

# Daily Report 303/2019

23 December 2019<sup>1</sup>

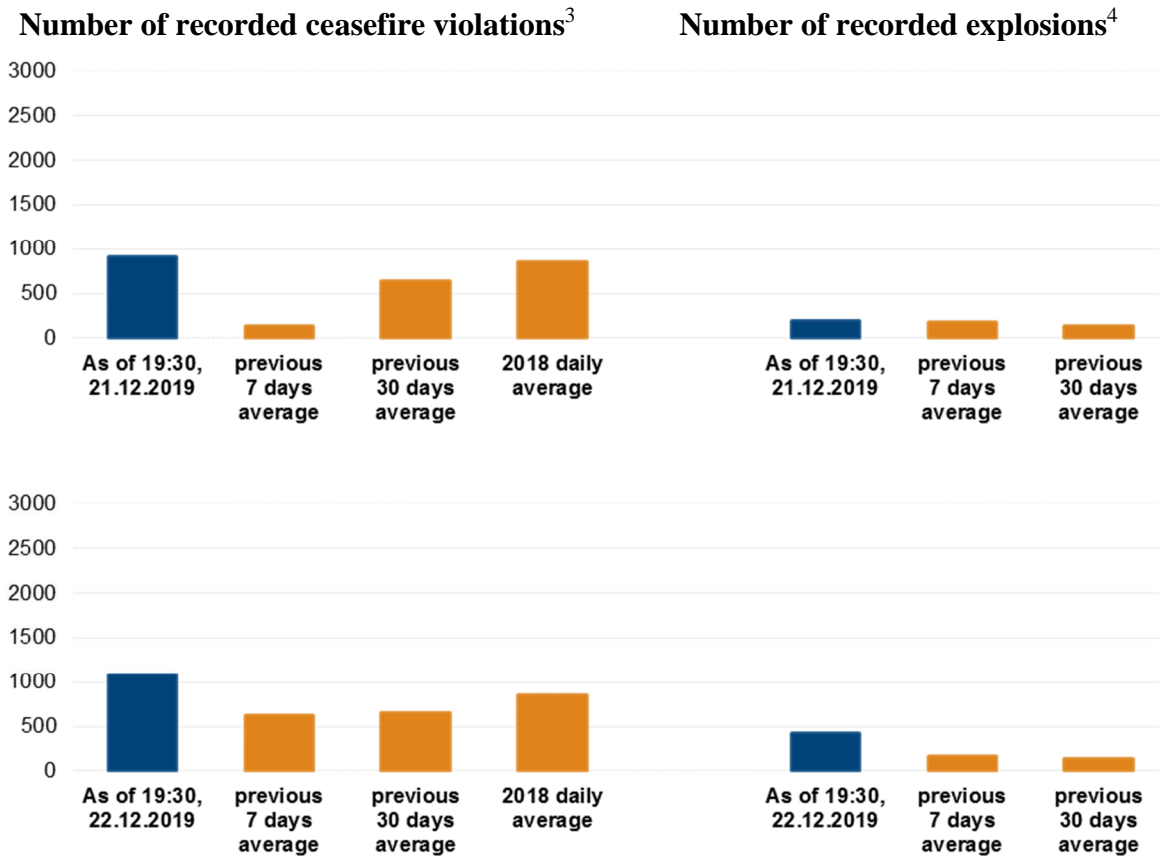
## Summary

- Compared with the previous reporting period, between the evenings of 20 and 21 December, the SMM recorded more ceasefire violations in Donetsk region and fewer in Luhansk region.
- Between the evenings of 21 and 22 December, the Mission recorded more ceasefire violations in Donetsk region and fewer in Luhansk region, compared with the previous 24 hours.
- The SMM continued monitoring the situation at the three disengagement areas near Petrivske, Zolote and Stanytsia Luhanska.
- The Mission saw long queues of civilians at checkpoints along the contact line.
- It monitored adherence to localized ceasefires to facilitate the drilling of water wells near Pankivka and continued to monitor the security situation around the pumping station near Vasylivka and facilitate the operation of the Donetsk Filtration Station.
- The SMM's freedom of movement continued to be restricted, including at a checkpoint of the armed formations near Verkhnohyrokiivske in southern Donetsk region.\*

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<sup>1</sup> Based on information from the Monitoring Teams as of 19:30, 22 December 2019. All times are in Eastern European Time.

**Ceasefire violations<sup>2</sup>**



<sup>2</sup> For a complete breakdown of ceasefire violations, please see the annexed table. During the evenings of 20-21 December, the SMM camera in Zolote was not operational. During the evenings of 20-22 December, the SMM camera at the Prince Ihor Monument south-east of the Stanytsia Luhanska bridge was not operational.

