

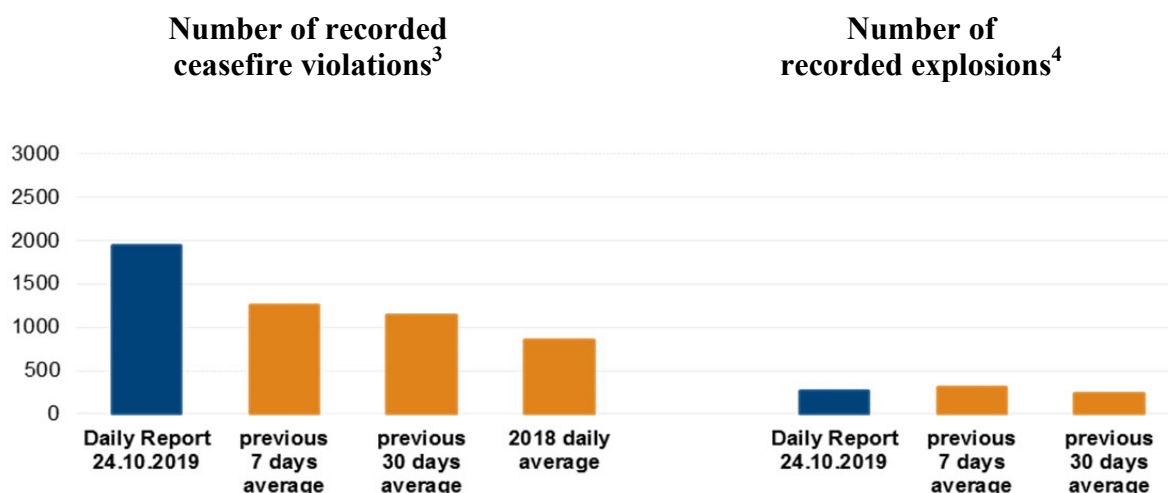
Daily Report 252/2019

24 October 2019¹

Summary

- Compared with the previous reporting period, the SMM recorded fewer ceasefire violations in both Donetsk and Luhansk regions.
- Inside the Stanytsia Luhanska disengagement area, the Mission continued to observe reconstruction works of the broken section of the bridge.
- The SMM saw for the first time an unexploded rocket-propelled grenade and anti-tank mines close to a road near Verkhnoшыrokyvske, anti-tank mines near Zaitseve and unexploded ordnance near Ridkodub.
- The Mission observed weapons in violation of withdrawal lines on both sides of the contact line.
- The SMM monitored adherence to the ceasefire to facilitate the operation of and repairs to critical civilian infrastructure along the contact line.
- The Mission continued to face restrictions of its freedom of movement and other impediments in establishing and reporting the facts following reports of incidents at a hospital in non-government-controlled Horlivka.*

Ceasefire violations²



¹ Based on information from the Monitoring Teams as of 19:30, 23 October 2019. All times are in Eastern European Summer Time.

² For a complete breakdown of ceasefire violations, please see the annexed table. During the reporting period, the SMM camera at the Donetsk Filtration Station was not operational.

³ Including explosions.

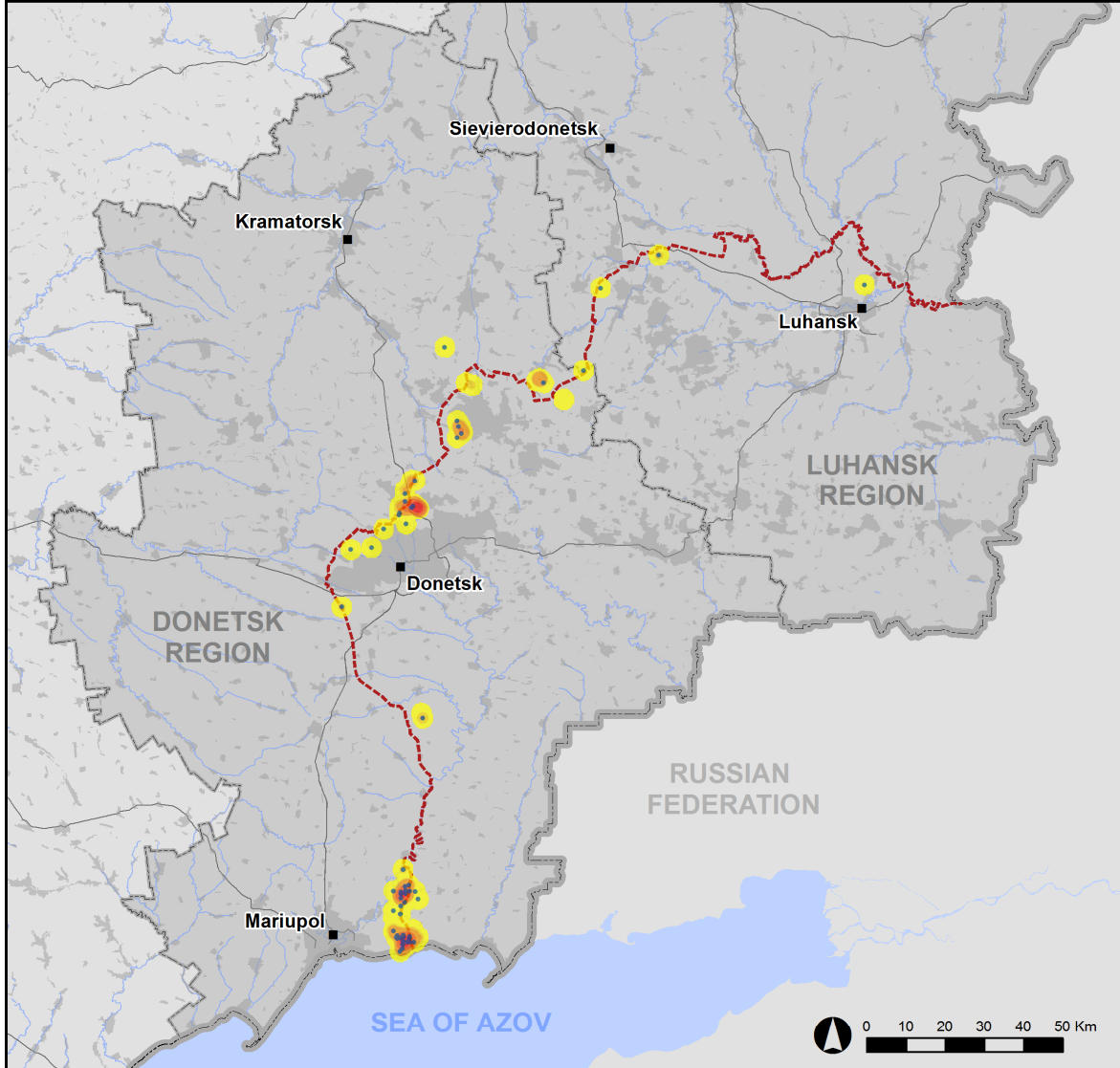
⁴ Including from unidentified weapons.

