

Daily Report 285/2019

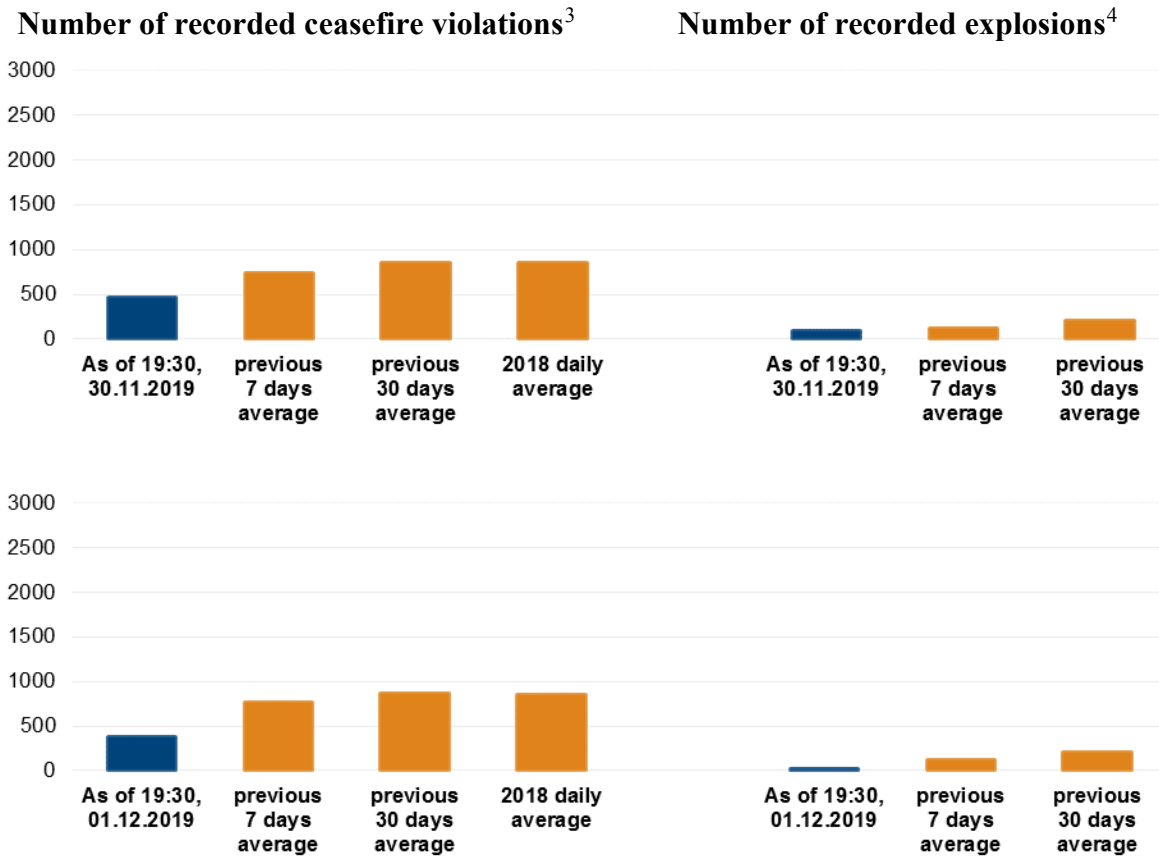
2 December 2019¹

Summary

- Compared with the previous reporting period, between the evenings of 29 and 30 November, the SMM recorded more ceasefire violations in Donetsk region and no ceasefire violations in Luhansk region.
- Between the evenings of 30 November and 1 December, the Mission recorded more ceasefire violations in Donetsk region. It recorded ceasefire violations in Luhansk region.
- The SMM continued to monitor the situation in the Zolote, Petrivske and Stanytsia Luhanska disengagement areas.
- It monitored adherence to a localized ceasefire to facilitate repairs to and the operation of critical civilian infrastructures on both sides of the contact line in Donetsk region, including to power lines in Shumy.
- The Mission monitored peaceful gatherings in Chernivtsi and in Kyiv.
- The SMM's freedom of movement continued to be restricted, including at checkpoints of the armed formations near Zaichenko, Bezimenne and Verkhnohyrokiivske, all in Donetsk region.*

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

Ceasefire violations²



² For a complete breakdown of ceasefire violations, please see the annexed table. During the reporting period, the SMM camera in Kriakivka was not operational.

³ Including explosions.

