

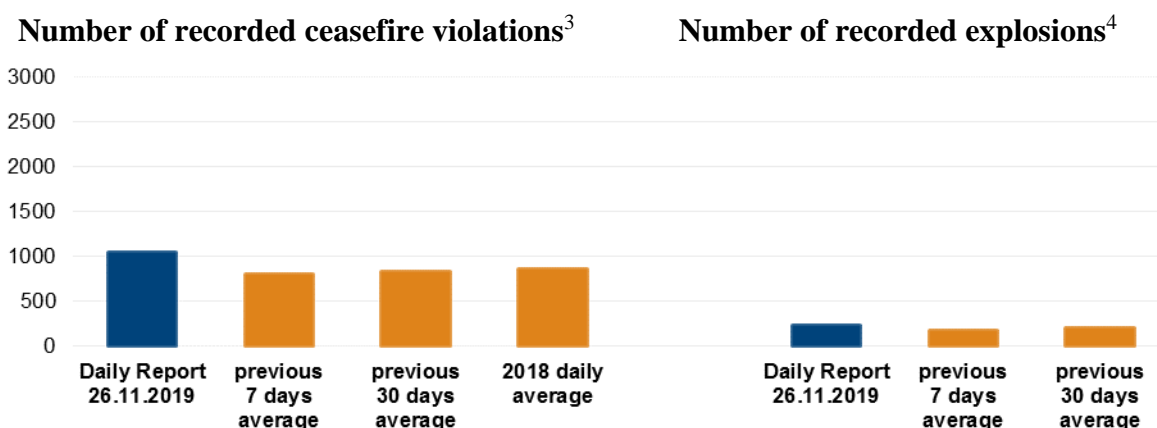
# Daily Report 280/2019

26 November 2019<sup>1</sup>

## Summary

- Compared with the previous 24 hours, the SMM recorded more ceasefire violations in both Donetsk and Luhansk regions.
- The SMM continued to monitor the situation in the Petrivske and Stanytsia Luhanska disengagement areas.
- It also observed demining activities and saw that fortifications had been dismantled inside the Zolote disengagement area.
- The SMM saw anti-tank mines near Novotoshkivske and Donetskyi.
- It monitored adherence to the ceasefire to facilitate repairs to and the operation of essential civilian infrastructure, including to communication equipment in Obozne and water pipelines between Novoluhanske and Kurdiurmivka.
- The Mission followed up on reports of vandalism at a monument to a Yiddish author and playwright in Kyiv.
- It monitored public events on the occasion of the beginning of the “16 days of activism against gender-based violence” in Ivano-Frankivsk, Kharkiv, and Kyiv.
- Restrictions of the SMM’s freedom of movement continued, including in non-government-controlled Samiilove (Donetsk region).\*

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



## Map of recorded ceasefire violations

<sup>1</sup> Based on information from the Monitoring Teams as of 19:30, 25 November 2019. All times are in Eastern European Time.

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

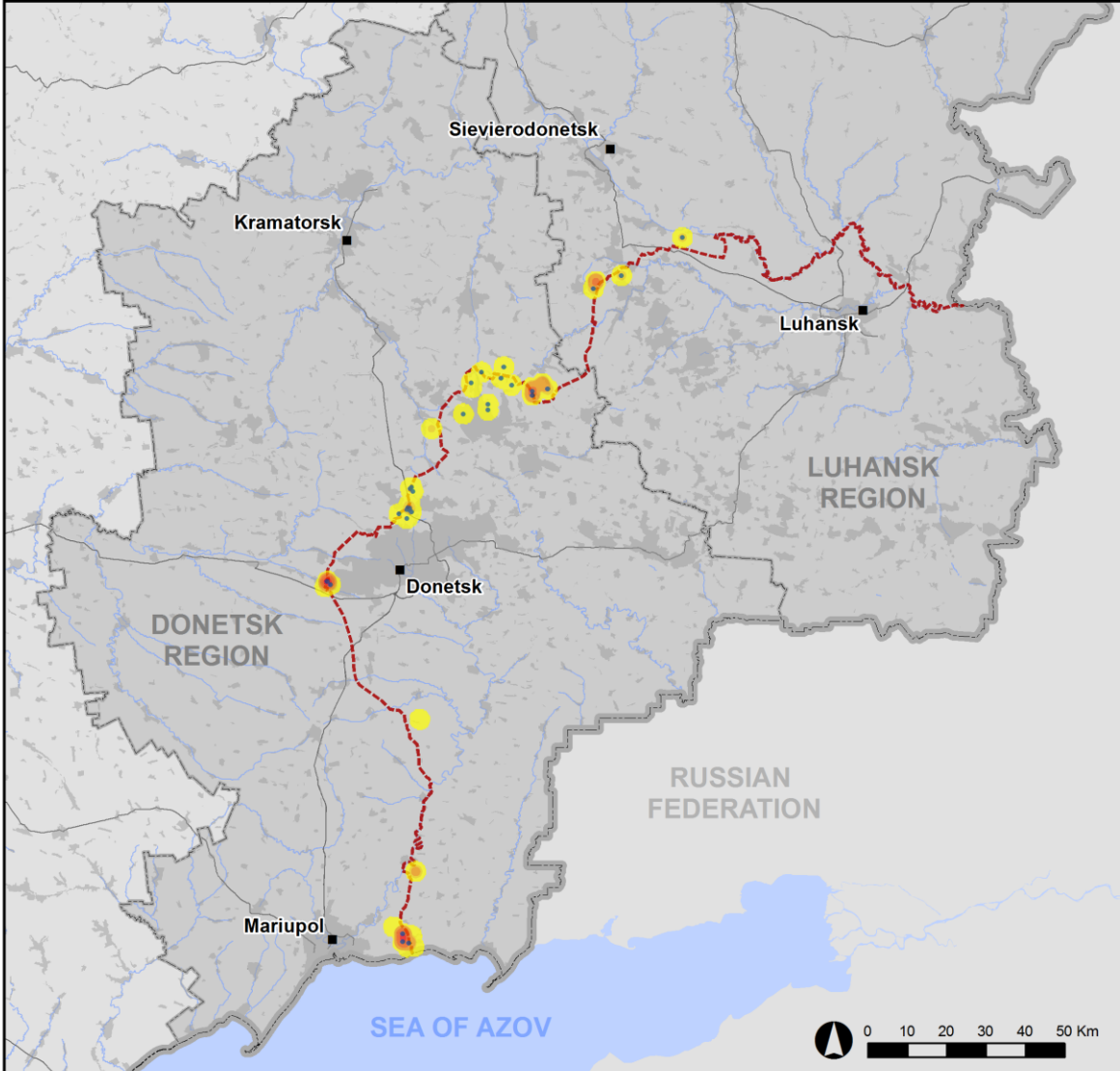
<sup>3</sup> Including explosions.