Map of recorded ceasefire violations

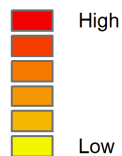


Organization for Security and
Co-operation in Europe
Special Monitoring Mission to Ukraine

Ceasefire violations observed by the SMM 23 October 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: 24/10/2019

In Donetsk region, the SMM recorded fewer ceasefire violations, including fewer explosions (245), compared with [the previous reporting period](#) (about 430 explosions). The majority of ceasefire violations were recorded at northerly directions of Shyrokyne (government-controlled, 100km south of Donetsk), at southerly directions of Pyshevyk (government-controlled, 84km south of Donetsk), and in areas north, north-north-east, north-east, east, and east-south-east of Lebedynske (government-controlled, 99km south of Donetsk).

In Luhansk region, the Mission recorded fewer ceasefire violations, all explosions (15), compared with [the previous reporting period](#) (23 explosions). The majority of them were recorded in areas west and west-north-west of Kadiivka (formerly Stakhanov, non-government-controlled, 50km west of Luhansk).

Disengagement areas near Stanytsia Luhanska, Zolote and Petrivske⁵

Inside **the disengagement area near Stanytsia Luhanska** (government-controlled, 16km north-east of Luhansk), the SMM saw workers from government-controlled areas near the broken section of the bridge finishing a cast to pour concrete into and preparing rebar for the northern-most concrete bridge pillar.

Also inside the disengagement area, between the checkpoint of the armed formations south of the bridge and a shelter of an international humanitarian organization, the SMM observed the installation of three 8m-high light poles. The Mission also saw deminers from non-government-controlled areas clearing and burning vegetation on the western side of the road opposite the above-mentioned shelter. The SMM saw at least eight members of the armed formations (wearing armbands with “JCCC” written on them) between the southern edge of the broken section of the bridge and the former parking area 200m south-east of the bridge.

Inside **the disengagement area near Zolote** (government-controlled, 60km west of Luhansk), the SMM observed a calm situation.

On 22 October, outside **the disengagement area near Petrivske** (non-government-controlled, 41km south of Donetsk), an SMM mini-unmanned aerial vehicle (UAV) spotted for the first time three anti-tank mines in a field south of the road between Petrivske and Viktorivka (non-government-controlled, 42km south-west of Donetsk), about 25m north of the disengagement area’s northern edge, and 80m further north-west of the mines, the UAV spotted a recoilless rifle system (SPG-9, 73mm) facing west next to a trench, assessed as belonging to the armed formations.

Positioned 1.8km north of Petrivske, the SMM heard six explosions and eight bursts of heavy-machine-gun fire, all at an assessed range of 2-3km south-east, and a shot of small-arms fire 1-2km east-south-east, all assessed as outside the disengagement area but within its 5km periphery.

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.

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 Mission observed 34 weapons in violation of withdrawal lines in a training area in a non-government-controlled area of Luhansk region and one weapon in government-controlled areas of Donetsk region. It also observed 31 weapons beyond withdrawal lines but outside of designated storage sites in the aforementioned training area in a non-government-controlled area of Luhansk region (for further details, see the tables below).

Weapons permanent storage sites

At a permanent storage site in a government-controlled area of Donetsk region

22 October

The SMM noted that 12 tanks (T-80) were missing for the first time, and that 62 tanks (26 T-64, and 36 T-64B); seven towed howitzers (D-44, 85mm); four mortars (M120-15 *Molot*, 120mm); six towed mortars (2B9 *Vasilek*, 82mm); and three towed mortars (PM-38, 120mm) continued to be missing. The SMM observed weapons present for the first time.

Indications of military presence in the security zone⁶

The SMM observed military presence in the security zone in government-controlled areas, including an armoured reconnaissance vehicle on the southern edge of Vrubivka (72km west of Luhansk) (for more details, see the table below).

Unexploded ordnance (UXO) and anti-tank mines near Verkhnohshyrovskivske, Ridkodub and near Zaitseve

The SMM saw for the first time an object, assessed as a rocket-propelled grenade (RPG-7), lying in a field 8-10m south of the road between Verkhnohshyrovskivske (formerly Oktiabr, non-government-controlled, 85km south of Donetsk) and Pyshechivk (government-controlled, 84km south of Donetsk), about 2km west of Verkhnohshyrovskivske (for similar observations see [SMM Daily Report 21 October](#)). The Mission also saw for the first time three anti-tank mines (TM-62) in a field 1-5m south of the same road, 1km west of Verkhnohshyrovskivske (for similar observations see [SMM Daily Report 22 October](#)).