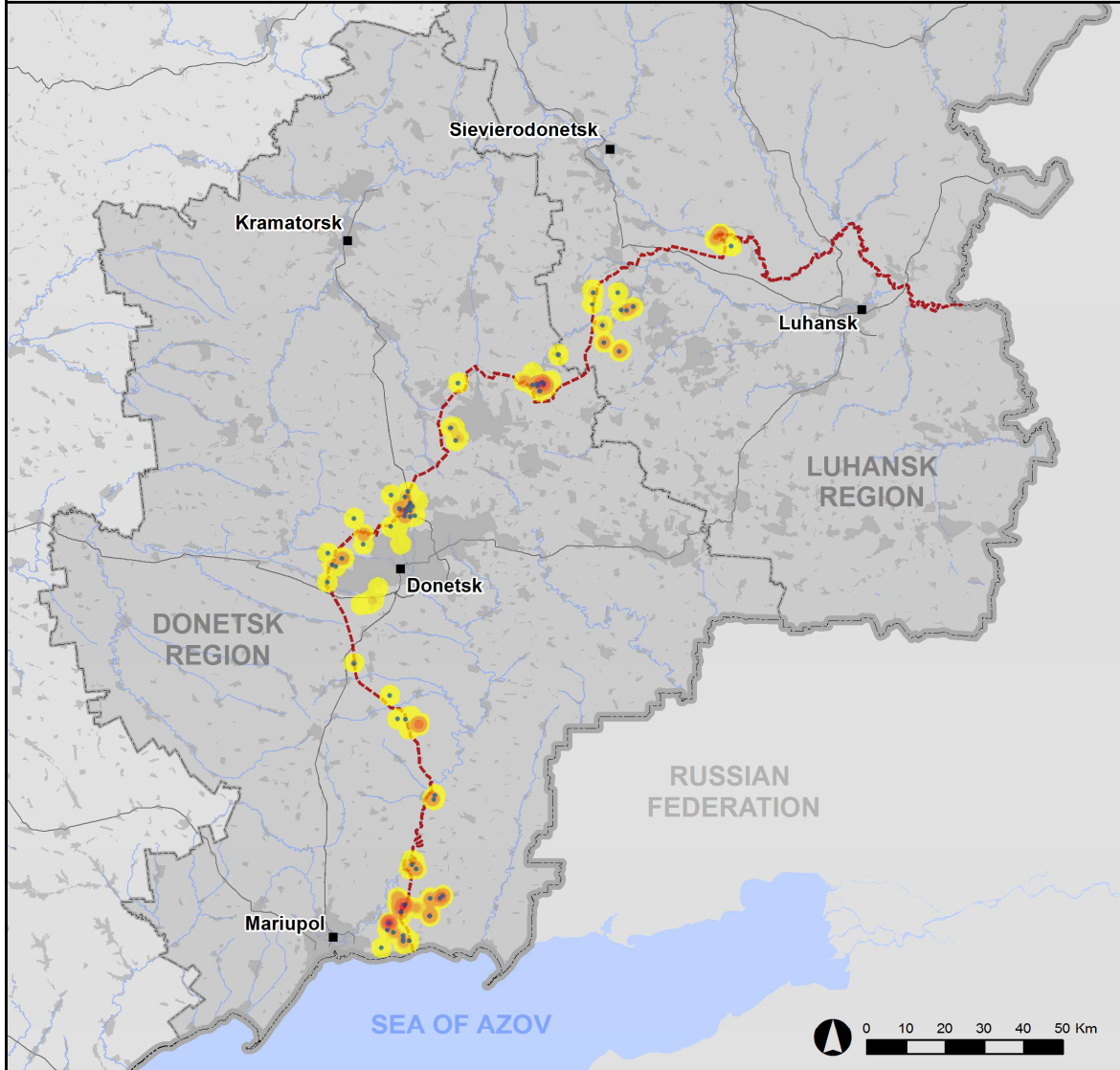
<sup>3</sup> Including explosions.

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

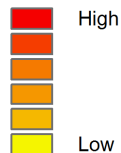
### Map of recorded ceasefire violations

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

## Ceasefire violations observed by the SMM 21-22 December 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: 23/12/2019

In Donetsk region, between the evenings of 20 and 21 December, the SMM recorded more ceasefire violations, including, however, fewer explosions (about 110), compared with the [previous reporting period](#) (about 120 explosions). The majority of ceasefire violations were recorded at southerly directions of Svitlodarsk (government-controlled, 57km north-east of Donetsk), in areas south-south-east of Pyshechyk (government-controlled, 84km south of Donetsk) and in southerly and westerly directions of Petrivske (non-government-controlled, 41km south-west of Donetsk).

On the morning of 21 December, while positioned in a residential area in the north-eastern part of Krasnohorivka (government-controlled, 21km west of Donetsk), the SMM heard and saw an explosion, assessed as an impact, at a range of 300-500m north. The SMM safely left the area.

Between the evenings of 21 and 22 December, the SMM recorded more ceasefire violations, including more explosions (370), compared with the previous 24 hours. The majority of ceasefire violations were recorded at easterly directions of Lomakyne (government-controlled, 93km south of Donetsk), southerly directions of Svitlodarsk and in areas south-east of Chernenko (government-controlled, 86km south of Donetsk).

In Luhansk region, between the evenings of 20 and 21 December, the SMM recorded fewer ceasefire violations, including fewer explosions (about 90), compared with the [previous reporting period](#) (about 330 explosions). The majority of ceasefire violations were recorded at southerly directions of Kriakivka (government-controlled, 38km north-west of Luhansk) and in areas south-west of Kadiivka (formerly Stakhanov, non-government-controlled, 50km west of Luhansk).

Between the evenings of 21 and 22 December, the SMM recorded fewer ceasefire violations, almost all of which were explosions (45), compared with the previous 24 hours. The majority of ceasefire violations were recorded in areas south-south-west of Kalynove (non-government-controlled, 60km west of Luhansk) and areas south-east of Popasna (government-controlled, 69km west of Luhansk).

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

On the evening of 20 December, an SMM long-range unmanned aerial vehicle (UAV) spotted a person near positions of the armed formations on the eastern edge of the **disengagement area near Petrivske**, about 550m south-south-east of the area's northern edge.

On 21 December, positioned at two locations in and near Petrivske, the SMM heard undetermined explosions, bursts, and shots of small-arms fire at a range of 1-5km in northerly, westerly, and southerly directions, all of which were assessed as outside of the disengagement area but within its 5km periphery.

On the morning of 22 December, positioned about 1.8km north of Petrivske, the SMM heard eight bursts of heavy-machine-gun fire at a range of 3-4km south-south-west (unable to assess whether inside or outside the disengagement area).

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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.

On 22 December, on the southern edge of **the disengagement area near Zolote** (government-controlled, 60km west of Luhansk), the SMM saw three members of the armed formations (wearing armbands with “JCCC” written on them).

On 20 December, outside the **disengagement area near Stanytsia Luhanska** (government-controlled, 16km north-east of Luhansk), an SMM mini-UAV [again](#) spotted an infantry fighting vehicle (IFV) (BTR-3E) under camouflage net, about 50m north of the area’s northern edge, assessed as belonging to the Ukrainian Armed Forces.

On 21 December, inside the disengagement area, the SMM saw that a new fence had been installed on the western side of the road south of the Stanytsia Luhanska bridge (15km north of Luhansk) between a container of an international organization and the checkpoint of the armed formations, and also saw four workers from non-government-controlled areas welding parts for the new fence. On 22 December, the SMM saw that a similar fence had been installed on the eastern side of the road. On 21 December, the SMM saw eight members of the armed formations and, on 22 December, five members the armed formations, all wearing armbands with “JCCC” written on them, between the new section of the bridge and the checkpoint of the armed formations south of it.