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

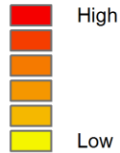


Organization for Security and  
Co-operation in Europe  
Special Monitoring Mission to Ukraine

## Ceasefire violations observed by the SMM 25 November 2019



### Ceasefire violation concentration



- Explosion
- Settlement
- ..... Estimated line of contact

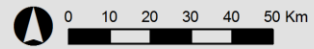
Sources: Administrative Boundaries - OCHA; Roads, Rivers - OpenStreetMap; Sea - VLIZ (2005). IHO Sea Areas; Other - OSCE.

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: 26/11/2019



In Donetsk region, the SMM recorded more ceasefire violations, including 190 explosions, compared with the [previous 24 hours](#) (about 80 explosions). The majority of the ceasefire violations were recorded in areas north and north-north-east of Shyrokyne (government-controlled, 100km south of Donetsk), at southerly directions of Svitlodarsk (government-controlled, 57km north-east of Donetsk) and in areas north-north-east of Marinka (government-controlled, 23km south-west of Donetsk).

In Luhansk region, the Mission recorded more ceasefire violations, including about 30 explosions, compared with the [previous 24 hours](#) (five explosions). The majority of ceasefire violations were recorded at easterly and southerly directions of Popasna (government-controlled, 69km west of Luhansk).

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

Positioned east of Bohdanivka (government-controlled, 41km south-west of Donetsk), the SMM saw four SUVs and one excavator, assessed as belonging to the State Emergency Service of Ukraine (SES), driving east on the road towards Viktorivka (non-government-controlled, 42km south-west of Donetsk) and **the disengagement area near Petrivske** (non-government-controlled, 41km south of Donetsk).

The Mission [again](#) saw 38 anti-tank mines (TM-62M) marked by red-and-white tape across the road between Bohdanivka and Viktorivka, about 160m north of the northern edge of the disengagement area.

Positioned about 1.8km north of Petrivske, the SMM heard a shot of small-arms fire at an assessed range of 1-2km south-east, assessed as outside the disengagement area.

On 25 and 26 November respectively, the SMM received a letter from the armed formations in non-government-controlled areas of Luhansk region and a Note Verbale from the Ministry of Foreign Affairs of Ukraine on the dismantling of fortifications and other installations of military value inside **the disengagement area near Zolote** (government-controlled, 60km west of Luhansk). The SMM will continue to monitor and report on developments in the disengagement area.

On 24 November, inside the disengagement area, an SMM mini-unmanned aerial vehicle (UAV) spotted that a position of the Ukrainian Armed Forces (made of a bunker and a shelter), located about 1km south of the area's northern edge and about 1km east of its western edge, had been demolished and most of the material removed. Another SMM mini-UAV spotted that bunkers at the most forward position of the Ukrainian Armed Forces (on both sides of road T-1316) and other bunkers and a shelter, located about 100m south-east and north of the railway bridge respectively had been dismantled and materials removed.

On 25 November, the SMM observed two tractors enter the disengagement area and clean the road and cut vegetation up to 2-3m on both sides of road T-1316 just north of the checkpoint of the armed formations on the southern edge of the disengagement area. It also observed seven deminers equipped with metal detectors and 16 workers with chainsaws and wood-cutting equipment, all from non-government-controlled areas, enter the disengagement area. At the

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

checkpoint of the armed formations on the southern edge of the area, the SMM saw two workers from non-government-controlled areas installing telephone communication cables. Positioned at the same checkpoint, the SMM heard three explosions at an assessed range of 500-800m north, assessed as controlled detonations.

Outside the disengagement area, about 200m north-east and 600m east-north-east of the checkpoint of the Ukrainian Armed Forces on its northern edge, the SMM saw three Ukrainian Armed Forces members fencing an area with wooden poles and multi-strand communication wires.

The Mission saw six members of the armed formations (wearing armbands with “JCCC” written on them) near the [previously reported](#) blue container south of the area’s southern edge.

On 23 November, inside **the disengagement area near Stanytsia Luhanska** (government-controlled, 16km north-east of Luhansk), an SMM mini-UAV [again](#) spotted a concertina wire east of the road and extending to at least about 300-400m east partially within a treeline, about 200m south of its northern edge. The same UAV also [again](#) spotted an anti-aircraft-gun (ZU-23, 23mm), about 150m south of the south-eastern edge of the Stanytsia Luhanska disengagement area, outside of it.

On 25 November, the SMM [again](#) saw five workers from non-government-controlled areas installing new railings on the western side of the railway bridge, about 500m east-north east of the Stanytsia Luhanska bridge (15km north-east of Luhansk).

At the entry-exit checkpoint north of the Stanytsia Luhanska bridge, the SMM saw a man in his fifties being transported from government- to non-government-controlled areas, accompanied by staff of an international humanitarian organization, and subsequently transferred on a stretcher across the bridge to an ambulance south of the metal part of the bridge. The same staff member told the Mission that the man had suffered a stroke while waiting to cross the contact line.

The Mission saw a member of the armed formations (wearing an armband with “JCCC” written on it) near the newly constructed section of the bridge.

### **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.

The Mission observed weapons beyond withdrawal lines but outside of designated storage sites in government-controlled areas of Donetsk region (for further details, see the tables below).

### **Indications of military and military-type presence in the security zone<sup>6</sup>**

The SMM observed military and military-type presence inside the security zone on both sides of the contact line, including trench extensions, an armoured personnel carrier, an anti-aircraft gun, and infantry fighting vehicles (for further details, see the table below).

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<sup>6</sup> The hardware mentioned in this section is not proscribed by the provisions of the Minsk agreements on the withdrawal of weapons.

### **Anti-tank mines near Novotoshkivske and Donetskyi, and used cartridges near Avdiivka**

On 24 November, about 150m west of military positions of the Ukrainian Armed Forces near Novotoshkivske (government-controlled, 53km west of Luhansk), an SMM mini-UAV [again](#) spotted 17 anti-tank mines (probable TM-62) placed in two rows across road T-1303 from Novotoshkivske to Zholobok (non-government-controlled, 47km west of Luhansk). About 1.8km south-south-west from the said mines, on the same day, an SMM mini-UAV [again](#) spotted 15 anti-tank mines placed in three rows across a local road near Donetskyi (non-government-controlled, 49km west of Luhansk), assessed as belonging to the armed formations.