On 21 October, along a local road in Ridkodub (non-government-controlled, 61km north-east of Donetsk), an SMM mini-UAV spotted for the first time UXO assessed as a high-explosive projectile (probable 122mm calibre) about 7m south of the road, a discarded RPG launcher (type unknown) lying on the ground and a tailfin of a rocket (calibre unknown) on a table on the field 40m west and another RPG launcher (type unknown) 2m east of the road. About 20m west and 10m east of the road, the UAV spotted three sandbags, three signs (assessed as possible mine hazard signs), as well as scattered remains of ammunition crates. About 70m east of the same road, the UAV spotted signs of ongoing demining activities (cleared vegetation and multiple excavations).

On 22 October, an SMM mid-range UAV [again](#) spotted 60 anti-tank mines laid in four rows about 1km north-west of Zaitseve (50km north-east of Donetsk). About 460m south-east of the aforementioned mines, the UAV also spotted for the first time two rows of about 65 anti-tank mines and further 17 anti-tank mines laid in a single row perpendicular to the aforementioned mines, assessed as belonging to the Ukrainian Armed Forces. The mid-range UAV also spotted for the first time six anti-tank mines laid across the road on Yesenina Street

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

in the south-western residential area of Zaitseve, near forward positions of the armed formations. Seven [previously reported](#) mines, which were laid across the same road, were no longer present.

SMM facilitation of operation of and repairs to civilian infrastructure

The SMM monitored adherence to the ceasefire to facilitate: repairs to power lines servicing the Petrivske pumping station near Artema (government-controlled, 26km north of Luhansk); the drilling of wells near Raivka (non-government-controlled, 16km north-west of Luhansk); repair works on the power network near Zaitseve; and the transportation of spare parts for telecommunications equipment from the vicinity of Horlivka to Debaltseve (non-government-controlled, 58km north-east of Donetsk).

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

The SMM continued monitoring in Odessa, Lviv, Ivano-Frankivsk, Kharkiv, Kherson, 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 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 23 October](#)). 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.

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:

- At Hospital No. 2 in Horlivka (non-government-controlled, 39km north-east of Donetsk), medical staff refused to provide the Mission with information about civilian casualties without written permission from members of the armed formations.

- An SMM mini-UAV lost its GPS signal on three occasions due to signal interference, assessed as caused by probable jamming, while flying near Petrivske (non-government-controlled, 41km south of Donetsk).⁷

Table of weapons

Weapons in violation of the withdrawal lines

Date	No.	Type	Location	Source of observation
Government-controlled areas				
23/10/2019	1	Surface-to-air missile system (9K33 <i>Osa</i>)	Near Kodema (57km north-east of Donetsk) (for previous observations, see SMM Daily Report 23 October 2019)	Patrol
Non-government-controlled areas				
19/10/2019	16	Self-propelled howitzer (2S1 <i>Gvozdika</i> , 122mm)	In a training area near Buhaivka (37km south-west of Luhansk) (for previous observations, see SMM Daily Report 21 October 2019)	Mini-UAV
	12	Towed howitzer (D-30 <i>Lyagushka</i> , 122mm)		
	6	Anti-tank gun (MT-12 <i>Rapira</i> , 100mm)		

Beyond withdrawal lines but outside of designated storage sites

Date	No.	Type	Location	Source of observation
Non-government-controlled areas				
19/10/2019	23	Tank (13 T-64 and ten T-72)	In a training area near Buhaivka (37km south-west of Luhansk)(the UAV spotted also about 80 armoured combat vehicles) ⁸	Mini UAV
	4	Towed mortar (type undetermined, 120mm)		
	4	Surface-to-air missile system (9K35 <i>Strela-10</i>)		

Table of indications of military presence in the security zone⁹

Date	No.	Type	Location	Source of observation
Government-controlled areas				
23/10/2019	1	Armoured reconnaissance vehicle (BRDM-2)	Southern edge of Vrubivka (72km west of Luhansk)	Patrol
	1	Armoured personnel carrier (KrAZ Cougar) with a heavy machine gun	Near Kamianka (20km north of Donetsk)	

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

⁸ Armoured combat vehicles mentioned in this section are not proscribed by the provisions of the Minsk agreements on the withdrawal of weapons.

⁹ The hardware mentioned in this section is not proscribed by the provisions of the Minsk agreements on the withdrawal of weapons.