### **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.

On 21 December, the SMM saw three self-propelled and three towed howitzers in a training area near Myrne (non-government-controlled, 28km south-west of Luhansk), beyond withdrawal lines but outside of designated storage sites (for further details, see the table 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 in Donetsk and Luhansk regions, including two IFVs in a residential area (for further details, see the table below).

### **Unexploded ordnance (UXO) removed near Pionerske**

On 22 December, in a field next to a checkpoint of the armed formations on the south-western edge of Pionerske (non-government-controlled, 19km east of Luhansk), the SMM saw that a piece of [previously reported](#) UXO was no longer present.

### **Long queues at checkpoints along the contact line**

On 21 and 22 December, the SMM observed long lines at checkpoints along the contact line in both Donetsk and Luhansk regions. In Luhansk region, at the entry-exit checkpoint (EECP) near Stanytsia Luhanska, the SMM saw up to 1,000 people waiting to exit government-controlled areas on three occasions and up to 600 people waiting to enter government-controlled areas on two occasions on 21 December.

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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.

In Donetsk region, at a checkpoint near Kreminets (non-government-controlled, 16km south-west of Donetsk), the SMM saw over 200 cars queuing to travel towards government-controlled areas on 21 December. At a checkpoint near Marinka (government-controlled, 23km south-west of Donetsk), it saw over 400 pedestrians traveling towards government-controlled areas and over 200 pedestrians waiting to exit government-controlled areas at the EECP near Marinka. Additionally, at a checkpoint near Olenivka (non-government-controlled, 23km south-west of Donetsk), it saw over 300 cars queuing to travel to government-controlled areas. At a checkpoint near Horlivka (non-government-controlled, 39km north-east of Donetsk), the SMM saw over 200 pedestrians and over 400 cars queuing to travel to government-controlled areas, and over 350 pedestrians queuing to travel in the other direction on 22 December. On the same day, at the EECP near Novotroitske (government-controlled, 57km north-west of Donetsk), the SMM saw no traffic inside of the EECP but saw 100 pedestrians and 100 vehicles queuing to travel to non-government-controlled areas. A member of the State Border Guard Service told the SMM that the EECP was temporarily not operational due to electrical repairs. Later in the day, the SMM saw that the EECP was operational but that the number of people and vehicles queuing was similar.

On 21 and 22 December, six people at a checkpoint near Kreminets told the SMM that they had slept in their cars overnight to maintain their place in the queue. The SMM also saw that people queuing in the area of the checkpoint were leaving the paved surface to relieve themselves in nearby bushes, despite the risk of mines and UXO. People in the queue explained that the only toilets are located close to the checkpoint.

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

On 21 December, while at a border crossing point near Uspenka (73km south-east of Donetsk) for about 55 minutes, the SMM saw 19 cars (five with Ukrainian, six with Russian Federation and one with Armenian licence plates, as well as seven with “DPR” plates), one covered cargo truck (with “DPR” plates), one bus (with “DPR” plates), and 15 pedestrians (mixed ages and genders) entering Ukraine. It also saw nine cars (two with Ukrainian and four with Russian Federation licence plates, as well as three with “DPR” plates), two covered cargo trucks (one with Ukrainian licence plates and one with “DPR” plates), one bus with Russian Federation licence plates and nine pedestrians (mixed ages and genders) exiting Ukraine.

On the same day, while at a pedestrian border crossing point near Ulianivske (61km south-east of Donetsk) for about 25 minutes, the SMM did not see any pedestrian traffic.

On 22 December, while at a border crossing point near Markyne (94km south of Donetsk) for 45 minutes, the SMM saw seven cars (two with Ukrainian and four with Russian Federation licence plates, as well as one with “DPR” plates) entering Ukraine and seven covered cargo trucks (six with Ukrainian licence plates and one with “DPR” plates) exiting Ukraine.

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

On 20-21 December, it also monitored adherence to localized ceasefires to facilitate the drilling of water wells near Pankivka (non-government-controlled, 16km north of Luhansk) and continued to facilitate the operation of the Donetsk Filtration Station (15km north of Donetsk). On 21 December, the SMM monitored the security situation around the pumping station near Vasylivka (non-government-controlled, 20km north of Donetsk).

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

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

*The SMM's monitoring and freedom of movement are restricted by security hazards and threats, including risks posed by mines, 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 Co-ordination 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 21 December 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:

- On 21 December, on two occasions at a checkpoint west of Verkhnoшыrokivske (formerly Oktiabr, non-government-controlled, 85km south of Donetsk), a member of the armed formations denied the SMM passage, citing an “ongoing operation.”

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

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

#### Delay:

- On 22 December, at a checkpoint west of Verkhnoшыrokivske, a member of the armed formations allowed the SMM to proceed only after 34 minutes of waiting.

#### Other impediments:

- On the evening of 20 December, an SMM long-range UAV experienced GPS signal interference, assessed as caused by jamming, while flying over areas near Starobesheve (non-government-controlled, 32km south-east of Donetsk), as well as signal interference, assessed as caused by probable jamming, while flying over areas near Krasnohorivka (government-controlled, 21km west of Donetsk).<sup>7</sup>

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

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

Date	No. of weapons	Type of weapon	Location	Source of observation
<b>Non-government-controlled areas</b>				
21/12/2019	3	Self-propelled howitzer (2S1 <i>Gvozdika</i> , 122mm)	In a training area near Myrne (28km south-west of Luhansk)	Patrol
	3	Towed howitzer (D-30 <i>Lyagushka</i> , 122mm)		