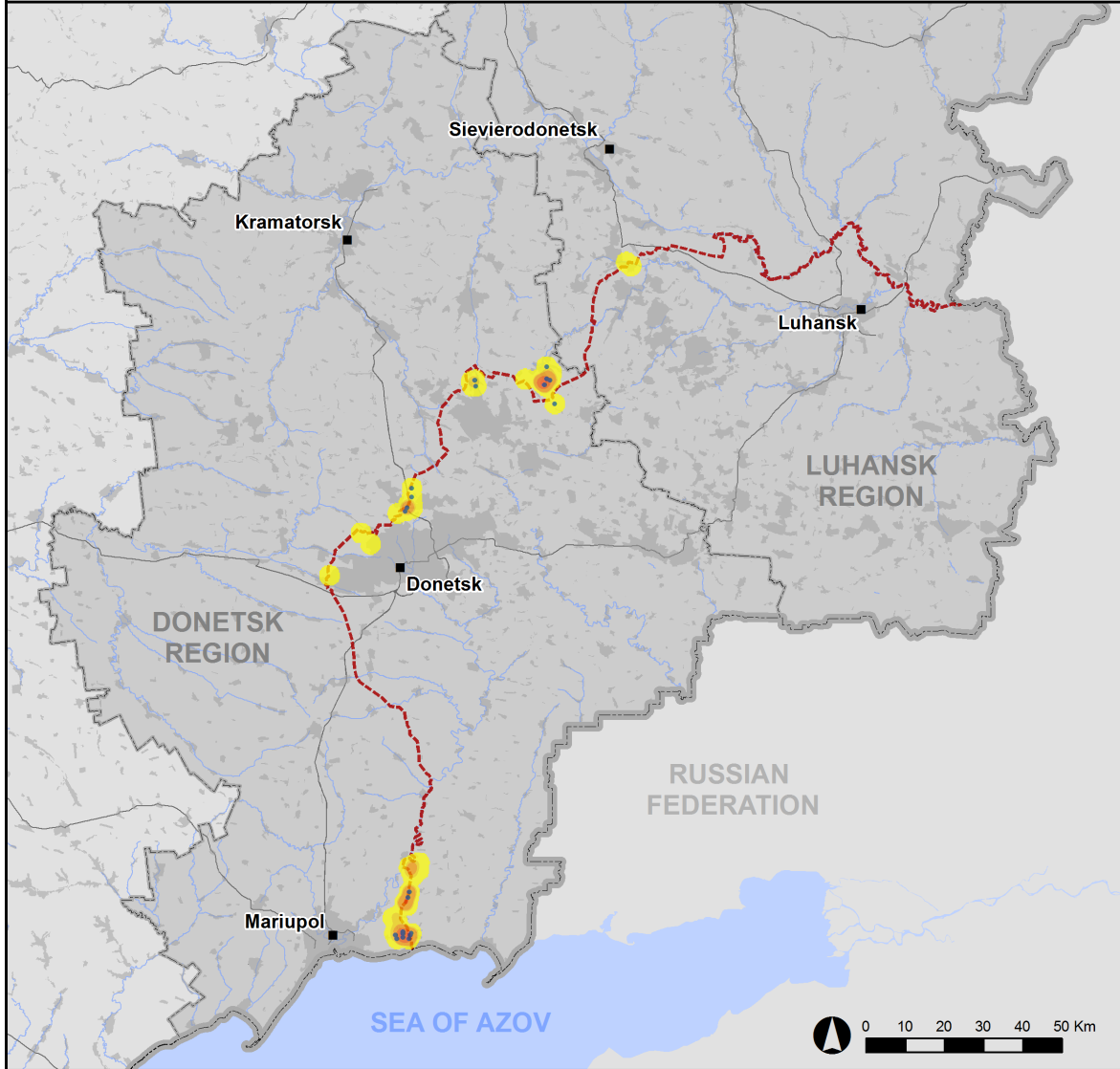
⁴ Including from unidentified weapons.

Map of recorded ceasefire violations

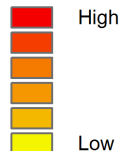


Organization for Security and
Co-operation in Europe
Special Monitoring Mission to Ukraine

Ceasefire violations observed by the SMM 30 November - 1 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: 02/12/2019

In Donetsk region, between the evenings of 29 and 30 November, the SMM recorded more ceasefire violations, including more explosions (80), compared with the [previous reporting period](#). The majority of ceasefire violations were recorded at easterly and southerly directions of Svitlodarsk (government-controlled, 57km north-east of Donetsk) and at northerly directions of Shyrokyne (government-controlled, 100km south of Donetsk).

Between the evenings of 30 November and 1 December, the Mission recorded more ceasefire violations, including, however, fewer explosions (25), compared with the previous 24 hours. The majority of ceasefire violations were recorded at northerly directions of Shyrokyne and at easterly and southerly directions of Hnutove (government-controlled, 90km south of Donetsk).

In Luhansk region, between the evenings of 29 and 30 November, the Mission did not record any ceasefire violations.

Between the evenings of 30 November and 1 December, the Mission recorded ceasefire violations (six in total), however no explosions, in areas north-north-east of Zolote-5/Mykhailivka (non-government-controlled, 58km west of Luhansk) and Pervomaisk (non-government-controlled, 58km west of Luhansk).

Disengagement areas near Zolote, Petrivske and Stanytsia Luhanska ⁵

On 30 November and 1 December, the SMM saw members of the armed formations (wearing armbands with “JCCC” (Joint Centre for Control and Co-ordination) written on them) at the checkpoint of the armed formations on the southern edge of the **disengagement area near Zolote** (government-controlled, 60km west of Luhansk).

On 1 December, outside of the disengagement area near Zolote, the SMM continued to see the presence of police and national guard personnel patrolling in areas north of the disengagement area.

On the same day, positioned in Pervomaisk, the SMM heard a burst of small-arms fire, at an assessed range of 3-4km north-north-east. About 45 minutes later, positioned in Zolote-5/Mykhailivka, the Mission heard about five shots of small-arms fire, at an assessed distance of 1-2km north-north-east. All of the above were assessed as outside the disengagement area near Zolote but within its 5km periphery.

On 30 November and 1 December, positioned east of Bohdanivka (government-controlled, 41km south-west of Donetsk), the SMM saw up to 21 State Emergency Service of Ukraine (SES) personnel on board of vehicles, driving east on the road towards Viktorivka (non-government-controlled, 42km south-west of Donetsk) and entering the **disengagement area near Petrivske** (non-government-controlled, 41km south of Donetsk).

On 1 December, inside the **disengagement area near Stanytsia Luhanska** (government-controlled, 16km north-east of Luhansk), the SMM saw at least five members of the armed formations (wearing armbands with “JCCC” written on them), between the southern edge of

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

the newly constructed section of the bridge and the checkpoint of the armed formations inside the disengagement area.

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 a weapon beyond withdrawal lines but outside of designated storage sites in a government-controlled area of Donetsk region (for further details, see the table below).