Table of ceasefire violations as of 23 October 2019¹⁰

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk)	2-4km ENE	Recorded	18	Projectile	N to S	N/K	22-Oct, 19:33
	2-4km ENE	Recorded	2	Explosion	Undetermined	N/K	22-Oct, 20:49
	2-4km ENE	Recorded	1	Projectile	N to S	N/K	22-Oct, 22:06
	3-5km ENE	Recorded	3	Burst	S to N	N/K	22-Oct, 22:08
	3-5km ENE	Recorded	4	Projectile	N to S	N/K	22-Oct, 22:16
	3-5km ENE	Recorded	5	Projectile	N to S	N/K	22-Oct, 22:17
	3-5km ENE	Recorded	1	Projectile	S to N	N/K	22-Oct, 22:17
	3-5km ENE	Recorded	5	Projectile	SSW to NNE	N/K	22-Oct, 22:36
	3-5km ENE	Recorded	3	Projectile	NW to SE	N/K	22-Oct, 22:39
	3-5km ENE	Recorded	1	Explosion	Undetermined	N/K	22-Oct, 22:39
	3-5km ENE	Recorded	1	Projectile	SSW to NNE	N/K	22-Oct, 22:41
	2-4km E	Recorded	1	Explosion	Undetermined	N/K	22-Oct, 22:42
	3-5km ENE	Recorded	1	Projectile	In vertical flight	N/K	22-Oct, 22:42
	3-5km E	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 00:30
SMM camera E of Lomakyne (government-controlled, 90km S of Donetsk)	2-4km ENE	Recorded	1	Projectile	SE to NW	N/K	22-Oct, 18:50
	3-5km NE	Recorded	1	Explosion	Undetermined	N/K	22-Oct, 22:55
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	1-2km ENE	Recorded	4	Projectile	NNW to SSE	N/K	22-Oct, 22:30
	1-2km ENE	Recorded	1	Projectile	In vertical flight	N/K	22-Oct, 22:43
	2-4km E	Recorded	2	Projectile	In vertical flight	N/K	22-Oct, 22:51
	2-4km E	Recorded	6	Projectile	N to S	N/K	22-Oct, 23:03
SMM camera at entry-exit checkpoint in Pyshchevyk (government-controlled, 84km S of Donetsk)	1-2km S	Recorded	1	Projectile	NW to SE	N/K	22-Oct, 18:57
	1-2km S	Recorded	3	Projectile	W to E	N/K	22-Oct, 19:02
	2-3km S	Recorded	1	Projectile	W to E	N/K	22-Oct, 19:06
	2-3km S	Recorded	1	Projectile	NW to SE	N/K	22-Oct, 19:24
	1-2km SSE	Recorded	16	Projectile	NE to SW	N/K	22-Oct, 19:33
	2-4km S	Recorded	4	Projectile	W to E	N/K	22-Oct, 20:11
	3-5km S	Recorded	1	Explosion	Undetermined	N/K	22-Oct, 20:12
	2-4km S	Recorded	1	Projectile	W to E	N/K	22-Oct, 20:12
	2-4km S	Recorded	2	Projectile	W to E	N/K	22-Oct, 20:18
	2-4km SSE	Recorded	12	Projectile	E to W	N/K	22-Oct, 20:18
	2-4km SSE	Recorded	20	Projectile	E to W	N/K	22-Oct, 20:21
	2-4km S	Recorded	2	Projectile	W to E	N/K	22-Oct, 20:21
	2-4km S	Recorded	2	Projectile	W to E	N/K	22-Oct, 20:22
	2-4km S	Recorded	1	Projectile	W to E	N/K	22-Oct, 20:27
	2-4km S	Recorded	1	Projectile	W to E	N/K	22-Oct, 20:37
	2-4km SSE	Recorded	20	Projectile	W to E	N/K	22-Oct, 21:13
	2-4km S	Recorded	7	Projectile	E to W	N/K	22-Oct, 21:13
	2-4km SSE	Recorded	6	Projectile	W to E	N/K	22-Oct, 21:20
	2-4km SSE	Recorded	8	Projectile	W to E	N/K	22-Oct, 21:21
	2-4km S	Recorded	1	Muzzle flash		N/K	22-Oct, 21:21
2-4km SSE	Recorded	12	Projectile	WSW to ENE	N/K	22-Oct, 21:58	
2-4km SSE	Recorded	8	Projectile	WSW to ENE	N/K	22-Oct, 21:59	

¹⁰ 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.

	2-4km SSE	Recorded	5	Projectile	WSW to ENE	N/K	22-Oct, 22:04
	2-4km S	Recorded	6	Projectile	W to E	N/K	22-Oct, 22:05
	2-4km S	Recorded	1	Projectile	E to W	N/K	22-Oct, 22:05
	2-4km SSE	Recorded	3	Projectile	W to E	N/K	22-Oct, 22:06
	2-4km S	Recorded	2	Projectile	W to E	N/K	22-Oct, 22:22
	2-4km S	Recorded	6	Projectile	W to E	N/K	22-Oct, 22:23
	2-4km SSE	Recorded	1	Projectile	W to E	N/K	22-Oct, 22:24
	2-4km S	Recorded	7	Projectile	W to E	N/K	22-Oct, 22:25
	2-4km S	Recorded	1	Projectile	W to E	N/K	22-Oct, 22:26
	2-4km S	Recorded	1	Projectile	W to E	N/K	22-Oct, 22:27
	2-4km S	Recorded	1	Projectile	W to E	N/K	22-Oct, 22:49
	2-4km SSE	Recorded	5	Projectile	W to E	N/K	22-Oct, 23:01
	2-4km S	Recorded	4	Projectile	W to E	N/K	22-Oct, 23:12
	2-4km S	Recorded	6	Projectile	W to E	N/K	22-Oct, 23:14
	2-4km SSE	Recorded	2	Projectile	E to W	N/K	22-Oct, 23:14
	3-4km S	Recorded	2	Burst	W to E	N/K	22-Oct, 23:37
	3-4km S	Recorded	5	Projectile	W to E	N/K	22-Oct, 23:38
	2-3km S	Recorded	1	Projectile	NW to SE	N/K	23-Oct, 00:05
	2-3km S	Recorded	1	Explosion	Airburst	N/K	23-Oct, 00:05
	3-4km S	Recorded	2	Projectile	W to E	N/K	23-Oct, 00:06
	3-4km S	Recorded	2	Projectile	W to E	N/K	23-Oct, 00:11
	3-4km S	Recorded	3	Projectile	W to E	N/K	23-Oct, 00:12
	3-4km S	Recorded	13	Projectile	W to E	N/K	23-Oct, 00:13
	3-4km S	Recorded	16	Projectile	W to E	N/K	23-Oct, 00:14
	5-7km S	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 00:17
	7-9km S	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 00:18
	3-4km S	Recorded	2	Projectile	NE to SW	N/K	23-Oct, 00:19
	3-4km S	Recorded	1	Projectile	In vertical flight	N/K	23-Oct, 00:19
	3-4km S	Recorded	16	Projectile	NE to SW	N/K	23-Oct, 00:23
	7-9km S	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 00:25
	3-4km S	Recorded	10	Projectile	WNW to ESE	N/K	23-Oct, 00:29
	7-9km S	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 00:29
	3-4km S	Recorded	1	Muzzle flash		N/K	23-Oct, 00:31
	3-4km S	Recorded	1	Projectile	NE to SW	N/K	23-Oct, 00:31
	7-9km S	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 00:32
	3-5km S	Recorded	3	Projectile	WNW to ESE	N/K	23-Oct, 00:32
	3-4km S	Recorded	2	Projectile	W to E	N/K	23-Oct, 00:33
	3-5km S	Recorded	10	Projectile	WNW to ESE	N/K	23-Oct, 00:34
	3-5km S	Recorded	11	Projectile	W to E	N/K	23-Oct, 00:36
	7-9km S	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 00:36
	5-7km S	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 00:38
	2-4km S	Recorded	1	Projectile	E to W	N/K	23-Oct, 00:44
	2-4km S	Recorded	1	Explosion	Airburst	N/K	23-Oct, 01:15
	3-5km SSE	Recorded	4	Projectile	In vertical flight	N/K	23-Oct, 01:27
	3-5km SSE	Recorded	4	Projectile	WSW to ENE	N/K	23-Oct, 01:28
	3-5km S	Recorded	4	Projectile	E to W	N/K	23-Oct, 02:04
	3-5km S	Recorded	2	Projectile	E to W	N/K	23-Oct, 02:44
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 03:01
	2-4km SSE	Recorded	1	Projectile	W to E	N/K	23-Oct, 03:01
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 03:02
	2-3km SSE	Recorded	1	Projectile	W to E	N/K	23-Oct, 03:02
	3-5km SSE	Recorded	2	Projectile	W to E	N/K	23-Oct, 03:05
SMM camera 1km SW of Shyrokyne (government- controlled, 100km S of Donetsk)	2-4km N	Recorded	1	Projectile	WNW to ESE	N/K	22-Oct, 18:33
	2-4km N	Recorded	3	Projectile	WNW to ESE	N/K	22-Oct, 18:35
	2-4km N	Recorded	2	Projectile	WNW to ESE	N/K	22-Oct, 18:36
	2-4km N	Recorded	2	Projectile	WNW to ESE	N/K	22-Oct, 18:41
	2-4km N	Recorded	5	Projectile	WNW to ESE	N/K	22-Oct, 18:58
	4-6km N	Recorded	4	Projectile	WSW to ENE	N/K	22-Oct, 19:16
	4-6km N	Recorded	2	Projectile	WSW to ENE	N/K	22-Oct, 19:30
	4-6km N	Recorded	1	Projectile	SSW to NNE	N/K	22-Oct, 19:30