On 25 November, the SMM saw six used cartridges, assessed as recently used 30mm infantry fighting vehicle (BMP-2) rounds, on the side of a local road on the north-eastern edge of Avdiivka (government-controlled, 17km north of Donetsk).

On the same day, on the eastern edge of Popasna, the SMM observed a white mine hazard sign on a wooden pole with “attention! Mines” written on it in black in Ukrainian on the south-eastern side of road T-0504.

### **SMM facilitation of repairs to and operation of critical civilian infrastructure**

The SMM monitored adherence to the ceasefire to facilitate repairs to communication equipment in Obozne (non-government-controlled, 18km north of Luhansk) and water pipelines between Novoluhanske (government-controlled, 53km north-east of Donetsk) and Kurdiumivka (government-controlled, 54km north of Donetsk).

The Mission continued to facilitate the operation of the Donetsk Filtration Station (15km north of Donetsk) and monitored the security situation in areas around the pumping station near Vasylivka (non-government-controlled, 20km north of Donetsk).

### **Border areas not under government control**

While at a border crossing point at Novoazovsk (102km south-east of Donetsk) for about 30 minutes, the SMM saw two cars with Russian Federation licence plates entering Ukraine. It also saw five cars (one with Ukrainian and three with Russian Federation licence plates, and one with “DPR” plates) and two covered cargo trucks (one with Ukrainian licence plates and one with “DPR” plates) exiting Ukraine.

### **SMM followed up on reports of vandalism at monument to Yiddish author**

The SMM saw two swastikas spray-painted in red on the statue of a Yiddish author and playwright in a park near the Kyiv Brodsky Synagogue (at 13 Shota Rustaveli Street) in Kyiv. A rabbi told the SMM that members of the Jewish community had noticed the graffiti on the morning of 25 November. The Pechersk district police announced in an online statement that a criminal investigation had been opened under articles 296 (1) (hooliganism) and 161 (violation of citizens’ equality based on their race, nationality, or religious preferences) of the Criminal Code of Ukraine.

## Public events on occasion of beginning of “16 days of activism against gender-based violence”

The SMM monitored public events in Ivano-Frankivsk (about 50 participants, mixed genders and ages), Kharkiv (15 participants, three men and 12 women, 35-55 years old) and Kyiv (about 50 participants, mostly women, mixed ages), on the occasion of the beginning of the “16 days of activism against gender-based violence”.

The Mission continued monitoring in Kherson, Odessa, Lviv, 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 Package of Measures 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 Coordination should contribute to such response and co-ordinate mine clearance. Nonetheless, the armed formations in parts of Donetsk and Luhansk regions frequently deny the SMM access to areas adjacent to Ukraine’s border outside control of the Government (for example, see [SMM Daily Report of 19 November 2019](#)). 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.*

### Denial of access:

- In Samiilove (non-government-controlled, 89km south of Donetsk), two armed members of the armed formations denied the SMM access to Kuznetsy (non-government-controlled, 89km south-east of Donetsk), citing “a military exercise in the area”.

### *Regular restrictions related to disengagement areas and mines/UXO:*

- The sides continued to deny the SMM full access, as well as the ability to travel certain roads previously identified as important for effective monitoring by the Mission and for civilians’ movement, through failure to conduct comprehensive clearance of mines, UXO and other obstacles.

### Other impediments:

- On 23 November, an SMM long-range UAV experienced GPS signal interference, assessed as caused by probable jamming, while flying over areas between Stepanivka (government-controlled, 54km north of Donetsk) and Pisky (government-controlled, 11km north-west of Donetsk) and again between Umanske (government-controlled, 25km north-west of Luhansk) and Stepanivka.<sup>7</sup>
- On 25 November, an SMM mini-UAV experienced GPS signal interference, assessed as due to probable jamming while flying near Bohdanivka (government-controlled, 41km south-west of Donetsk).

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<sup>7</sup> The interference could have originated from anywhere within the radius of kilometres from the UAV’s positions.

**- Table of weapons**  
**Beyond withdrawal lines but outside of designated storage sites**

Date	No. of weapons	Type of weapon	Location	Source of observation
<b>Government-controlled areas</b>				
23/11/2019	5	Tank (probable T-64)	Near Yablunivka (49km north of Donetsk)	Long-range UAV
24/11/2019	4	Tank (T-80)	Near Kasianivka (81km south of Donetsk), being transported on flatbed trailers	Patrol
24/11/2019	1	Surface-to-air missile system (9K35 <i>Strela-10</i> )	Near Novooleksiivka (70km south of Donetsk), being transported on flatbed trailers	Patrol
25/11/2019	3	Probable self-propelled howitzer (2S1 <i>Gvozdika</i> , 122mm)	Near Kalynove (formerly Kalinine, 65km south-west of Donetsk), stationary	Patrol
25/11/2019	20	Tank (T-80)	At the railway station in Khlivodarivka (65km south-west of Donetsk), being transported on a train	Patrol
25/11/2019	4	Towed howitzer (D-20, 152mm)	Near Khlivodarivka (65km south-west of Donetsk), stationary	Patrol

**Table of indications of military and military-type presence in the security zone<sup>8</sup>**

Date	No.	Type	Location	Source of observation
<b>Government-controlled areas</b>				
22/11/2019	-	Trench extension	Near Hnutove (90km south of Donetsk) (not seen in imagery from 21 October 2019)	Aerial imagery available to the SMM
	-	Trench extension	Near Vodiane (94km south of Donetsk) (not seen in imagery from 21 October 2019)	
24/11/2019	1	Infantry fighting vehicle (BMP-1)	Near Novotoshkivske (53km west of Luhansk)	Mini UAV
25/11/2019	1	Armoured personnel carrier	Near Nyzhnoteple (26km north of Luhansk)	Patrol
25/11/2019	2	Infantry fighting vehicle (BMP-1)	Near Popasna (69km west of Luhansk)	Patrol
<b>Non-government-controlled areas</b>				
22/11/2019	-	Trench extension and new revetted position	Near Pikuzy (formerly Kominternove, 92km south of Donetsk) (not seen in imagery from 21 October 2019)	Aerial imagery available to the SMM
23/11/2019	1	Anti-aircraft gun (ZU-23, 23mm)	Near Kypuche (46km west of Luhansk)	Mini UAV

<sup>8</sup>The hardware mentioned in this section is not proscribed by the provisions of the Minsk agreements on the withdrawal of weapons.

