	Projectile	N to S (assessed as outside the disengagement area)	N/K	30-Oct, 19:51
	4-6km ENE	Recorded	1	Projectile	N to S (assessed as outside the disengagement area)	N/K	30-Oct, 20:17
	4-6km ENE	Recorded	1	Projectile	N to S (assessed as outside the disengagement area)	N/K	30-Oct, 20:26
	4-6km E	Recorded	2	Projectile	In vertical flight (assessed as outside the disengagement area)	N/K	30-Oct, 20:35
	4-6km ENE	Recorded	1	Projectile	N to S (assessed as outside the disengagement area)	N/K	30-Oct, 20:49
	4-6km ENE	Recorded	1	Projectile	N to S (assessed as outside the disengagement area)	N/K	30-Oct, 21:11
	4-6km ENE	Recorded	1	Projectile	N to S (assessed as outside the disengagement area)	N/K	30-Oct, 21:17
	2-3km ESE	Recorded	1	Projectile	N to S (assessed as outside the disengagement area)	N/K	31-Oct, 16:59
	2-3km ESE	Recorded	1	Projectile	N to S (assessed as outside the disengagement area)	N/K	31-Oct, 17:00
	2-3km ESE	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	31-Oct, 17:06
	1-3km ENE	Recorded	1	Projectile	N to S (assessed as outside the disengagement area)	N/K	31-Oct, 17:16
	1-3km ENE	Recorded	1	Projectile	N to S (assessed as outside the disengagement area)	N/K	31-Oct, 17:18
	1-3km ENE	Recorded	1	Projectile	N to S (assessed as outside the disengagement area)	N/K	31-Oct, 17:21
	1-3km ENE	Recorded	1	Projectile	N to S (assessed as outside the disengagement area)	N/K	31-Oct, 17:22
1-3km ENE	Recorded	1	Projectile	N to S (assessed as outside the disengagement area)	N/K	31-Oct, 17:39	
About 3km N of Pervomaisk (non-government-controlled, 58km W of Luhansk)	5-6km NNE	Heard	3	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	31-Oct, 09:34-09:36
E edge of Popasna (government-controlled, 69km W of Luhansk)	3-5km ENE	Heard	7	Burst	Assessed as outside the disengagement area near Zolote	HMG	31-Oct, 09:55
Disengagement area near Stanytsia Luhanska (government-controlled, 16km NE of Luhansk)	4-6km SW	Heard	8	Burst	Assessed as outside the disengagement area	HMG	31-Oct, 09:47-09:48
	4-6km SW	Heard	221	Shot	Assessed as outside the disengagement area	HMG	31-Oct, 09:53-10:11
SSE edge of Popasna (government-controlled, 69km W of Luhansk)	2-2.5km E	Heard	2	Burst		HMG	31-Oct, 13:55

Map of Donetsk and Luhansk regions¹¹



¹¹ 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).