4-6km N	Recorded	2	Projectile	WNW to ESE	N/K	22-Oct, 19:44
4-6km N	Recorded	6	Projectile	WNW to ESE	N/K	22-Oct, 19:45
2-4km N	Recorded	1	Projectile	W to E	N/K	22-Oct, 20:13
2-4km N	Recorded	1	Projectile	In vertical flight	N/K	22-Oct, 20:13
2-4km N	Recorded	1	Projectile	W to E	N/K	22-Oct, 20:15
2-4km N	Recorded	1	Projectile	W to E	N/K	22-Oct, 20:16
2-4km NNE	Recorded	3	Explosion	Undetermined	N/K	22-Oct, 20:16
2-4km N	Recorded	1	Projectile	WSW to ENE	N/K	22-Oct, 20:18
2-4km N	Recorded	1	Projectile	WSW to ENE	N/K	22-Oct, 20:19
2-4km N	Recorded	9	Projectile	W to E	N/K	22-Oct, 20:23
2-4km N	Recorded	2	Projectile	W to E	N/K	22-Oct, 20:24
2-4km N	Recorded	2	Projectile	W to E	N/K	22-Oct, 20:27
2-4km N	Recorded	5	Projectile	W to E	N/K	22-Oct, 20:30
2-4km N	Recorded	1	Projectile	WSW to ENE	N/K	22-Oct, 20:35
2-4km N	Recorded	1	Projectile	WSW to ENE	N/K	22-Oct, 20:45
2-4km N	Recorded	4	Projectile	W to E	N/K	22-Oct, 20:50
2-4km N	Recorded	2	Projectile	W to E	N/K	22-Oct, 20:51
3-5km N	Recorded	1	Explosion	Undetermined	N/K	22-Oct, 20:51
2-4km N	Recorded	1	Projectile	W to E	N/K	22-Oct, 20:59
2-4km N	Recorded	2	Projectile	W to E	N/K	22-Oct, 21:00
2-4km NNE	Recorded	5	Projectile	E to W	N/K	22-Oct, 21:13
2-4km NNE	Recorded	3	Projectile	W to E	N/K	22-Oct, 21:13
2-4km NNE	Recorded	2	Projectile	W to E	N/K	22-Oct, 21:19
2-4km NNE	Recorded	1	Projectile	SSE to NNW	N/K	22-Oct, 21:19
2-4km N	Recorded	1	Projectile	W to E	N/K	22-Oct, 21:22
2-4km N	Recorded	3	Projectile	W to E	N/K	22-Oct, 21:23
2-4km N	Recorded	2	Projectile	W to E	N/K	22-Oct, 21:33
2-4km NNE	Recorded	4	Projectile	WSW to ENE	N/K	22-Oct, 21:34
2-4km NNE	Recorded	1	Projectile	ESE to WNW	N/K	22-Oct, 21:34
2-4km NNE	Recorded	7	Projectile	E to W	N/K	22-Oct, 21:35
2-4km NNE	Recorded	5	Projectile	W to E	N/K	22-Oct, 21:35
2-4km NNE	Recorded	1	Muzzle flash		N/K	22-Oct, 21:35
2-4km N	Recorded	6	Projectile	W to E	N/K	22-Oct, 21:39
2-4km NNE	Recorded	4	Projectile	W to E	N/K	22-Oct, 21:39
2-4km NNE	Recorded	2	Projectile	W to E	N/K	22-Oct, 21:56
2-4km NNE	Recorded	2	Projectile	W to E	N/K	22-Oct, 21:57
2-4km NNE	Recorded	6	Projectile	W to E	N/K	22-Oct, 21:58
2-4km NNE	Recorded	2	Projectile	W to E	N/K	22-Oct, 21:59
2-4km NNE	Recorded	2	Projectile	E to W	N/K	22-Oct, 21:59
2-4km NNE	Recorded	5	Projectile	W to E	N/K	22-Oct, 22:00
2-4km NNE	Recorded	8	Projectile	W to E	N/K	22-Oct, 22:01
2-4km NNE	Recorded	1	Projectile	WSW to ENE	N/K	22-Oct, 22:01
2-4km NNE	Recorded	2	Projectile	W to E	N/K	22-Oct, 22:02
2-4km NNE	Recorded	8	Projectile	W to E	N/K	22-Oct, 22:03
2-4km NNE	Recorded	4	Projectile	W to E	N/K	22-Oct, 22:04
2-4km NNE	Recorded	1	Muzzle flash		N/K	22-Oct, 22:04
2-4km NNE	Recorded	10	Projectile	W to E	N/K	22-Oct, 22:05
2-4km NNE	Recorded	1	Projectile	ESE to WNW	N/K	22-Oct, 22:05
2-4km NNE	Recorded	5	Projectile	W to E	N/K	22-Oct, 22:06
2-4km NNE	Recorded	1	Projectile	ESE to WNW	N/K	22-Oct, 22:06
2-4km NNE	Recorded	1	Projectile	W to E	N/K	22-Oct, 22:07
2-4km NNE	Recorded	1	Projectile	E to W	N/K	22-Oct, 22:08
2-4km NNE	Recorded	1	Projectile	SE to NW	N/K	22-Oct, 22:18
2-4km N	Recorded	1	Projectile	W to E	N/K	22-Oct, 22:22
2-4km N	Recorded	3	Projectile	W to E	N/K	22-Oct, 22:23
2-4km N	Recorded	3	Projectile	W to E	N/K	22-Oct, 22:25
2-4km N	Recorded	12	Projectile	W to E	N/K	22-Oct, 22:32
2-4km N	Recorded	5	Projectile	W to E	N/K	22-Oct, 22:33
2-4km N	Recorded	1	Muzzle flash		N/K	22-Oct, 22:34
2-4km N	Recorded	1	Projectile	W to E	N/K	22-Oct, 22:34