**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>				
20/12/2019	1	Armoured combat vehicle	Near Popasna (69km west of Luhansk)	Mid-range UAV
	1	Infantry fighting vehicle (IFV) (BMP variant)		
	1	IFV (BMP variant)	Near Taramchuk (29km south-west of Donetsk)	Long-range UAV
	1	IFV (BMP-1)	At a checkpoint near Berezove (31km south-west of Donetsk)	
	3	IFV (BMP variant)	Near Berezove	
	2	IFV (BMP variant)	South-west of Bohdanivka (41km south-west of Donetsk)	
	2	IFV (BMP-1)	Near Troitske (69km west of Luhansk)	Mini-UAV
2	IFV (BMP-2)	In a residential part of Zolote-3/Stakhanovets (61km west of Luhansk)		
21/12/2019	1	Trench digger	Western outskirts of Zolote-4/Rodina (59km north-west of Luhansk)	Patrol
	1	Armoured personnel carrier (APC) (BTR-60)	At a checkpoint near Novokalynove (29km north-west of Donetsk)	
	2	APC (MT-LB)	Near Novoselivka Druha (69km south of Donetsk)	
22/12/2019	3	IFV (BMP variant)	In Popasna	Patrol
	1	Military Heavy Utility Truck	In a residential area of Popasna	
	1	APC (BTR-60)	Near Novobakhmutivka (28km north of Donetsk)	
<b>Non-government-controlled areas</b>				
20/12/2019	1	IFV (BMP-1)	About 1.5km south-west of Petrivske (41km south-west of Donetsk)	Long-range 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 22 December 2019<sup>9</sup>**

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera in Berezove (government-controlled, 31km SW of Donetsk)	2-4km SE	Recorded	1	Projectile	WSW to ENE	N/K	20-Dec, 19:30
	2-4km SE	Recorded	1	Projectile	WSW to ENE	N/K	20-Dec, 19:32
	2-4km SE	Recorded	1	Projectile	WSW to ENE	N/K	20-Dec, 19:33
	2-4km SE	Recorded	1	Explosion	Impact	N/K	20-Dec, 19:33
	2-4km SE	Recorded	1	Projectile	WSW to ENE	N/K	20-Dec, 19:36
	2-4km SE	Recorded	1	Explosion	Impact	N/K	20-Dec, 19:36
	2-4km SE	Recorded	1	Projectile	WSW to ENE	N/K	20-Dec, 19:37
	2-4km SE	Recorded	1	Projectile	WNW to ESE	N/K	20-Dec, 19:37
	2-4km SE	Recorded	1	Projectile	WSW to ENE	N/K	20-Dec, 19:44
	2-4km SE	Recorded	1	Explosion	Impact	N/K	20-Dec, 19:44
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	2-4km SSE	Recorded	10	Projectile	W to E	N/K	21-Dec, 16:51
	2-4km SSE	Recorded	1	Projectile	W to E	N/K	21-Dec, 16:53
	2-4km SSE	Recorded	1	Projectile	W to E	N/K	21-Dec, 17:53
	2-4km SSE	Recorded	2	Projectile	W to E	N/K	21-Dec, 17:55
	1.5-2km ESE	Recorded	2	Projectile	N to S	N/K	21-Dec, 18:22
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	1-3km SSW	Recorded	1	Explosion	Undetermined	N/K	20-Dec, 18:50
	1-3km SSW	Recorded	3	Explosion	Undetermined	N/K	20-Dec, 18:55
	2-4km SSW	Recorded	2	Explosion	Undetermined	N/K	20-Dec, 22:05
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	21-Dec, 00:19
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	21-Dec, 00:19
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	21-Dec, 17:14
SMM camera in Hranitne (government-controlled, 60km S of Donetsk)	2-3km ESE	Recorded	13	Projectile	N to S	N/K	20-Dec, 20:11
	2-3km ESE	Recorded	1	Illumination flare	In vertical flight	N/K	20-Dec, 20:17
	2-3km ESE	Recorded	2	Illumination flare	In vertical flight	N/K	20-Dec, 20:29
	2-3km ESE	Recorded	1	Illumination flare	In vertical flight	N/K	20-Dec, 20:30
	2-3km ESE	Recorded	3	Projectile	NW to SE	N/K	20-Dec, 20:32
	2-3km ESE	Recorded	1	Projectile	NW to SE	N/K	20-Dec, 20:33
	2-3km ESE	Recorded	2	Illumination flare	In vertical flight	N/K	20-Dec, 20:33
	2-3km ESE	Recorded	31	Projectile	NW to SE	N/K	20-Dec, 20:36
SMM camera in Krasnohorivka (government-controlled, 21km W of Donetsk)	2-4km ESE	Recorded	1	Explosion	Airburst	N/K	21-Dec, 18:24
SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)	2-3km NNE	Recorded	1	Explosion	Undetermined	N/K	21-Dec, 01:22
SMM camera at Oktiabr mine (non-government-controlled, 9km NW of Donetsk city centre)	2-4km NE	Recorded	1	Explosion	Undetermined	N/K	21-Dec, 01:11
About 1.9km NE of Donetsk central railway station(non-government-	2-4km SSE	Heard	1	Burst		HMG	21-Dec, 10:27

<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.

controlled, 6km NW of Donetsk city centre)							
About 2.8km NNW of Luhanske (non-government-controlled, 15km SW of Donetsk)	2-3km SW	Heard	1	Burst		HMG	21-Dec, 08:51
	3-4km NE	Heard	1	Shot		HMG	21-Dec, 09:01
	1-2km S	Heard	1	Shot		Small arms	21-Dec, 09:03
	1-2km SSE	Heard	1	Shot		Small arms	21-Dec, 09:08
	1km SE	Heard	2	Shot		Small arms	21-Dec, 09:14
	1-2km ESE	Heard	7	Shot		Small arms	21-Dec, 09:19-09:24
Staromykhailivka (non-government-controlled, 15km W of Donetsk)	1-3km W	Heard	1	Explosion	Undetermined	N/K	21-Dec, 10:17
	1-3km W	Heard	30	Burst		Small arms	21-Dec, 10:17
	1-2km W	Heard	8	Burst		Small arms	21-Dec, 10:25
Petrivske (non-government-controlled, 41km S of Donetsk)	1km NW	Heard	2	Shot	Assessed as outside the disengagement area	Small arms	21-Dec, 12:17
	2.5-3km SSW	Heard	1	Burst	Assessed as outside the disengagement area	Small arms	21-Dec, 12:20
	3-5km W	Heard	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	21-Dec, 12:32
	1-2km SE	Heard	2	Burst	Assessed as outside the disengagement area	Small arms	21-Dec, 12:35
	2km S	Heard	1	Burst	Assessed as outside the disengagement area	Small arms	21-Dec, 12:46
	2km SE	Heard	1	Burst	Assessed as outside the disengagement area	Small arms	21-Dec, 12:47
	2km SE	Heard	1	Burst	Assessed as outside the disengagement area	Small arms	21-Dec, 12:55
	2km SE	Heard	1	Shot	Assessed as outside the disengagement area	Small arms	21-Dec, 12:57
	2km W	Heard	3	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	21-Dec, 13:03
	2km SE	Heard	6	Burst	Assessed as outside the disengagement area	Small arms	21-Dec, 13:05
	2km SE	Heard	60	Shot	Assessed as outside the disengagement area	Small arms	21-Dec, 13:06-13:10