Heavy Weapons Permanent Storage Site

At a heavy weapons permanent storage site in a non-government-controlled area of Luhansk region

30 November

The SMM saw that all weapons declared as withdrawn at this site were present.

Indications of military and military-type presence in the security zone⁶

The SMM observed armoured combat vehicles in government-controlled areas of Donetsk and Luhansk regions (for further details, see the table below).

On 30 November, the SMM saw a new dug-out assessed as a trench line, about 3-5m north-west of a local road south-west of Dovhe (non-government-controlled, 22km north-west of Luhansk), assessed as belonging to the armed formations.

Presence of unexploded ordnance (UXO) in Heorhiivka

On 30 November, the SMM saw a piece of UXO assessed as a multiple launch rocket system rocket (*Uragan*, 220mm) in a field about 50m east of a local road in the southern outskirts of Heorhiivka (non-government-controlled, 15km south of Luhansk), assessed as not recent. The SMM noted that the UXO was not marked or fenced.

SMM facilitation of repairs to and the operation of critical civilian infrastructure

On 30 November, the SMM monitored adherence to a localized ceasefire to facilitate repairs to power lines in Shumy (government-controlled, 41km north of Donetsk).

On 30 November and 1 December, 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

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

On 30 November, while at the border crossing point near Uspenka (73km south-east of Donetsk) for about an hour, the SMM saw 37 cars (two with Ukrainian and eight with Russian Federation licence plates, as well as 27 with “DPR” plates), two covered cargo trucks (one with Ukrainian licence plates and one with “DPR” plates), and a bus with Russian Federation licence plates entering Ukraine. It also saw seven cars (one with Ukrainian and two with Russian Federation licence plates, as well as four with “DPR” plates), a covered cargo truck with Ukrainian licence plates, and a bus with “DPR” plates exiting Ukraine.

On 1 December, while at the same location for about 40 minutes, the Mission saw seven cars (four with Russian Federation licence plates as well as three with “DPR” plates), a bus with Russian Federation licence plates, and two pedestrians (a woman and a man in their forties and fifties) entering Ukraine. It also saw 11 cars (four with Russian Federation licence plates as well as seven with “DPR” plates), and ten covered cargo trucks (eight with Ukrainian and one with Russian Federation licence plates, as well as one with “DPR” plates) exiting Ukraine.

On 30 November and 1 December, while at the border crossing point near Ulianivske (61km south-east of Donetsk) for about 15 and 30 minutes respectively, the SMM saw two pedestrians (a man and a woman in their fifties) entering Ukraine.

The SMM monitored peaceful gatherings in Chernivtsi and in Kyiv

On 28 November, in front of the Shevchenko Monument at the central square in Chernivtsi, the SMM observed a peaceful gathering of about 20 people (mostly men, mixed ages), some wearing uniforms with Right Sector (*Pravyi Sektor*) insignia, expressing messages critical of the signing of the text of the “Steinmeier formula”. The SMM observed about 20 police officers and saw the protesters disperse without incidents.

On 1 December, the SMM monitored a pre-announced public gathering by the Right Sector (*Pravyi Sektor*) in front of the building of the Presidential Administration at 11 Bankova Street in Kyiv. The Mission saw about 150 people (mostly men, mixed ages) gathered, some wearing military-style clothing. The SMM saw about 12 police officers and 20 dialogue police officers. No incidents were observed.

The SMM monitored the security situation in south-east parts of Kherson region

On 29 November, the SMM observed calm situations at the checkpoints between Kalanchak (67km south-east of Kherson) and Chaplynka (77km south-east of Kherson) and Crimea.

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

***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 JCCC should contribute to such response and co-ordinate mine clearance. Nonetheless, the armed formations in parts of Donetsk and Luhansk regions frequently deny the SMM access to areas adjacent to Ukraine’s border outside control of the Government (for example, see [SMM](#)

[Daily Report of 19 November 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 30 November, at a checkpoint about 800m north of Zaichenko (non-government-controlled, 93km south of Donetsk), two armed members of the armed formations [again](#) denied the SMM passage southwards to Sakhanka (non-government-controlled, 97km south of Donetsk) and westwards to Pikuzy (formerly Kominternove, non-government-controlled, 92km south of Donetsk), citing “demining activities”.
- On 30 November, at a checkpoint west of Bezimenne (non-government-controlled, 100km south of Donetsk), an armed member of the armed formations [again](#) denied the SMM passage, citing “demining activities”.
- On 1 December, at a checkpoint near Verkhnohyrokiyske (formerly Oktiabr, non-government-controlled, 85km south of Donetsk), a member of the armed formations [again](#) denied the SMM passage to non-government-controlled areas, citing “demining activities near Sakhanka and Pikuzy”.

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 1 December, on two separate occasions, an SMM mini-unmanned aerial vehicle experienced GPS signal interference, assessed as probably caused by jamming, while flying over areas near Stepne (government-controlled, 29km south-west of Donetsk).⁷

⁷ 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
Government-controlled areas				
30/11/2019	1	Surface-to-air missile system (9K35 <i>Strela-10</i>)	Kostiantynivka (60km north of Donetsk)	Patrol

Table of military presence in the security zone⁸

Date	No.	Type	Location	Source of observation
Government-controlled areas				
29/11/2019	9	Infantry fighting vehicle (BMP-1)	Inside a compound north-east of Mariupol (102km south of Donetsk), about 250m from the nearest residential building	Mini-UAV
	1	Armoured combat vehicle (BMP variant)		
	2	Armoured combat vehicle		
30/11/2019	1	Armoured reconnaissance vehicle (BRDM-2)	In Trokhizbenka (32km north-west of Luhansk)	Patrol
	1	Armoured reconnaissance vehicle (BRDM-2)	In Pervomaiske (17km north-west of Donetsk)	