3-5km N	Recorded	1	Projectile	WSW to ENE	N/K	22-Oct, 22:36
3-5km N	Recorded	1	Projectile	W to E	N/K	22-Oct, 22:45
2-4km N	Recorded	1	Muzzle flash		N/K	22-Oct, 22:49
2-4km N	Recorded	1	Projectile	W to E	N/K	22-Oct, 22:49
2-4km N	Recorded	1	Explosion	Airburst	N/K	22-Oct, 22:49
3-5km NNW	Recorded	1	Explosion	Undetermined	N/K	22-Oct, 23:00
2-4km N	Recorded	1	Explosion	Undetermined	N/K	22-Oct, 23:00
3-5km N	Recorded	2	Projectile	W to E	N/K	22-Oct, 23:01
2-4km N	Recorded	6	Projectile	W to E	N/K	22-Oct, 23:06
2-4km N	Recorded	3	Projectile	W to E	N/K	22-Oct, 23:14
2-4km N	Recorded	1	Projectile	W to E	N/K	22-Oct, 23:17
3-5km N	Recorded	1	Explosion	Undetermined	N/K	22-Oct, 23:17
3-5km N	Recorded	1	Explosion	Undetermined	N/K	22-Oct, 23:18
2-4km N	Recorded	4	Projectile	W to E	N/K	22-Oct, 23:18
2-4km N	Recorded	3	Projectile	W to E	N/K	22-Oct, 23:19
3-5km N	Recorded	2	Explosion	Undetermined	N/K	22-Oct, 23:23
2-4km N	Recorded	9	Projectile	W to E	N/K	22-Oct, 23:33
1-3km NNE	Recorded	5	Projectile	W to E	N/K	22-Oct, 23:37
3-5km NE	Recorded	1	Explosion	Undetermined	N/K	22-Oct, 23:55
2-4km N	Recorded	2	Projectile	W to E	N/K	23-Oct, 00:00
3-5km N	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 00:03
3-5km N	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 00:05
3-5km N	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 00:07
3-5km N	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 00:09
3-5km N	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 00:11
3-5km N	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 00:13
3-5km N	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 00:15
3-5km N	Recorded	3	Explosion	Undetermined	N/K	23-Oct, 00:17
3-5km N	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 00:18
3-5km N	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 00:19
3-5km N	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 00:20
2-4km N	Recorded	1	Projectile	W to E	N/K	23-Oct, 00:20
3-5km NNE	Recorded	2	Explosion	Undetermined	N/K	23-Oct, 00:21
3-5km NNE	Recorded	2	Explosion	Undetermined	N/K	23-Oct, 00:22
3-5km NNE	Recorded	2	Explosion	Undetermined	N/K	23-Oct, 00:27
2-4km N	Recorded	3	Projectile	WSW to ENE	N/K	23-Oct, 00:38
2-4km N	Recorded	5	Projectile	WSW to ENE	N/K	23-Oct, 00:52
2-4km N	Recorded	1	Projectile	W to E	N/K	23-Oct, 01:09
2-4km N	Recorded	1	Projectile	SW to NE	N/K	23-Oct, 01:09
2-4km N	Recorded	1	Projectile	SW to NE	N/K	23-Oct, 01:10
2-4km N	Recorded	4	Projectile	W to E	N/K	23-Oct, 01:26
2-4km N	Recorded	4	Projectile	W to E	N/K	23-Oct, 01:40
2-4km N	Recorded	1	Projectile	W to E	N/K	23-Oct, 01:51
2-4km NNE	Recorded	1	Projectile	S to N	N/K	23-Oct, 02:09
2-4km NNE	Recorded	1	Projectile	WSW to ENE	N/K	23-Oct, 02:09
2-4km NNE	Recorded	1	Projectile	S to N	N/K	23-Oct, 02:09
3-5km N	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 02:34
2-4km NNE	Recorded	7	Projectile	E to W	N/K	23-Oct, 02:51
3-5km N	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 02:57
2-4km NNE	Recorded	1	Projectile	ESE to WNW	N/K	23-Oct, 02:58
3-5km N	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 03:56
3-5km N	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 03:58
3-5km N	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 04:01
3-5km N	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 04:19
2-4km N	Recorded	10	Projectile	W to E	N/K	23-Oct, 05:24
2-3km N	Recorded	9	Projectile	SW to NE	N/K	23-Oct, 05:51
2-7km NE	Recorded	5	Projectile	SW to NE	N/K	23-Oct, 17:56
2-7km NNE	Recorded	10	Projectile	SW to NE	N/K	23-Oct, 17:57
2-7km NNE	Recorded	12	Projectile	WNW to ESE	N/K	23-Oct, 17:58
2-7km NNE	Recorded	12	Projectile	WNW to ESE	N/K	23-Oct, 18:00