About 1.8km N of Petrivske (non-government-controlled, 41km S of Donetsk)	2-3km SSE	Heard	28	Shot	Assessed as outside the disengagement area	Small arms	21-Dec, 13:36
Krasnohorivka (government-controlled, 21km W of Donetsk)	0.3-0.5km N	Heard and saw	1	Explosion	Impact	N/K	21-Dec, 12:29
Pervomaiske (government-controlled, 17km NW of Donetsk)	3-5km S	Heard	4	Explosion	Undetermined	N/K	21-Dec, 10:16
	1-2km S	Heard	16	Burst		Small arms	21-Dec, 10:17-10:18
	1-2km S	Heard	16	Burst		Small arms	21-Dec, 10:25
	3-4km NW	Heard	5	Explosion	Undetermined	N/K	21-Dec, 10:43
Lebedynske (government-controlled, 99km S of Donetsk)	2km NE	Heard	9	Explosion	Undetermined	N/K	21-Dec, 09:53-09:56
	2km NE	Heard	14	Explosion	Undetermined	N/K	21-Dec, 09:57-10:00
About 2km SW of Pyshechyk (government-controlled, 84km S of Donetsk)	5km SSE	Heard	23	Explosion	Undetermined	N/K	21-Dec, 09:53-10:00
	4-5km SSE	Heard	12	Burst		HMG	21-Dec, 09:53-10:00
	5km SSE	Heard	3	Explosion	Undetermined	N/K	21-Dec, 10:02-10:12
	4-5km SSE	Heard	6	Burst		Small arms	21-Dec, 10:02-10:12
	4-5km SSE	Heard	10	Burst		HMG	21-Dec, 10:02-10:12
	5km SSE	Heard	5	Explosion	Undetermined	N/K	21-Dec, 10:15-10:25
	4-5km SSE	Heard	12	Shot		Small arms	21-Dec, 12:56
	4-5km SSE	Heard	4	Burst		Small arms	21-Dec, 12:56
	3-4km SSE	Heard	56	Burst		Small arms	21-Dec, 13:12-13:20
About 2km NE Bohdanivka (government-controlled, 41km SW of Donetsk)	5-8km NNW	Heard	1	Explosion	Undetermined (assessed as outside the Petrivske disengagement area)	N/K	21-Dec, 13:00
Horlivka (non-government-controlled, 39km NE of Donetsk)	4-5km W	Heard	6	Explosion	Undetermined	N/K	20-Dec, 18:55-18:58
	3-4km SW	Heard	14	Burst		HMG	20-Dec, 19:00-19:04
	4-5km W	Heard	1	Explosion	Undetermined	N/K	20-Dec, 19:37
	4-5km W	Heard	1	Explosion	Undetermined	N/K	20-Dec, 21:30
	3-4km W	Heard	6	Burst		HMG	20-Dec, 21:33-21:34
	4-5km W	Heard	1	Explosion	Undetermined	N/K	21-Dec, 13:45
Svitlodarsk (government-controlled, 57km NE of Donetsk)	2-4km SW	Heard	3	Burst		HMG	20-Dec, 18:46
	2-4km SSE	Heard	2	Burst		HMG	20-Dec, 18:46
	2-4km SSE	Heard	3	Burst		HMG	20-Dec, 18:48
	2-4km SSE	Heard	1	Burst		HMG	20-Dec, 19:00
	4-6km ESE	Heard	2	Burst		HMG	20-Dec, 19:01
	2-4km SSE	Heard	1	Burst		HMG	20-Dec, 19:02
	2-4km SSE	Heard	4	Burst		HMG	20-Dec, 19:09
	4-6km SSE	Heard	6	Burst		HMG	20-Dec, 19:14-19:15
	2-4km SSE	Heard	5	Burst		HMG	20-Dec, 19:25-19:26
	2-4km SSE	Heard	2	Burst		HMG	20-Dec, 19:32

	2-4km SW	Heard	3	Burst		HMG	20-Dec, 19:42
	2-4km SW	Heard	3	Burst		HMG	20-Dec, 19:45
	2-4km SSE	Heard	6	Burst		HMG	20-Dec, 19:46-19:48
	2-4km SW	Heard	4	Burst		HMG	20-Dec, 19:47-19:48
	2-4km SSE	Heard	2	Burst		HMG	20-Dec, 19:52
	2-4km SW	Heard	4	Burst		HMG	20-Dec, 19:57-19:58
	2-4km SSE	Heard	2	Burst		HMG	20-Dec, 20:00
	2-4km SSE	Heard	3	Explosion	Undetermined	N/K	20-Dec, 20:19-21:21
	2-4km SW	Heard	2	Burst		HMG	20-Dec, 20:24
	2-4km SSE	Heard	2	Burst		HMG	20-Dec, 20:25
	2-4km SW	Heard	2	Burst		HMG	20-Dec, 20:28
	2-4km SW	Heard	6	Burst		HMG	20-Dec, 20:57-20:58
	2-4km SSE	Heard	1	Burst		HMG	20-Dec, 20:59
	4-6km ESE	Heard	5	Burst		HMG	20-Dec, 21:04
	2-4km SSE	Heard	2	Burst		HMG	20-Dec, 21:13
	2-5km SE	Heard	7	Shot		Small arms	20-Dec, 22:13
	2-5km SE	Heard	13	Burst		HMG	20-Dec, 22:13
	2-5km SE	Heard	12	Burst		HMG	20-Dec, 22:27
	2-5km SE	Heard	4	Burst		HMG	20-Dec, 22:31
	4-6km SE	Heard	7	Burst		HMG	20-Dec, 22:34
	4-6km SE	Heard	4	Burst		HMG	20-Dec, 22:37
	4-6km SE	Heard	5	Shot		Small arms	20-Dec, 22:50
	4-6km SE	Heard	12	Burst		HMG	20-Dec, 22:57-22:58
	3-6km SE	Heard	17	Shot		Small arms	20-Dec, 23:09-23:12
	3-6km SE	Heard	8	Burst		HMG	20-Dec, 23:13
	3-6km SE	Heard	10	Burst		HMG	20-Dec, 23:16
	3-6km SE	Heard	7	Shot		Small arms	20-Dec, 23:27
	3-6km SE	Heard	9	Shot		Small arms	20-Dec, 23:32
	3-6km SE	Heard	8	Burst		Small arms	20-Dec, 23:46
	N/K SE	Heard	5	Burst		HMG	20-Dec, 23:48
N Edge of Myronivka (government controlled, 64 km NE of Donetsk)	3-5km SE	Heard	1	Explosion	Undetermined	N/K	21-Dec, 10:58
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	21-Dec, 11:04
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	21-Dec, 11:11
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	21-Dec, 11:15
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	21-Dec, 11:16
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	21-Dec, 11:30
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	21-Dec, 11:32
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	21-Dec, 11:37
Kurdiumivka (government-controlled, 54km N of Donetsk)	7-8km S	Heard	2	Explosion	Undetermined	N/K	21-Dec, 11:58
SMM camera in Kriakivka (government-controlled, 38km NW of Luhansk)	3-5km SSW	Recorded	2	Projectile	WNW to ESE	N/K	21-Dec, 03:07
	3-5km SSW	Recorded	2	Projectile	WNW to ESE	N/K	21-Dec, 03:09
	5-7km SW	Recorded	1	Burst	SE to NW	N/K	21-Dec, 16:25
	5-7km SW	Recorded	1	Burst	NNW to SSE	N/K	21-Dec, 16:25
	5-7km SW	Recorded	9	Projectile	ESE to WNW	N/K	21-Dec, 16:26
	3-5km SW	Recorded	26	Projectile	NNW to SSE	N/K	21-Dec, 16:26
	3-5km SW	Recorded	7	Projectile	NNW to SSE	N/K	21-Dec, 16:27