⁸ 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 1 December 2019⁹

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera in Avdiivka (government-controlled, 17km N of Donetsk)	2-4km SSE	Recorded	4	Projectile	W to E	N/K	29-Nov, 20:48
	4-6km SE	Recorded	2	Projectile	ENE to WSW	N/K	29-Nov, 18:32
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	3-5km SSE	Recorded	2	Projectile	SW to NE	N/K	29-Nov, 19:15
	2-4km SE	Recorded	1	Projectile	NNE to SSW	N/K	29-Nov, 21:12
	2-4km SSE	Recorded	2	Projectile	WSW to ENE	N/K	29-Nov, 21:13
	2-4km SSE	Recorded	2	Projectile	NNE to SSW	N/K	29-Nov, 21:15
	2-4km SE	Recorded	6	Projectile	SW to NE	N/K	30-Nov, 00:09
	2-4km SE	Recorded	2	Projectile	SW to NE	N/K	30-Nov, 00:33
	2-4km SE	Recorded	1	Projectile	SW to NE	N/K	30-Nov, 00:48
	2-4km SE	Recorded	2	Projectile	SW to NE	N/K	30-Nov, 00:50
	3-5km SSE	Recorded	5	Projectile	SW to NE	N/K	30-Nov, 18:22
	2-2.5km SSW	Recorded	6	Projectile	W to E	N/K	29-Nov, 21:14
	SMM camera at Donetsk Filtration Station (15km N of Donetsk)	1-2km SSW	Recorded	3	Projectile	W to E	N/K
SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk)	4-6km SE	Recorded	3	Projectile	NNE to SSW	N/K	29-Nov, 18:47
	3-5km SE	Recorded	2	Projectile	NNE to SSW	N/K	29-Nov, 21:36
SMM camera E of Lomakyne (government-controlled, 90km S of Donetsk)	3-5km E	Recorded	3	Projectile	SW to NE	N/K	29-Nov, 20:54
	3-5km ENE	Recorded	3	Projectile	SW to NE	N/K	29-Nov, 20:56
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	2-4km E	Recorded	1	Projectile	NNW to SSE	N/K	30-Nov, 00:17
	2-4km ENE	Recorded	1	Projectile	NW to SE	N/K	30-Nov, 01:59
	2-4km ENE	Recorded	4	Projectile	NNW to SSE	N/K	30-Nov, 05:03
SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)	3-5km NNE	Recorded	1	Projectile	WSW to ENE	N/K	29-Nov, 20:35
SMM camera 1km SW of Shyrokyne (government-controlled, 100km S of Donetsk)	3-5km N	Recorded	6	Projectile	E to W	N/K	29-Nov, 19:04
	3-5km N	Recorded	3	Projectile	E to W	N/K	29-Nov, 19:26
	3-5km NNW	Recorded	2	Explosion	Undetermined	N/K	29-Nov, 19:26
	3-5km N	Recorded	3	Projectile	E to W	N/K	29-Nov, 19:27
	3-5km NNW	Recorded	3	Explosion	Undetermined	N/K	29-Nov, 19:27
	3-5km N	Recorded	4	Projectile	E to W	N/K	29-Nov, 19:38
	4-6km N	Recorded	8	Projectile	W to E	N/K	29-Nov, 20:22

⁹ 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.

	4-6km N	Recorded	6	Projectile	W to E	N/K	29-Nov, 20:23
	4-6km N	Recorded	3	Projectile	W to E	N/K	29-Nov, 20:24
	4-6km N	Recorded	2	Projectile	W to E	N/K	29-Nov, 20:53
	4-6km N	Recorded	5	Projectile	W to E	N/K	29-Nov, 20:54
	3-5km N	Recorded	13	Projectile	E to W	N/K	29-Nov, 20:54
	4-6km N	Recorded	7	Projectile	W to E	N/K	29-Nov, 20:55
	4-6km N	Recorded	6	Projectile	W to E	N/K	29-Nov, 20:56
	4-6km NNE	Recorded	3	Projectile	E to W	N/K	29-Nov, 22:11
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	29-Nov, 22:35
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	29-Nov, 22:38
	4-6km NNE	Recorded	3	Projectile	E to W	N/K	29-Nov, 22:40
	4-6km NNW	Recorded	1	Explosion	Undetermined	N/K	29-Nov, 22:40
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	29-Nov, 22:42
	4-6km NNW	Recorded	2	Explosion	Undetermined	N/K	29-Nov, 22:45
	4-6km NNW	Recorded	1	Explosion	Undetermined	N/K	29-Nov, 22:48
	4-6km NNE	Recorded	1	Projectile	E to W	N/K	29-Nov, 22:51
	4-6km NNW	Recorded	1	Explosion	Undetermined	N/K	29-Nov, 22:51
	4-6km NNW	Recorded	1	Explosion	Undetermined	N/K	29-Nov, 22:53
	4-6km NNE	Recorded	1	Explosion	Undetermined	N/K	29-Nov, 23:03
	4-6km NNE	Recorded	1	Explosion	Undetermined	N/K	29-Nov, 23:04
	4-6km NNE	Recorded	1	Explosion	Undetermined	N/K	29-Nov, 23:05
	4-6km NNW	Recorded	1	Explosion	Undetermined	N/K	29-Nov, 23:06
	4-6km N	Recorded	1	Projectile	SE to NW	N/K	30-Nov, 00:40
	4-6km N	Recorded	1	Projectile	SSE to NNW	N/K	30-Nov, 00:50
	3-5km N	Recorded	1	Projectile	W to E	N/K	30-Nov, 18:18
	3-5km N	Recorded	2	Projectile	E to W	N/K	30-Nov, 18:20
SMM camera in Svitlodarsk (government-controlled, 57km NE of Donetsk)	3-5km ESE	Recorded	3	Projectile	N to S	N/K	29-Nov, 18:31
	3-5km ESE	Recorded	2	Projectile	N to S	N/K	29-Nov, 18:51
	3-5km ESE	Recorded	2	Projectile	N to S	N/K	29-Nov, 18:53
	3-5km ESE	Recorded	2	Projectile	N to S	N/K	29-Nov, 18:54
	3-5km ESE	Recorded	9	Projectile	N to S	N/K	29-Nov, 18:57
	3-5km ENE	Recorded	1	Explosion	Undetermined	N/K	30-Nov, 00:43
	4-6km ESE	Recorded	4	Projectile	S to N	N/K	30-Nov, 17:28
About 3km WSW of Donetsk central railway station (non-government-controlled, 6km NW of Donetsk city centre)						Small arms	
	2-3km WSW	Heard	1	Burst			30-Nov, 11:14
Pervomaiske (government-controlled, 17km NW of Donetsk)	1-2km SSW	Heard	1	Burst		HMG	30-Nov, 13:30
	1-2km SSW	Heard	2	Burst		HMG	30-Nov, 13:39
Railway station in Yasnyuvata (non-government-controlled, 16km NE of Donetsk)							
	2-3km WSW	Heard	2	Burst		HMG	30-Nov, 12:30
Svitlodarsk (government-controlled, 57km NE of Donetsk)	4-5km SE	Heard	2	Explosion	Undetermined	N/K	29-Nov, 19:15
	4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 19:18
	4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 19:19
	4-5km SE	Heard	2	Explosion	Undetermined	N/K	29-Nov, 19:20
	4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 19:21
	2-3km SE	Heard	3	Shot		Small arms	29-Nov, 19:21
	4-5km SE	Heard	2	Explosion	Undetermined	N/K	29-Nov, 19:22
	4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 19:23
	4-5km SE	Heard	2	Explosion	Undetermined	N/K	29-Nov, 19:24
	4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 19:25