**Table of ceasefire violations as of 25 November 2019<sup>9</sup>**

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera in Avdiivka (government-controlled, 17km N of Donetsk)	4-6km ESE	Recorded	1	Projectile	SW to NE	N/K	24-Nov, 18:22
	4-6km ESE	Recorded	1	Explosion	Airburst	N/K	24-Nov, 18:48
	4-6km ESE	Recorded	1	Explosion	Airburst	N/K	24-Nov, 18:52
	4-6km SE	Recorded	1	Explosion	Undetermined	N/K	24-Nov, 19:16
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	3-5km SE	Recorded	10	Projectile	In vertical flight	N/K	25-Nov, 17:10
	3-5km SE	Recorded	12	Projectile	NE to SW	N/K	25-Nov, 17:23
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	1-3km SSW	Recorded	1	Projectile	E to W (also recorded by the Avdiivka camera)	N/K	24-Nov, 18:36
	1-3km SSW	Recorded	1	Projectile	E to W (also recorded by the Avdiivka camera)	N/K	24-Nov, 18:40
	1-3km S	Recorded	1	Illumination flare	Also recorded by the Avdiivka camera	N/K	24-Nov, 18:41
	1-3km SSW	Recorded	1	Explosion	Airburst, also recorded by the Avdiivka camera	N/K	24-Nov, 18:48
	1-3km S	Recorded	2	Explosion	Undetermined, also recorded by the Avdiivka camera	N/K	24-Nov, 18:52
	1-3km S	Recorded	1	Explosion	Undetermined, also recorded by the Avdiivka camera	N/K	24-Nov, 18:53
	0.5-1km SSW	Recorded	3	Projectile	E to W	N/K	24-Nov, 21:23
	500-800m SSW	Recorded	1	Muzzle flash		N/K	24-Nov, 21:34
	500-800m SSW	Recorded	1	Muzzle flash		N/K	24-Nov, 21:36
	0.5-1km SSW	Recorded	1	Projectile	E to W	N/K	24-Nov, 21:42
	1-2km S	Recorded	1	Explosion	Undetermined	N/K	24-Nov, 21:52
	0.5-1km S	Recorded	1	Muzzle flash		N/K	24-Nov, 21:53
	0.5-1km S	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	24-Nov, 21:53
	0.5-1km S	Recorded	1	Projectile	E to W	N/K	24-Nov, 21:54
	1-2km SSW	Recorded	1	Explosion	Undetermined	N/K	24-Nov, 22:05
SMM camera E of Lomakyne (government-controlled, 90km S of Donetsk)	2-4km E	Recorded	1	Projectile	S to N	N/K	25-Nov, 16:48

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



SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	2-4km ENE	Recorded	1	Explosion	Undetermined	N/K	24-Nov, 22:24
	2-4km E	Recorded	5	Projectile	In vertical flight	N/K	25-Nov, 00:18
SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)	1-2km NNE	Recorded	9	Projectile	WSW to ENE	N/K	24-Nov, 19:44
	1-2km NNE	Recorded	2	Projectile	WSW to ENE	N/K	24-Nov, 19:45
	1-2km NNE	Recorded	2	Projectile	WSW to ENE	N/K	24-Nov, 19:52
	1-2km NNE	Recorded	3	Projectile	WSW to ENE	N/K	24-Nov, 19:53
	2-4km NNE	Recorded	4	Projectile	W to E	N/K	24-Nov, 19:57
	2-4km NNE	Recorded	8	Projectile	W to E	N/K	24-Nov, 19:58
	2-4km NNE	Recorded	12	Projectile	W to E	N/K	24-Nov, 20:01
	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	24-Nov, 20:01
	2-4km NNE	Recorded	10	Projectile	W to E	N/K	24-Nov, 20:02
	2-4km NNE	Recorded	11	Projectile	W to E	N/K	24-Nov, 20:03
	2-4km NNE	Recorded	4	Projectile	W to E	N/K	24-Nov, 20:04
	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	24-Nov, 20:04
	2-4km NNE	Recorded	24	Projectile	W to E	N/K	24-Nov, 20:06
	2-4km NNE	Recorded	4	Explosion	Undetermined	N/K	24-Nov, 20:06
	2-4km NNE	Recorded	16	Projectile	W to E	N/K	24-Nov, 20:07
	2-4km NNE	Recorded	2	Explosion	Undetermined	N/K	24-Nov, 20:07
	2-4km NNE	Recorded	4	Projectile	W to E	N/K	24-Nov, 20:08
	2-4km NNE	Recorded	2	Explosion	Undetermined	N/K	24-Nov, 20:08
	2-4km NNE	Recorded	1	Projectile	W to E	N/K	24-Nov, 20:09
	2-4km NNE	Recorded	2	Explosion	Undetermined	N/K	24-Nov, 20:09
	2-4km NNE	Recorded	2	Projectile	W to E	N/K	24-Nov, 20:10
	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	24-Nov, 20:10
	2-4km NNE	Recorded	7	Projectile	W to E	N/K	24-Nov, 20:11
	2-4km NNE	Recorded	2	Explosion	Undetermined	N/K	24-Nov, 20:11
	2-4km NNE	Recorded	5	Projectile	W to E	N/K	24-Nov, 20:12
	2-4km NNE	Recorded	16	Projectile	W to E	N/K	24-Nov, 20:14
	2-4km NNE	Recorded	4	Explosion	Undetermined	N/K	24-Nov, 20:14
	2-4km NNE	Recorded	7	Projectile	W to E	N/K	24-Nov, 20:15
	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	24-Nov, 20:15
	2-4km NNE	Recorded	3	Projectile	W to E	N/K	24-Nov, 20:16
	2-4km NNE	Recorded	1	Projectile	W to E	N/K	24-Nov, 20:18
	2-4km NNE	Recorded	3	Projectile	W to E	N/K	24-Nov, 20:20
	2-4km NNE	Recorded	1	Projectile	W to E	N/K	24-Nov, 20:22
	2-4km NNE	Recorded	2	Projectile	W to E	N/K	24-Nov, 20:24
	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	24-Nov, 20:24
	2-4km NNE	Recorded	3	Projectile	W to E	N/K	24-Nov, 20:34
	2-4km NNE	Recorded	4	Explosion	Undetermined	N/K	24-Nov, 20:34
	2-4km NNE	Recorded	6	Projectile	W to E	N/K	24-Nov, 20:35
	2-4km NNE	Recorded	4	Projectile	W to E	N/K	24-Nov, 20:37
	2-4km NNE	Recorded	3	Explosion	Undetermined	N/K	24-Nov, 20:37
2-4km NNE	Recorded	10	Projectile	W to E	N/K	24-Nov, 20:38	
2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	24-Nov, 20:40	
2-4km NNE	Recorded	2	Projectile	W to E	N/K	24-Nov, 20:43	
2-4km NNE	Recorded	6	Projectile	W to E	N/K	24-Nov, 20:44	
2-4km NNE	Recorded	6	Projectile	W to E	N/K	24-Nov, 20:45	
2-4km NNE	Recorded	6	Projectile	W to E	N/K	24-Nov, 20:46	
2-4km NNE	Recorded	2	Explosion	Undetermined	N/K	24-Nov, 20:53	
2-4km NNE	Recorded	5	Projectile	W to E	N/K	24-Nov, 20:54	
2-4km NNE	Recorded	3	Projectile	W to E	N/K	24-Nov, 20:55	
2-4km NNE	Recorded	10	Projectile	W to E	N/K	24-Nov, 21:03	
2-4km NNE	Recorded	4	Projectile	W to E	N/K	24-Nov, 21:04	
2-4km NNE	Recorded	6	Projectile	W to E	N/K	24-Nov, 21:05	