	5-7km SW	Recorded	9	Projectile	SE to NW	N/K	21-Dec, 16:27
	3-5km SW	Recorded	3	Projectile	NNW to SSE	N/K	21-Dec, 16:28
	3-5km SW	Recorded	9	Projectile	NNW to SSE	N/K	21-Dec, 16:29
	5-7km SW	Recorded	3	Projectile	NNW to SSE	N/K	21-Dec, 16:30
	3-5km SW	Recorded	6	Projectile	NNW to SSE	N/K	21-Dec, 16:43
	3-5km SW	Recorded	8	Projectile	NNW to SSE	N/K	21-Dec, 16:44
	3-5km SW	Recorded	14	Projectile	NNW to SSE	N/K	21-Dec, 16:47
	5-7km SSW	Recorded	3	Projectile	NW to SE	N/K	21-Dec, 18:00
	5-7km SSW	Recorded	2	Illumination flare	In vertical flight	N/K	21-Dec, 18:00
	5-7km S	Recorded	2	Explosion		N/K	21-Dec, 18:01
	5-7km S	Recorded	1	Projectile	WNW to ESE	N/K	21-Dec, 18:03
	5-7km S	Recorded	1	Illumination flare	In vertical flight	N/K	21-Dec, 18:03
E edge of Popasna (government-controlled, 69km W of Luhansk)	2-3km S	Heard	9	Explosion	Undetermined (assessed as outside the Zolote disengagement area)	N/K	21-Dec, 09:22-09:26
	2-3km S	Heard	2	Burst	Assessed as outside the Zolote disengagement area	N/K	21-Dec, 09:22-09:26
	9-11km SE	Heard	2	Explosion	Undetermined (assessed as outside the Zolote disengagement area)	N/K	21-Dec, 13:35
N edge of disengagement area near Zolote (government-controlled, 60km W of Luhansk)	5-8km S	Heard	2	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	21-Dec, 12:45-12:50
1.7km SW of Molodizhne (non-government-controlled, 63km NW of Luhansk)	8-10km SE	Heard	24	Explosion	Undetermined (assessed as outside the Zolote disengagement area)	N/K	21-Dec, 13:35-13:57
W edge of Pervomaisk (non-government-controlled, 58km W of Luhansk)	6-8km SE	Heard	18	Explosion	Undetermined (assessed as outside the Zolote disengagement area)	N/K	21-Dec, 14:03-14:30
Kadiivka (formerly Stakhanov, non-government-controlled, 50km W of Luhansk)	12-16km SW	Heard	30	Explosion	Undetermined	N/K	21-Dec, 15:55-16:25
	12-16km SW	Heard	15	Burst		HMG	21-Dec, 15:55-16:25
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	2-4km SE	Recorded	1	Projectile		N/K	21-Dec, 18:41
	2-4km SSE	Recorded	3	Projectile		N/K	21-Dec, 19:17
	2-3km SE	Recorded	1	Explosion	Undetermined	N/K	21-Dec, 22:11
	2-3km ESE	Recorded	8	Projectile	NNE to SSW	N/K	22-Dec, 03:20
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	21-Dec, 17:14
	2-4km SSW	Recorded	1	Explosion		N/K	21-Dec, 19:46
	1-3km SSW	Recorded	18	Explosion	Undetermined	N/K	21-Dec, 20:49
	2-3km S	Recorded	2	Explosion	Undetermined	N/K	21-Dec, 20:49
	1-3km SSW	Recorded	2	Projectile	NE to SW	N/K	21-Dec, 20:50
	2-3km SSW	Recorded	1	Explosion	Outgoing	N/K	21-Dec, 20:50