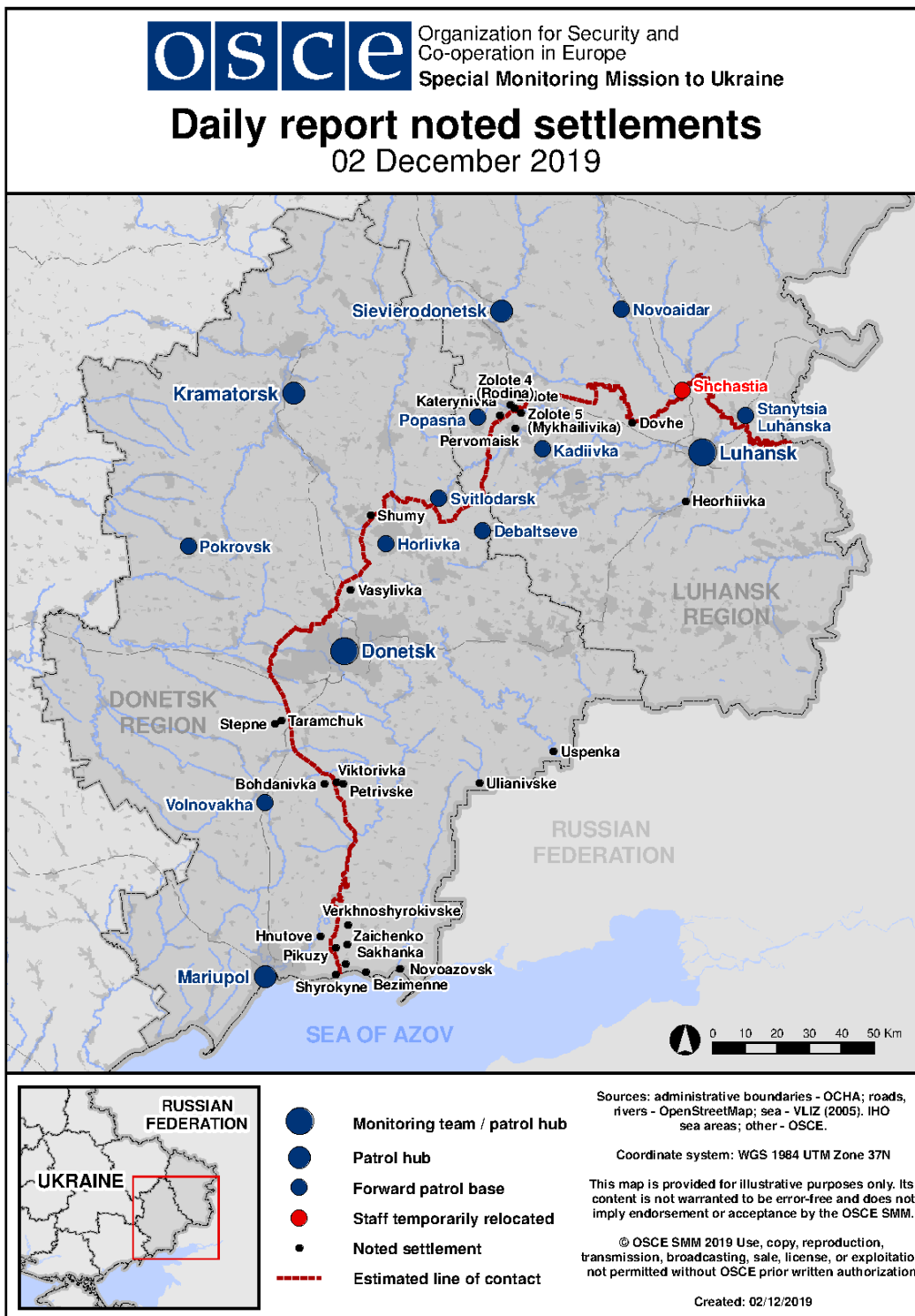
4-5km SE	Heard	2	Explosion	Undetermined	N/K	29-Nov, 19:27
4-5km SE	Heard	3	Explosion	Undetermined	N/K	29-Nov, 19:28
4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 19:30
4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 19:31
3-4km SE	Heard	4	Burst		HMG	29-Nov, 19:33
4-5km SE	Heard	2	Explosion	Undetermined	N/K	29-Nov, 19:35
4-5km SE	Heard	3	Explosion	Undetermined	N/K	29-Nov, 19:36
3-4km SE	Heard	5	Burst		HMG	29-Nov, 19:37
4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 19:37
3-4km SE	Heard	7	Burst		HMG	29-Nov, 19:38
4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 19:38
4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 19:39
4-5km SE	Heard	2	Explosion	Undetermined	N/K	29-Nov, 19:41
3-4km SE	Heard	2	Burst		HMG	29-Nov, 19:44
4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 19:45
4-5km SE	Heard	2	Explosion	Undetermined	N/K	29-Nov, 19:50
4-5km SE	Heard	4	Explosion	Undetermined	N/K	29-Nov, 19:53
3-4km SE	Heard	7	Burst		HMG	29-Nov, 19:57
4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 19:57
4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 20:03
4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 20:05
4-5km SE	Heard	2	Explosion	Undetermined	N/K	29-Nov, 20:09
2-3km SE	Heard	3	Shot		Small arms	29-Nov, 20:09
4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 20:16
4-5km SE	Heard	2	Explosion	Undetermined	N/K	29-Nov, 20:24
3-4km SE	Heard	3	Burst		Small arms	29-Nov, 20:24
2-3km SE	Heard	3	Shot		Small arms	29-Nov, 20:29
3-4km SE	Heard	5	Burst		Small arms	29-Nov, 20:35
4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 20:37
4-5km SE	Heard	2	Explosion	Undetermined	N/K	29-Nov, 20:40
2-4km SE	Heard	Uncountable	Shots and bursts	Uncountable and overlapping	Small arms	29-Nov, 20:51-20:55
4-5km SE	Heard	2	Explosion	Undetermined	N/K	29-Nov, 21:03
3-4km SE	Heard	5	Burst		HMG	29-Nov, 21:09
3-4km SE	Heard	3	Burst		HMG	29-Nov, 21:13
4-5km SE	Heard	3	Explosion	Undetermined	N/K	29-Nov, 21:13
4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 21:22
3-4km SE	Heard	3	Burst		HMG	29-Nov, 21:35
4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 21:37
4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 21:38
3-4km SE	Heard	8	Burst		HMG	29-Nov, 21:40
3-4km SE	Heard	5	Burst		HMG	29-Nov, 21:44
3-4km SE	Heard	8	Burst		HMG	29-Nov, 22:05
2-4km SE	Heard	Uncountable	Shots and bursts	Uncountable and overlapping	Small arms	29-Nov, 22:13-22:15
2-4km SE	Heard	Uncountable	Shots and bursts	Uncountable and overlapping	Small arms	29-Nov, 22:35-22:37
4-5km SE	Heard	3	Explosion	Undetermined	N/K	29-Nov, 22:40
2-4km SE	Heard	Uncountable	Shots and bursts	Uncountable and overlapping	Small arms	29-Nov, 22:44-22:45
4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 22:55
3-4km SE	Heard	6	Burst		HMG	29-Nov, 22:57