SMM camera 1km SW of Shyrokyne (government-controlled, 100km S of Donetsk)	2-4km NNE	Recorded	7	Projectile	W to E	N/K	24-Nov, 21:06
	2-4km NNE	Recorded	2	Projectile	E to W	N/K	24-Nov, 18:13
	3-5km NNE	Recorded	1	Projectile	In vertical flight	N/K	24-Nov, 18:13
	3-5km N	Recorded	2	Projectile	SE to NW	N/K	24-Nov, 18:14
	4-6km N	Recorded	5	Projectile	SW to NE	N/K	24-Nov, 18:20
	4-6km N	Recorded	9	Projectile	SE to NW	N/K	24-Nov, 18:21
	4-6km N	Recorded	2	Projectile	SE to NW	N/K	24-Nov, 18:22
	4-6km N	Recorded	1	Projectile	SSE to NNW	N/K	24-Nov, 18:36
	4-6km N	Recorded	2	Projectile	SW to NE	N/K	24-Nov, 18:44
	4-6km N	Recorded	11	Projectile	SW to NE	N/K	24-Nov, 18:54
	4-6km N	Recorded	1	Projectile	SW to NE	N/K	24-Nov, 19:17
	4-6km NNE	Recorded	1	Projectile	SE to NW	N/K	24-Nov, 19:20
	4-6km N	Recorded	1	Projectile	SW to NE	N/K	24-Nov, 19:31
	4-6km N	Recorded	7	Projectile	SE to NW	N/K	24-Nov, 19:34
	5-7km N	Recorded	1	Projectile	WSW to ENE	N/K	24-Nov, 19:42
	3-5km NNE	Recorded	1	Projectile	In vertical flight	N/K	24-Nov, 20:42
	5-7km N	Recorded	8	Projectile	WSW to ENE	N/K	24-Nov, 21:31
	5-7km N	Recorded	1	Projectile	WSW to ENE	N/K	24-Nov, 21:32
	4-6km N	Recorded	1	Projectile	ESE to WNW	N/K	24-Nov, 21:32
	4-6km N	Recorded	2	Projectile	ESE to WNW	N/K	24-Nov, 21:33
	5-7km N	Recorded	4	Projectile	ESE to WNW	N/K	24-Nov, 21:41
	5-7km N	Recorded	1	Projectile	WSW to ENE	N/K	24-Nov, 21:41
	5-7km N	Recorded	3	Projectile	ESE to WNW	N/K	24-Nov, 22:08
	5-7km N	Recorded	4	Projectile	SE to NW	N/K	24-Nov, 22:21
	5-7km N	Recorded	3	Projectile	SE to NW	N/K	24-Nov, 22:41
	5-7km N	Recorded	7	Projectile	SE to NW	N/K	24-Nov, 22:53
	5-7km N	Recorded	4	Projectile	WSW to ENE	N/K	24-Nov, 22:55
	5-7km N	Recorded	1	Projectile	ESE to WNW	N/K	24-Nov, 23:14
	3-5km NNE	Recorded	1	Projectile	WSW to ENE	N/K	24-Nov, 23:41
	5-7km N	Recorded	4	Projectile	WSW to ENE	N/K	24-Nov, 23:44
	3-5km NNE	Recorded	1	Projectile	WSW to ENE	N/K	24-Nov, 23:46
	3-5km NNE	Recorded	1	Projectile	WSW to ENE	N/K	24-Nov, 23:48
	5-7km N	Recorded	5	Projectile	ESE to WNW	N/K	24-Nov, 23:49
	3-5km NNE	Recorded	1	Projectile	WSW to ENE	N/K	24-Nov, 23:49
	3-5km NNE	Recorded	2	Projectile	WSW to ENE	N/K	24-Nov, 23:59
	5-7km N	Recorded	7	Projectile	WSW to ENE (also recorded by the Lomakyne camera)	N/K	25-Nov, 00:11
	5-7km N	Recorded	2	Projectile	WSW to ENE (also recorded by the Lomakyne camera)	N/K	25-Nov, 00:24
	5-7km N	Recorded	1	Muzzle flash		N/K	25-Nov, 00:25
	5-7km N	Recorded	1	Projectile	ESE to WNW (subsequent to previous event)	N/K	25-Nov, 00:25
	5-7km N	Recorded	4	Projectile	WSW to ENE (also recorded by the Lomakyne camera)	N/K	25-Nov, 00:29
	5-7km NNE	Recorded	3	Projectile	WSW to ENE	N/K	25-Nov, 00:31
5-7km NNE	Recorded	1	Muzzle flash		N/K	25-Nov, 00:31	
5-7km NNE	Recorded	1	Projectile	WSW to ENE (subsequent to previous event)	N/K	25-Nov, 00:31	
5-7km N	Recorded	4	Projectile	ESE to WNW	N/K	25-Nov, 00:32	