	2-7km NNE	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 18:00
	2-7km NNE	Recorded	9	Projectile	WNW to ESE	N/K	23-Oct, 18:01
	2-7km NNE	Recorded	15	Projectile	WNW to ESE	N/K	23-Oct, 18:02
	2-7km NNE	Recorded	9	Projectile	WNW to ESE	N/K	23-Oct, 18:03
	2-7km N	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 18:16
	2-7km N	Recorded	1	Explosion	Undetermined	N/K	23-Oct, 18:18
	2-7km N	Recorded	12	Projectile	WNW to ESE	N/K	23-Oct, 18:18
	2-7km N	Recorded	7	Projectile	WNW to ESE	N/K	23-Oct, 18:30
SE part of Avdiivka (government-controlled, 17km N of Donetsk)	1-2km S	Heard	3	Burst		Small arms	23-Oct, 09:02
	1-2km S	Heard	10	Burst		Small arms	23-Oct, 09:31
	2-4km S	Heard	1	Explosion	Undetermined	N/K	23-Oct, 10:12
	2-3km ESE	Heard		Shot	Uncountable	Small arms	23-Oct, 10:33
	2-3km SE	Heard		Shot	Uncountable	Small arms	23-Oct, 10:45-11:00
	1km SE	Heard	6	Shot		Small arms	23-Oct, 12:05
	3-4km S	Heard	3	Explosion	Undetermined	N/K	23-Oct, 12:15
	1-2km SE	Heard	3	Shot		Small arms	23-Oct, 12:55
Debaltseve (non-government-controlled, 58km NE of Donetsk)	2-3km WNW	Heard	2	Burst		HMG	23-Oct, 11:54
Donetsk central railway station (non-government-controlled, 6km NW of Donetsk city centre)	4-6km NE	Heard	1	Explosion	Undetermined	N/K	23-Oct, 10:12
	2-4km NW	Heard	2	Explosion	Undetermined	N/K	23-Oct, 10:30
	2-4km NW	Heard	1	Explosion	Undetermined	N/K	23-Oct, 10:36
Marinka (government-controlled, 23km SW of Donetsk)	8km SE	Heard	9	Explosion	Undetermined	N/K	23-Oct, 13:45-13:50
Staromykhailivka (non-government-controlled, 15km W of Donetsk)	1-2km N	Heard	1	Explosion	Undetermined	N/K	23-Oct, 10:07
1.8km N of Petrivske (non-government-controlled, 41km S of Donetsk)	1-2km ESE	Heard	1	Shot	Assessed as outside the disengagement area	Small arms	23-Oct, 09:40
	2-3km SE	Heard	8	Burst	Assessed as outside the disengagement area	HMG	23-Oct, 11:41
	2-3km SE	Heard	6	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	23-Oct, 11:41
About 1km NW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	1-2km SW	Heard		Burst	Uncountable	Small arms	23-Oct, 09:18-09:35
	1-2km SW	Heard		Burst	Uncountable	HMG	23-Oct, 09:18-09:35
	2-3km SW	Heard	1	Explosion	Undetermined	N/K	23-Oct, 09:47
	1-2km SW	Heard	8	Burst		Small arms	23-Oct, 10:02-10:40
	2km S	Heard	27	Shot		Small arms	23-Oct, 10:02-10:40
	2km S	Heard		Shot	Uncountable	Small arms	23-Oct, 10:02-11:15
	2km SW	Heard	3	Explosion	Undetermined	N/K	23-Oct, 11:10-