	3-4km SE	Heard	5	Burst		HMG	29-Nov, 23:13
	3-4km SE	Heard	3	Burst		HMG	29-Nov, 23:16
	3-4km SE	Heard	5	Burst		HMG	29-Nov, 23:50
SMM camera in Avdiivka (government-controlled, 17km N of Donetsk)	3-5km ESE	Recorded	8	Projectile	SW to NE	N/K	1-Dec, 01:34
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	3-5km ESE	Recorded	1	Projectile	SW to NE	N/K	30-Nov, 18:43
	5-6km SSE	Recorded	4	Projectile	ENE to WSW	N/K	1-Dec, 17:01
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	4-5km SE	Recorded	1	Projectile	ENE to WSW	N/K	1-Dec, 17:02
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	30-Nov, 22:54
	1-3km SSW	Recorded	1	Projectile	ENE to WSW	N/K	30-Nov, 23:48
	1-3km SSW	Recorded	1	Explosion	Undetermined	N/K	1-Dec, 00:13
	1-2km S	Recorded	1	Projectile	WNW to ESE	N/K	1-Dec, 01:29
	1-2km SSW	Recorded	7	Projectile	ESE to WNW	N/K	1-Dec, 01:34
	1-2km S	Recorded	1	Projectile	WNW to ESE	N/K	1-Dec, 01:34
	1-2km SSE	Recorded	1	Projectile	WNW to ESE	N/K	1-Dec, 01:49
	1-3km SSW	Recorded	1	Projectile	WNW to ESE	N/K	1-Dec, 02:50
	1-3km SSW	Recorded	1	Projectile	WNW to ESE	N/K	1-Dec, 02:51
	1-3km SSW	Recorded	2	Projectile	ESE to WNW	N/K	1-Dec, 17:13
	1-3km SSW	Recorded	1	Projectile	ESE to WNW	N/K	1-Dec, 17:13
SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk)	3-5km SE	Recorded	1	Projectile	NNE to SSW	N/K	30-Nov, 18:45
	3-5km E	Recorded	1	Projectile	NNE to SSW	N/K	30-Nov, 19:00
	3-5km E	Recorded	1	Explosion	Undetermined	N/K	30-Nov, 19:00
	3-5km E	Recorded	13	Projectile	NNE to SSW	N/K	30-Nov, 19:01
	3-5km E	Recorded	7	Projectile	NNE to SSW	N/K	30-Nov, 19:02
	3-5km E	Recorded	5	Projectile	In vertical flight	N/K	30-Nov, 19:03
	3-5km E	Recorded	1	Explosion	Undetermined	N/K	30-Nov, 19:07
	3-5km E	Recorded	2	Projectile	SSW to NNE	N/K	30-Nov, 19:21
	3-5km E	Recorded	1	Projectile	NNE to SSW	N/K	30-Nov, 19:41
	3-5km E	Recorded	1	Projectile	N to S	N/K	30-Nov, 19:49
	3-5km SE	Recorded	4	Projectile	NNE to SSW	N/K	30-Nov, 19:50
	3-5km SE	Recorded	2	Projectile	SSW to NNE	N/K	30-Nov, 19:51
	3-5km SE	Recorded	2	Projectile	NNE to SSW	N/K	30-Nov, 19:53
	3-5km ESE	Recorded	2	Explosion	Undetermined	N/K	30-Nov, 20:04
	3-5km ESE	Recorded	1	Projectile	SSW to NNE	N/K	30-Nov, 20:04
	3-5km ESE	Recorded	2	Explosion	Undetermined	N/K	30-Nov, 20:05
	3-5km ESE	Recorded	1	Projectile	SSW to NNE	N/K	30-Nov, 20:05
	3-5km SE	Recorded	5	Projectile	SW to NE	N/K	30-Nov, 20:07
	3-5km SE	Recorded	1	Projectile	SW to NE	N/K	30-Nov, 20:11
	3-5km SE	Recorded	3	Projectile	SW to NE	N/K	30-Nov, 20:12
	3-5km SE	Recorded	4	Projectile	SW to NE	N/K	30-Nov, 20:14
	3-5km SE	Recorded	4	Projectile	NNE to SSW	N/K	30-Nov, 20:27
	3-5km SE	Recorded	1	Projectile	NNE to SSW	N/K	30-Nov, 20:31
	3-5km SE	Recorded	5	Projectile	SW to NE	N/K	30-Nov, 20:31
	3-5km SE	Recorded	1	Projectile	W to E	N/K	30-Nov, 20:31
	3-5km ESE	Recorded	2	Projectile	N to S	N/K	30-Nov, 21:13
	3-5km SE	Recorded	3	Projectile	SW to NE	N/K	30-Nov, 21:31
	3-5km ESE	Recorded	2	Projectile	NNE to SSW	N/K	30-Nov, 21:37
	3-5km SE	Recorded	3	Projectile	N to S	N/K	30-Nov, 21:48
	3-5km ESE	Recorded	1	Projectile	NNE to SSW	N/K	30-Nov, 21:50
	3-5km SE	Recorded	1	Projectile	SW to NE	N/K	30-Nov, 22:14
	3-5km ESE	Recorded	3	Projectile	NNE to SSW	N/K	30-Nov, 22:36
	3-5km ESE	Recorded	5	Projectile	N to S	N/K	1-Dec, 03:24
3-5km SE	Recorded	2	Projectile	NNE to SSW	N/K	1-Dec, 04:30	
3-5km ESE	Recorded	2	Projectile	NNE to SSW	N/K	1-Dec, 17:35	