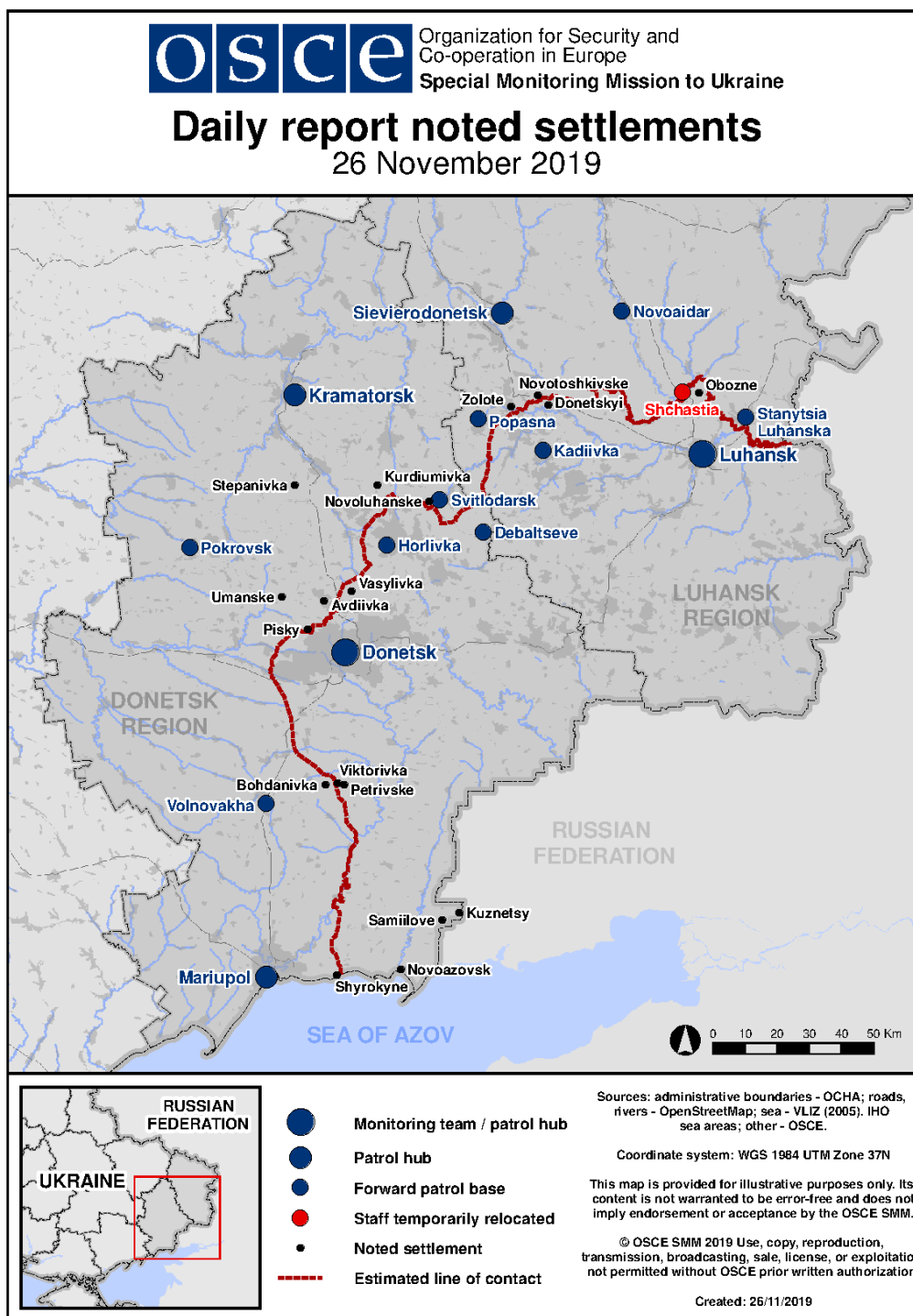
3-5km N	Recorded	4	Projectile	ESE to WNW	N/K	25-Nov, 00:33
5-7km N	Recorded	10	Projectile	ESE to WNW	N/K	25-Nov, 00:35
5-7km N	Recorded	7	Projectile	WSW to ENE	N/K	25-Nov, 00:35
3-5km NNE	Recorded	1	Projectile	ESE to WNW	N/K	25-Nov, 00:35
5-7km N	Recorded	6	Projectile	WSW to ENE	N/K	25-Nov, 00:37
5-7km N	Recorded	2	Projectile	WSW to ENE	N/K	25-Nov, 00:38
3-5km N	Recorded	8	Projectile	ESE to WNW	N/K	25-Nov, 00:49
5-7km N	Recorded	2	Explosion	Undetermined, also recorded by the Lomakyne camera	N/K	25-Nov, 00:53
5-7km N	Recorded	1	Explosion	Undetermined	N/K	25-Nov, 00:56
3-5km N	Recorded	1	Projectile	ESE to WNW	N/K	25-Nov, 00:59
5-7km N	Recorded	2	Projectile	WSW to ENE	N/K	25-Nov, 01:00
3-5km N	Recorded	9	Projectile	ESE to WNW	N/K	25-Nov, 01:07
3-5km N	Recorded	3	Projectile	ESE to WNW	N/K	25-Nov, 01:18
5-7km N	Recorded	4	Projectile	ESE to WNW	N/K	25-Nov, 01:18
5-7km N	Recorded	1	Explosion	Undetermined	N/K	25-Nov, 01:29
3-5km NNE	Recorded	1	Projectile	W to E	N/K	25-Nov, 01:47
5-7km N	Recorded	2	Projectile	ESE to WNW	N/K	25-Nov, 01:52
3-5km N	Recorded	3	Muzzle flash		N/K	25-Nov, 02:05
3-5km N	Recorded	1	Projectile	ESE to WNW	N/K	25-Nov, 02:05
3-5km N	Recorded	1	Projectile	WSW to ENE	N/K	25-Nov, 02:06
3-5km N	Recorded	1	Projectile	WSW to ENE	N/K	25-Nov, 02:33
3-5km N	Recorded	1	Projectile	ESE to WNW	N/K	25-Nov, 02:42
5-7km N	Recorded	1	Explosion	Undetermined	N/K	25-Nov, 02:43
5-7km N	Recorded	1	Projectile	ESE to WNW	N/K	25-Nov, 02:43
3-5km N	Recorded	1	Projectile	ESE to WNW	N/K	25-Nov, 02:43
3-5km NNE	Recorded	7	Projectile	WSW to ENE	N/K	25-Nov, 02:46
3-5km N	Recorded	3	Projectile	ESE to WNW	N/K	25-Nov, 02:50
5-7km N	Recorded	6	Projectile	WSW to ENE	N/K	25-Nov, 03:19
5-7km N	Recorded	11	Projectile	WSW to ENE	N/K	25-Nov, 03:24
5-7km N	Recorded	1	Projectile	WSW to ENE	N/K	25-Nov, 03:35
5-7km N	Recorded	2	Projectile	WSW to ENE	N/K	25-Nov, 03:39
5-7km N	Recorded	2	Projectile	WSW to ENE	N/K	25-Nov, 03:43
5-7km N	Recorded	5	Projectile	WSW to ENE (also recorded by the Lomakyne camera)	N/K	25-Nov, 04:15
5-7km N	Recorded	4	Projectile	WSW to ENE	N/K	25-Nov, 04:16
5-7km N	Recorded	4	Projectile	WSW to ENE	N/K	25-Nov, 04:22
5-7km N	Recorded	6	Projectile	WSW to ENE	N/K	25-Nov, 04:47
5-7km N	Recorded	5	Projectile	WSW to ENE	N/K	25-Nov, 04:50
5-7km N	Recorded	4	Projectile	WSW to ENE (also recorded by the Lomakyne camera)	N/K	25-Nov, 04:58
5-7km N	Recorded	2	Projectile	WSW to ENE	N/K	25-Nov, 04:58
5-7km N	Recorded	4	Projectile	WSW to ENE	N/K	25-Nov, 04:59
5-7km N	Recorded	2	Projectile	WSW to ENE	N/K	25-Nov, 05:00
3-5km N	Recorded	3	Projectile	ESE to WNW	N/K	25-Nov, 05:28
3-5km N	Recorded	2	Projectile	ESE to WNW	N/K	25-Nov, 05:30
3-5km N	Recorded	3	Projectile	ESE to WNW	N/K	25-Nov, 05:33
3-5km N	Recorded	4	Projectile	ESE to WNW	N/K	25-Nov, 05:34
3-5km N	Recorded	3	Projectile	W to E	N/K	25-Nov, 16:34
3-5km N	Recorded	6	Projectile	WSW to ENE	N/K	25-Nov, 16:35
3-5km N	Recorded	4	Projectile	E to W	N/K	25-Nov, 16:38
3-5km N	Recorded	2	Projectile	SW to NE	N/K	25-Nov, 16:39