	1-3km SSW	Recorded	3	Explosion	Undetermined	N/K	21-Dec, 21:12
	1-2km S	Recorded	1	Explosion	Undetermined	N/K	21-Dec, 23:38
	0.5-1km S	Recorded	2	Explosion	Outgoing	N/K	21-Dec, 23:39
	0.5-1km S	Recorded	1	Explosion	Undetermined	N/K	21-Dec, 23:39
	3-5km S	Recorded	2	Explosion	Undetermined	N/K	22-Dec, 00:09
	1-2km SSE	Recorded	1	Explosion	Undetermined	N/K	22-Dec, 00:11
SMM camera in Hranitne (government-controlled, 60km S of Donetsk)	2-4km E	Recorded	1	Projectile	SSW to NNE	N/K	21-Dec, 20:41
	2-4km E	Recorded	1	Explosion	Undetermined	N/K	21-Dec, 20:41
SMM camera in Krasnohorivka (government-controlled, 21km W of Donetsk)	1-3km ESE	Recorded	14	Explosion	Undetermined	N/K	21-Dec, 20:00
SMM camera E of Lomakyne (government-controlled, 90km S of Donetsk)	4-6km ENE	Recorded	1	Projectile	WNW to ESE	N/K	21-Dec, 21:19
SMM camera at Oktiabr mine (non-government-controlled, 9km NW of Donetsk city centre)	3-5km ENE	Recorded	1	Illumination flare	In vertical flight	N/K	21-Dec, 19:09
SMM camera 1km SW of Shyrokyne (government-controlled, 100km S of Donetsk)	2-4km N	Recorded	16	Projectile	W to E	N/K	21-Dec, 18:40
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	21-Dec, 20:37
	2-5km N	Recorded	2	Explosion	Undetermined	N/K	21-Dec, 21:01
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	21-Dec, 21:28
	3-5km NNE	Recorded	1	Explosion	Undetermined	N/K	22-Dec, 01:29
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	22-Dec, 17:07
	3-6km N	Recorded	4	Projectile	W to E	N/K	22-Dec, 17:07
	2-5km NNE	Recorded	3	Projectile	ESE to WNW	N/K	22-Dec, 17:37
	4-6km N	Recorded	2	Projectile	W to E	N/K	22-Dec, 18:01
	4-6km N	Recorded	1	Projectile	W to E	N/K	22-Dec, 18:14
About 1km N of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	3-5km SSW	Heard	1	Explosion	Undetermined	N/K	22-Dec, 08:55
	5km SW	Heard	17	Explosion	Undetermined	N/K	22-Dec, 09:33-09:45
	5km SW	Heard	1	Explosion	Undetermined	N/K	22-Dec, 09:55
	5km SW	Heard	26	Explosion	Undetermined	N/K	22-Dec, 09:56-10:01
	4-5km SW	Heard	4	Burst		HMG	22-Dec, 09:56-10:01
Railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	1-2km NW	Heard	2	Shot		Small arms	22-Dec, 10:09
	4-6km NW	Heard	4	Explosion	Undetermined	N/K	22-Dec, 10:30-10:32
About 1.8km N of Petrivske (non-government-controlled, 41km S of Donetsk)	3-4km SSW	Heard	2	Burst	Unable to assess as inside or outside the disengagement area	HMG	22-Dec, 11:06
	3-4km SSW	Heard	6	Burst	Unable to assess as inside or outside the disengagement area	HMG	22-Dec, 11:10
SE part of Avdiivka (government-controlled, 17km N of Donetsk)	1-2km S	Heard	19	Explosion	Undetermined	N/K	22-Dec, 09:40-09:45
	1-2km S	Heard	25	Explosion	Undetermined	N/K	22-Dec, 09:45-10:05
	2-3km SE	Heard	2	Explosion	Undetermined	N/K	22-Dec, 10:31
	2-3km ESE	Heard	2	Explosion	Undetermined	N/K	22-Dec, 11:54-11:56

3km NE of Zaichenko (non-government-controlled, 93km south of Donetsk)	2km S	Heard	42	Explosion	Undetermined	N/K	22-Dec, 11:23-11:32
	2km S	Heard	6	Explosion	Undetermined	N/K	22-Dec, 11:35-11:38
	2-3km N	Heard	18	Explosion	Undetermined	N/K	22-Dec, 11:35-11:38
	2-3km N	Heard	8	Explosion	Undetermined	N/K	22-Dec, 11:40
	3-4km NE	Heard	4	Explosion	Undetermined	N/K	22-Dec, 11:47-11:50
	3-4km NE	Heard	32	Burst		Small arms	22-Dec, 11:47-11:50
	4-5km NE	Heard	4	Explosion	Undetermined	N/K	22-Dec, 11:55-11:58
	4-5km NE	Heard		Shot	Uncountable	Small arms	22-Dec, 11:55-11:58
	4-5km NE	Heard		Burst	Uncountable	Small arms	22-Dec, 11:55-11:58
	4-5km NE	Heard		Burst	Uncountable	HMG	22-Dec, 11:55-11:58
	0.5-1km S	Heard	2	Burst		Small arms	22-Dec, 12:02
	3-4km NE	Heard		Burst	Uncountable	Small arms	22-Dec, 12:05-12:06
	3-4km W	Heard		Burst	Uncountable	Small arms	22-Dec, 12:05-12:06
	3-4km NE	Heard		Burst	Uncountable	Small arms	22-Dec, 12:08-12:09
	1-2km N	Heard		Shot	Uncountable	Small arms	22-Dec, 12:08-12:09
	1-2km S	Heard		Burst	Uncountable	Small arms	22-Dec, 12:08-12:09
2km NE of Chernenko (government-controlled, 86km south of Donetsk)	2-3km SSE	Heard	3	Shot		Small arms	22-Dec, 09:39
	1-2km SE	Heard	2	Shot		Small arms	22-Dec, 09:40
	1-2km SE	Heard	4	Shot		Small arms	22-Dec, 09:45
	1-2km SE	Heard	4	Shot		Small arms	22-Dec, 09:50
	1-2km SE	Heard	18	Shot		Small arms	22-Dec, 10:19-10:28
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	22-Dec, 10:57
	3-5km SE	Heard	4	Explosion	Undetermined	N/K	22-Dec, 13:09
	3-5km SE	Heard	2	Explosion	Undetermined	Tank (type N/K)	22-Dec, 13:11
	3-5km SE	Heard	7	Explosion	Undetermined	Tank (type N/K)	22-Dec, 13:14-13:16
	3-5km SE	Heard	10	Explosion	Undetermined	N/K	22-Dec, 13:18-13:24
	1-2km SE	Heard	10	Burst		Small arms	22-Dec, 13:18-13:24
	3-5km SE	Heard		Shot	Uncountable	Small arms	22-Dec, 13:26-13:29
	3-5km SE	Heard		Burst	Uncountable	HMG	22-Dec, 13:26-13:29
	3-5km SE	Heard	50	Shot		Cannon (type N/K)	22-Dec, 13:26-13:29
	3-5km SE	Heard	6	Explosion	Undetermined	N/K	22-Dec, 13:26-13:29