	3-5km ESE	Recorded	1	Projectile	SSW to NNE	N/K	1-Dec, 17:35
	3-5km ESE	Recorded	2	Projectile	NNE to SSW	N/K	1-Dec, 18:00
	3-5km ESE	Recorded	1	Projectile	SSW to NNE	N/K	1-Dec, 18:00
	3-5km ESE	Recorded	3	Projectile	NNE to SSW	N/K	1-Dec, 18:15
SMM camera E of Lomakyne (government-controlled, 90km S of Donetsk)	2-4km ENE	Recorded	2	Projectile	S to N	N/K	30-Nov, 20:27
	3-5km ESE	Recorded	8	Projectile	N to S (also recorded by SMM camera in Hnutove)	N/K	1-Dec, 16:31
	3-5km ENE	Recorded	5	Projectile	N to S (also recorded by SMM camera in Hnutove)	N/K	1-Dec, 16:31
	3-5km ESE	Recorded	1	Projectile	S to N	N/K	1-Dec, 17:34
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	3-5km E	Recorded	3	Explosion	Undetermined	N/K	30-Nov, 19:43
	3-5km ENE	Recorded	1	Illumination flare	N to S	N/K	30-Nov, 22:39
SMM camera 1km SW of Shyrokyne (government-controlled, 100km S of Donetsk)	3-5km NNE	Recorded	12	Projectile	E to W	N/K	30-Nov, 18:43
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	30-Nov, 19:35
	3-5km N	Recorded	1	Muzzle flash		N/K	30-Nov, 19:39
	4-7km N	Recorded	4	Projectile	E to W	N/K	30-Nov, 20:28
	4-7km N	Recorded	2	Projectile	E to W	N/K	30-Nov, 20:29
	4-7km N	Recorded	1	Projectile	W to E	N/K	30-Nov, 20:32
	4-7km NNE	Recorded	21	Projectile	E to W	N/K	30-Nov, 20:47
	4-7km N	Recorded	3	Projectile	E to W	N/K	30-Nov, 21:33
	4-7km N	Recorded	2	Projectile	W to E	N/K	30-Nov, 21:59
	4-7km N	Recorded	4	Projectile	W to E	N/K	30-Nov, 22:12
	4-7km N	Recorded	2	Projectile	ESE to WNW	N/K	30-Nov, 22:38
	3-5km N	Recorded	5	Projectile	ESE to WNW	N/K	1-Dec, 00:02
	3-5km N	Recorded	9	Projectile	W to E	N/K	1-Dec, 00:24
	4-7km N	Recorded	1	Projectile	E to W	N/K	1-Dec, 01:05
	4-7km N	Recorded	1	Projectile	W to E	N/K	1-Dec, 01:10
	4-7km N	Recorded	5	Projectile	W to E	N/K	1-Dec, 01:11
	4-7km N	Recorded	4	Projectile	W to E	N/K	1-Dec, 01:19
	4-7km N	Recorded	2	Projectile	W to E	N/K	1-Dec, 01:20
	4-7km N	Recorded	1	Explosion	Undetermined	N/K	1-Dec, 01:24
	3-5km N	Recorded	3	Projectile	WSW to ENE	N/K	1-Dec, 01:45
	4-7km N	Recorded	1	Muzzle flash		N/K	1-Dec, 01:46
	4-7km N	Recorded	3	Projectile	E to W	N/K	1-Dec, 01:46
	4-7km N	Recorded	1	Explosion	Undetermined	N/K	1-Dec, 01:46
	4-7km N	Recorded	1	Explosion	Undetermined	N/K	1-Dec, 01:49
	4-7km N	Recorded	1	Projectile	W to E	N/K	1-Dec, 02:26
	4-7km N	Recorded	1	Explosion	Undetermined	N/K	1-Dec, 02:26
	4-7km N	Recorded	3	Projectile	W to E	N/K	1-Dec, 02:28
	4-7km N	Recorded	1	Projectile	W to E	N/K	1-Dec, 02:45
	4-7km NNE	Recorded	1	Explosion	Undetermined	N/K	1-Dec, 03:07
	4-7km N	Recorded	2	Projectile	W to E	N/K	1-Dec, 03:38
	4-7km NNW	Recorded	2	Projectile	W to E	N/K	1-Dec, 03:51
	3-5km N	Recorded	2	Projectile	W to E	N/K	1-Dec, 16:40
	3-5km NNE	Recorded	3	Projectile	SSE to NNW	N/K	1-Dec, 17:04
3-5km N	Recorded	5	Projectile	W to E	N/K	1-Dec, 17:07	
3-5km N	Recorded	2	Projectile	E to W	N/K	1-Dec, 17:12	
3-5km N	Recorded	1	Muzzle flash		N/K	1-Dec, 17:19	
	3-5km N	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	1-Dec, 17:19