	3-5km N	Recorded	2	Projectile	SE to NW	N/K	25-Nov, 16:40
	3-5km N	Recorded	1	Projectile	ESE to WNW	N/K	25-Nov, 16:41
	3-5km N	Recorded	3	Projectile	ESE to WNW	N/K	25-Nov, 16:42
	3-5km N	Recorded	2	Projectile	SE to NW	N/K	25-Nov, 16:43
	3-5km N	Recorded	3	Explosion	Undetermined	N/K	25-Nov, 16:48
	3-5km N	Recorded	5	Projectile	ESE to WNW	N/K	25-Nov, 16:48
	3-5km N	Recorded	2	Projectile	ESE to WNW	N/K	25-Nov, 16:49
	3-5km N	Recorded	4	Projectile	ESE to WNW	N/K	25-Nov, 16:50
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	25-Nov, 16:50
	3-5km N	Recorded	1	Projectile	E to W	N/K	25-Nov, 16:51
	3-5km NNE	Recorded	1	Explosion	Undetermined	N/K	25-Nov, 16:52
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	25-Nov, 16:53
	3-5km N	Recorded	2	Projectile	E to W	N/K	25-Nov, 16:53
	3-5km N	Recorded	7	Projectile	ESE to WNW	N/K	25-Nov, 16:54
	3-5km N	Recorded	2	Projectile	E to W	N/K	25-Nov, 17:00
	3-5km N	Recorded	2	Projectile	E to W	N/K	25-Nov, 17:01
	3-5km N	Recorded	2	Projectile	W to E	N/K	25-Nov, 17:03
	3-5km N	Recorded	1	Projectile	W to E	N/K	25-Nov, 17:04
	3-5km NNE	Recorded	6	Projectile	E to W	N/K	25-Nov, 17:18
	3-5km NNE	Recorded	4	Projectile	E to W	N/K	25-Nov, 17:22
	3-5km NE	Recorded	1	Projectile	E to W	N/K	25-Nov, 17:47
	3-5km N	Recorded	3	Projectile	W to E	N/K	25-Nov, 17:50
	3-5km NNE	Recorded	4	Projectile	E to W	N/K	25-Nov, 17:52
	3-5km N	Recorded	6	Projectile	E to W	N/K	25-Nov, 17:58
	3-5km N	Recorded	3	Projectile	W to E	N/K	25-Nov, 18:03
	3-5km NNE	Recorded	1	Explosion	Undetermined	N/K	25-Nov, 18:05
	3-5km N	Recorded	2	Projectile	E to W	N/K	25-Nov, 18:05
	3-5km NNE	Recorded	8	Projectile	E to W	N/K	25-Nov, 18:07
	3-5km N	Recorded	2	Projectile	W to E	N/K	25-Nov, 18:08
SE edge of Avdiivka (government-controlled, 17km N of Donetsk)	2-3km S	Heard	1	Explosion	Undetermined	N/K	25-Nov, 09:50
E edge of Avdiivka (government-controlled, 17km N of Donetsk)	2km ESE	Heard	1	Explosion	Undetermined	N/K	25-Nov, 11:16
	2km ENE	Heard	2	Explosion	Undetermined	N/K	25-Nov, 11:33
Marinka (government-controlled, 23km SW of Donetsk)	2-3km E	Heard	6	Explosion	Undetermined	N/K	25-Nov, 12:30
	2-3km E	Heard	8	Burst		HMG	25-Nov, 12:32
	2-3km E	Heard	9	Burst		HMG	25-Nov, 12:35
About 1.8km N of Petrivske (non-government-controlled, 41km S of Donetsk)	1-2km SE	Heard	1	Shot	Assessed as outside the disengagement area	Small arms	25-Nov, 09:19
About 1km NW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	4-5km NNW	Heard	1	Explosion	Undetermined	N/K	25-Nov, 12:10
Svitlodarsk (government-controlled, 57km NE of Donetsk)	5-6km S	Heard	2	Explosion	Undetermined	N/K	24-Nov, 18:40
	3-4km SE	Heard	2	Burst		HMG	24-Nov, 18:59
	3-4km S	Heard	4	Burst		HMG	24-Nov, 19:13
	3-4km S	Heard	9	Burst		HMG	24-Nov, 19:16
	3-4km S	Heard	6	Shot		Small arms	24-Nov, 19:40
	3-4km SE	Heard	11	Burst		HMG	24-Nov, 20:05-20:11