	3-5km SE	Heard	3	Explosion	Undetermined	N/K	22-Dec, 13:31-13:34
	3-5km SE	Heard	5	Burst		HMG	22-Dec, 13:31-13:34
	3-5km SE	Heard	9	Explosion	Undetermined	N/K	22-Dec, 13:35-13:39
	3-5km SE	Heard	8	Explosion	Undetermined	N/K	22-Dec, 13:40-13:42
	3-5km SE	Heard	4	Explosion	Undetermined	N/K	22-Dec, 13:42-13:45
	3-5km SE	Heard		Burst	Uncountable	HMG	22-Dec, 13:46-13:47
	3-5km SE	Heard	27	Shot		Cannon (type N/K)	22-Dec, 13:50
Lomakyne (government-controlled, 93km south of Donetsk)	2km SE	Heard	1	Explosion		N/K	22-Dec, 13:28
3km SE of Lomakyne (government-controlled, 93km south of Donetsk)	2-3km NE	Heard	120	Shot		Small arms	22-Dec, 11:36-11:37
	2-3km NE	Heard	2	Burst		HMG	22-Dec, 11:36-11:37
	2-3km NE	Heard	2	Explosion	Undetermined	N/K	22-Dec, 11:36-11:37
	2-3km NE	Heard	11	Explosion	Undetermined	N/K	22-Dec, 11:37-11:41
	2-3km NE	Heard	2	Burst		HMG	22-Dec, 11:37-11:41
	2-3km NE	Heard	80	Shot		Small arms	22-Dec, 11:37-11:41
	4-5km S	Heard	1	Explosion	Undetermined	N/K	22-Dec, 11:44
	2-3km NE	Heard	17	Explosion	Undetermined	N/K	22-Dec, 11:47-11:57
	2-3km NE	Heard	17	Burst		HMG	22-Dec, 11:47-11:57
	2-3km NE	Heard	30	Shot		Small arms	22-Dec, 11:47-11:57
	2-3km NE	Heard	5	Shot		Small arms	22-Dec, 12:25
Svitlodarsk (government-controlled, 57km NE of Donetsk)	2-5km SE	Heard	7	Explosion	Undetermined	N/K	21-Dec, 19:13-19:17
	2-5km SE	Heard	6	Burst		HMG	21-Dec, 19:13-19:17
	2-5km SE	Heard	10	Shot		Small arms	21-Dec, 19:13-19:17
	2-5km SE	Heard	2	Explosion	Undetermined	N/K	21-Dec, 19:36
	2-5km SE	Heard	5	Shot		Small arms	21-Dec, 19:41
	2-4km SE	Heard	6	Burst		HMG	21-Dec, 21:02
	2-4km SSE	Heard	1	Burst		HMG	21-Dec, 21:11
	2-4km SSE	Heard	2	Burst		HMG	21-Dec, 21:39
	2-4km SSE	Heard	7	Burst		HMG	21-Dec, 21:49-21:50
	2-4km SSE	Heard	7	Burst		HMG	21-Dec, 21:52-21:53
	2-4km S	Heard	1	Explosion	Undetermined	N/K	21-Dec, 21:55
	2-4km SSE	Heard	2	Burst		HMG	21-Dec, 21:56
	2-4km SSE	Heard	1	Burst		HMG	21-Dec, 22:00
	2-4km SSE	Heard	5	Burst		HMG	21-Dec, 22:02-22:06
	4-6km SSE	Heard	3	Explosion	Undetermined	N/K	21-Dec, 22:10
	4-6km SSE	Heard	5	Explosion	Undetermined	N/K	21-Dec, 22:29



	4-6km SE	Heard	3	Burst		HMG	21-Dec, 22:27
	2-4km SSE	Heard	2	Burst		HMG	21-Dec, 22:45
	4-6km SSE	Heard	2	Explosion	Undetermined	N/K	21-Dec, 22:55
	2-4km SSE	Heard	3	Burst		HMG	21-Dec, 23:01-23:03
	2-4km SSE	Heard	3	Burst		HMG	21-Dec, 23:04
	2-4km SSE	Heard	4	Explosion	Undetermined	N/K	21-Dec, 23:05-23:06
	2-4km SSE	Heard	2	Burst		HMG	21-Dec, 23:09
	2-5km SSE	Heard	1	Explosion	Undetermined	N/K	22-Dec, 07:52
	2-5km SSE	Heard	9	Shot		Small arms	22-Dec, 07:52
	2-5km SE	Heard	7	Burst		HMG	22-Dec, 08:06
	2-5km SE	Heard	55	Burst		HMG	22-Dec, 11:55-12:02
	2-5km SE	Heard	24	Burst		HMG	22-Dec, 12:05-12:15
	3-5km SE	Heard	5	Explosion	Undetermined	N/K	22-Dec, 12:05-12:15
	3-4km SE	Heard	3	Explosion	Undetermined	N/K	22-Dec, 16:21
	3-4km SE	Heard	8	Burst		HMG	22-Dec, 17:52
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	4-6km SW	Heard	1	Explosion	Undetermined	N/K	22-Dec, 09:40
	3-5km S	Heard	14	Explosion	Undetermined	N/K	22-Dec, 09:55-10:02
Horlivka (non-government-controlled, 39km NE of Donetsk)	4-5km SW	Heard	1	Explosion	Undetermined	N/K	22-Dec, 17:20
Kalynove (non-government-controlled, 60km W of Luhansk)	6-8km WNW	Heard	1	Explosion	Undetermined (assessed as outside the Zolote disengagement area)	N/K	22-Dec, 09:21-09:22
S edge of Kalynove (non-government-controlled, 60km W of Luhansk)	6km SSW	Heard	30	Explosion	Undetermined	N/K	22-Dec, 10:10-10:59
4km S of Popasna (government-controlled, 69km W of Luhansk)	8-10km SE	Heard	14	Explosion	Undetermined	N/K	22-Dec, 12:45-12:50
E edge of Popasna (government-controlled, 69km W of Luhansk)	2-3km SE	Heard	3	Shot		SALW	22-Dec, 14:09-14:12

### 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).