	3-5km NNE	Recorded	1	Explosion	Undetermined	N/K	1-Dec, 17:19
	3-5km N	Recorded	1	Muzzle flash		N/K	1-Dec, 17:20
	3-5km N	Recorded	2	Projectile	W to E	N/K	1-Dec, 17:20
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	1-Dec, 17:20
	3-5km N	Recorded	1	Projectile	W to E	N/K	1-Dec, 17:21
	3-5km NNE	Recorded	9	Projectile	ESE to WNW	N/K	1-Dec, 17:21
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	1-Dec, 17:21
	3-5km N	Recorded	1	Projectile	W to E	N/K	1-Dec, 17:22
	3-5km NNE	Recorded	1	Muzzle flash		N/K	1-Dec, 17:24
	3-5km NNE	Recorded	1	Projectile	SE to NW	N/K	1-Dec, 17:24
	3-5km NNE	Recorded	22	Projectile	ESE to WNW	N/K	1-Dec, 17:30
	3-5km NNE	Recorded	2	Projectile	ESE to WNW	N/K	1-Dec, 17:35
	3-5km N	Recorded	18	Projectile	ESE to WNW	N/K	1-Dec, 17:38
SMM camera in Svitlodarsk (government-controlled, 57km NE of Donetsk)	4-6km ESE	Recorded	20	Projectile	S to N	N/K	30-Nov, 18:39
	4-6km ESE	Recorded	1	Explosion	Impact	N/K	30-Nov, 18:39
	4-6km ESE	Recorded	3	Projectile	S to N	N/K	30-Nov, 18:40
	4-6km SE	Recorded	1	Projectile	S to N	N/K	30-Nov, 18:50
	3-6km ESE	Recorded	1	Projectile	NNW to SSE	N/K	30-Nov, 22:33
SE part of Avdiivka (government-controlled, 17km N of Donetsk)	3-4km ENE	Heard	1	Explosion	Undetermined	N/K	1-Dec, 08:56
	3-4km ENE	Heard	1	Shot		HMG	1-Dec, 09:07
	3-4km ENE	Heard	1	Burst		HMG	1-Dec, 09:07
About 4km NW of Debaltseve (non-government-controlled, 58km NE of Donetsk)	4-5km W	Heard	2	Explosion	Undetermined	N/K	1-Dec, 13:30
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	2-3km SE	Heard	1	Explosion	Undetermined	N/K	1-Dec, 08:58
Svitlodarsk (government-controlled, 57km NE of Donetsk)	2-3km SW	Heard	5	Burst		Small arms	1-Dec, 15:44
S edge of Zolote disengagement area (58km W of Luhansk)	3-4km NNE	Heard	1	Burst	Assessed as outside the Zolote disengagement area	Small arms	1-Dec, 11:15
Zolote-5/Mykhailivka (non-government-controlled, 58km W of Luhansk)	1-2km NNE	Heard	5	Shot	Assessed as outside the Zolote disengagement area	Small arms	1-Dec, 12:04-12:08

Map of Donetsk and Luhansk regions¹⁰



¹⁰ 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).