	5-6km SE	Heard	1	Explosion	Undetermined	N/K	24-Nov, 20:45
	3-4km SE	Heard	3	Burst		HMG	24-Nov, 21:12
	5-6km SE	Heard	1	Explosion	Undetermined	N/K	24-Nov, 21:30
	5-6km SE	Heard	1	Explosion	Undetermined	N/K	24-Nov, 21:59
	3-4km SE	Heard	5	Burst		HMG	24-Nov, 22:20
	3-4km SE	Heard	6	Burst		HMG	24-Nov, 22:26
	5-6km SE	Heard	1	Explosion	Undetermined	N/K	24-Nov, 23:00
	5-6km SE	Heard	2	Explosion	Undetermined	N/K	24-Nov, 23:03
	5-6km SE	Heard	3	Explosion	Undetermined	N/K	24-Nov, 23:09
	5-6km SE	Heard	1	Explosion	Undetermined	N/K	24-Nov, 23:14
	5-6km SE	Heard	2	Explosion	Undetermined	N/K	24-Nov, 23:18
	3-4km SE	Heard	11	Burst		HMG	24-Nov, 23:18-23:20
	3-4km SE	Heard	3	Shot		Small arms	24-Nov, 23:20
	5-6km SE	Heard	1	Explosion	Undetermined	N/K	24-Nov, 23:28
	3-4km SE	Heard	4	Burst		HMG	24-Nov, 23:30
	5-6km SE	Heard	1	Explosion	Undetermined	N/K	24-Nov, 23:32
	5-6km SE	Heard	1	Explosion	Undetermined	N/K	24-Nov, 23:53
	5-6km S	Heard	1	Explosion	Undetermined	N/K	25-Nov, 07:40
	5-6km S	Heard	1	Explosion	Undetermined	N/K	25-Nov, 08:51
	5-6km S	Heard	1	Explosion	Undetermined	N/K	25-Nov, 09:04
	5-6km S	Heard	2	Explosion	Undetermined	N/K	25-Nov, 09:36
	5-6km S	Heard	3	Explosion	Undetermined	N/K	25-Nov, 12:03
	3-4km S	Heard	12	Burst		HMG	25-Nov, 12:03
	5-6km S	Heard	3	Explosion	Undetermined	N/K	25-Nov, 14:10
	5-6km S	Heard	8	Explosion	Undetermined	N/K	25-Nov, 14:15-14:23
	5-6km S	Heard	6	Explosion	Undetermined	N/K	25-Nov, 14:20-14:30
	5-6km S	Heard	21	Explosion	Undetermined	N/K	25-Nov, 15:30-15:40
	4-5km S	Heard	36	Explosion	Undetermined	N/K	25-Nov, 15:40-16:10
	3-4km S	Heard	5	Burst		HMG	25-Nov, 17:55
	5-6km S	Heard	2	Explosion	Undetermined	N/K	25-Nov, 18:10
	5-6km S	Heard	2	Explosion	Undetermined	N/K	25-Nov, 18:14
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	2km SE	Heard	1	Explosion	Undetermined	N/K	25-Nov, 11:09
	3km SE	Heard	3	Explosion	Undetermined	N/K	25-Nov, 11:12
Holmivskiyi (non-government-controlled, 49km NE of Donetsk)	4-5km E	Heard	2	Explosion	Undetermined	N/K	25-Nov, 09:34
	2-3km NE	Heard	2	Explosion	Undetermined	N/K	25-Nov, 09:49
	4-5km E	Heard	2	Explosion	Undetermined	N/K	25-Nov, 10:32
	4-5km NW	Heard	1	Explosion	Undetermined	N/K	25-Nov, 11:00
	2-3km NE	Heard	2	Explosion	Undetermined	N/K	25-Nov, 11:22-11:24
	2-3km NE	Heard	3	Explosion	Undetermined	N/K	25-Nov, 11:28
Kodema (government-controlled, 57km NE of Donetsk)	4-5km SE	Heard	1	Explosion	Undetermined	N/K	25-Nov, 09:24
	4-5km SE	Heard	3	Explosion	Undetermined	N/K	25-Nov, 09:39
	4-5km SE	Heard	1	Explosion	Undetermined	N/K	25-Nov, 10:35
	4-5km SE	Heard	1	Explosion	Undetermined	N/K	25-Nov, 11:47
SSE edge of Nelipivka (government-controlled, 40km NE of Donetsk)	1-2km E	Heard	9	Burst		Small arms	25-Nov, 11:50-11:56
NW edge of Horlivka (non-	1-2km S	Heard	1	Explosion	Undetermined	N/K	25-Nov, 12:12

government controlled, 39km NE of Donetsk)							
N edge of Popasna (government-controlled, 69km W of Luhansk)	4-6km SE	Heard	12	Explosion	Undetermined		24-Nov, 23:16-23:25
	4-5km ESE	Heard	14	Burst	Undetermined (assessed as outside the disengagement area)	Small arms	24-Nov, 23:32
	4-5km ESE	Heard	28	Burst	Undetermined (assessed as outside the disengagement area)	Small arms	25-Nov, 00:02-00:06
	4-6km SE	Heard	1	Explosion	Undetermined		25-Nov, 00:18
	4-5km ESE	Heard	37	Burst	Undetermined (assessed as outside the disengagement area)	HMG	25-Nov, 00:26-00:28
Kadiivka (formerly Stakhanov, non-government-controlled, 50km W of Luhansk)	10-17km NW	Heard	10	Explosion	Undetermined (unable to assess if inside or outside the Zolote disengagement area)	N/K	24-Nov, 23:21-23:29
	10-17km NW	Heard	1	Explosion	Undetermined (unable to assess if inside or outside the Zolote disengagement area)	N/K	25-Nov, 00:16
Muratove (government-controlled, 51km NW of Luhansk)	6-8km S	Heard	10	Explosion	Undetermined	N/K	25-Nov, 10:08-10:15

### Map of Donetsk and Luhansk regions<sup>10</sup>



<sup>10</sup> The SMM is deployed to ten locations throughout Ukraine – Kherson, Odessa, Lviv, Ivano-Frankivsk, Kharkiv, Donetsk, Dnipro, Chernivtsi, Luhansk and Kyiv – as per Permanent Council Decision 1117 of 21 March 2014. This map of eastern Ukraine is meant for illustrative purposes and indicates locations mentioned in the report, as well as those where the SMM has offices (monitoring teams, patrol hubs, and forward patrol bases) in Donetsk and Luhansk regions. (In red: a forward patrol base from which SMM staff has 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 patrols in this settlement during daylight hours, as well).