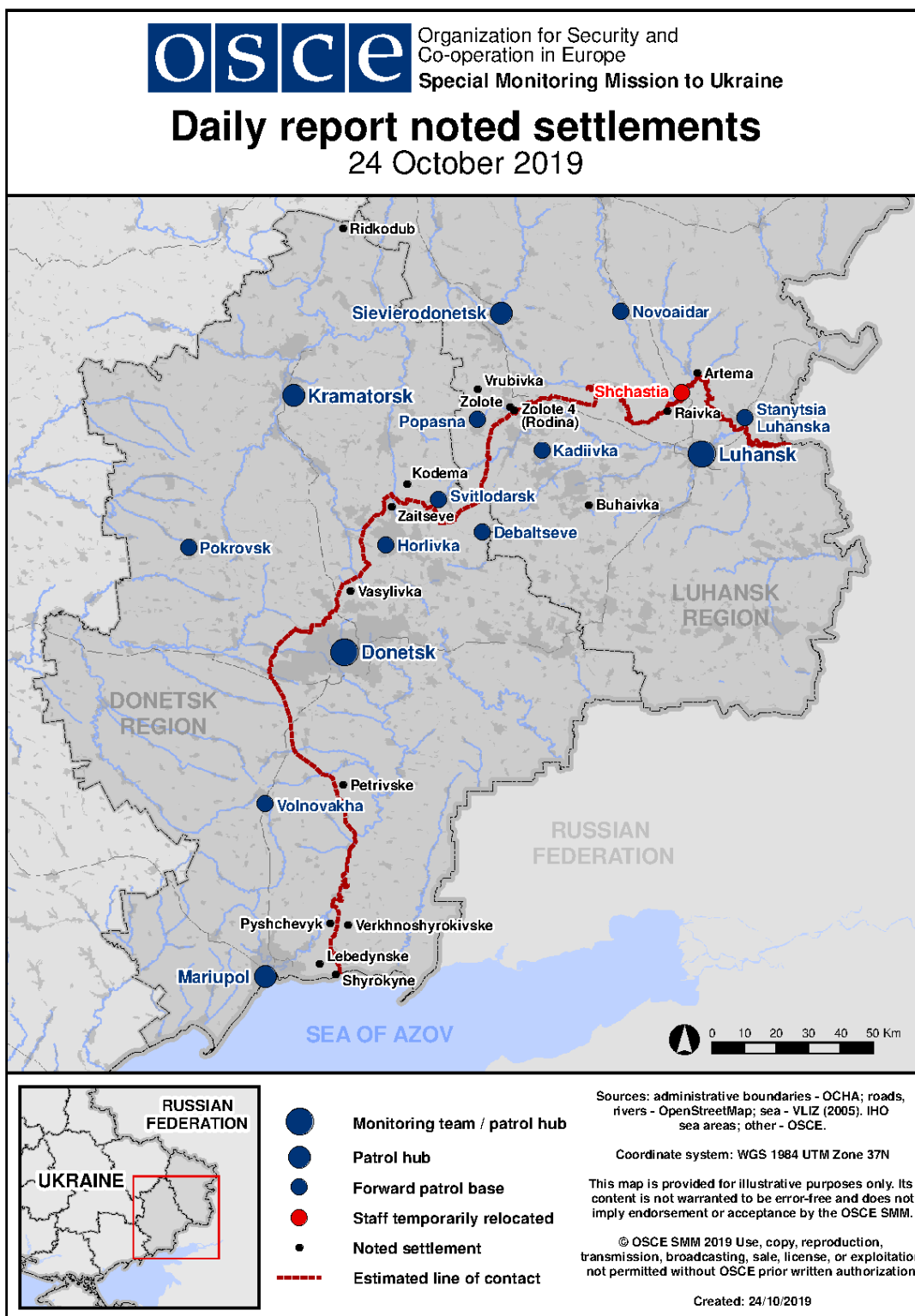
							11:15
	2-3km SW	Heard	3	Explosion	Undetermined	N/K	23-Oct, 11:22-11:34
	2-3km SW	Heard	3	Burst		Small arms	23-Oct, 11:37
	2-3km SW	Heard	1	Burst		AGL	23-Oct, 11:37
	2-3km SW	Heard	3	Explosion	Undetermined	N/K	23-Oct, 11:57
	2-3km SW	Heard	12	Burst		Small arms	23-Oct, 12:00-12:06
	2-3km SW	Heard	6	Explosion	Undetermined	N/K	23-Oct, 12:10-12:30
	2-3km SW	Heard	9	Explosion	Undetermined	N/K	23-Oct, 13:43-14:32
	2-3km SW	Heard	2	Shot	Outgoing	Mortar (type N/K)	23-Oct, 14:14
1.2km S of Vesele (non-government-controlled, 9km NW of Donetsk)	4-6km SW	Heard	2	Explosion	Undetermined	N/K	23-Oct, 12:12-12:14
About 2km SW of Pyshevyk (government-controlled, 84km S of Donetsk)	5-7km NNE	Heard	7	Explosion	Undetermined	N/K	23-Oct, 09:45-09:49
	5-7km NNE	Heard	2	Explosion	Undetermined	N/K	23-Oct, 09:50
	3-5km SE	Heard	2	Shot		Small arms	23-Oct, 10:00
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	23-Oct, 10:00
	5-6km E	Heard	1	Explosion	Undetermined	N/K	23-Oct, 10:05
	N/K SSE	Heard	1	Explosion	Undetermined	N/K	23-Oct, 10:21
	N/K SSE	Heard	1	Explosion	Undetermined	N/K	23-Oct, 11:11
About 1km W of Verkhnohyrokiivske (formerly Oktiabr, non-government-controlled, 85km S of Donetsk)	2-3km S	Heard	1	Explosion	Undetermined	N/K	23-Oct, 10:21
1.2km SW of Lebedynske (government-controlled, 99km S of Donetsk)	2-3km NE	Heard	2	Explosion	Undetermined	N/K	23-Oct, 10:20
About 2km SE of Lebedynske (government-controlled, 99km S of Donetsk)	2-3km NE	Heard	1	Shot		Small arms	23-Oct, 12:10
	2-3km ESE	Heard	1	Explosion	Undetermined	N/K	23-Oct, 12:36-12:41
	2-3km ESE	Heard	27	Explosion	Undetermined	N/K	23-Oct, 12:36-12:41
	2-3km ESE	Heard	2	Burst		HMG	23-Oct, 12:36-12:41
	2-5km N	Heard	22	Explosion	Undetermined	N/K	23-Oct, 12:46-12:52
	2-5km N	Heard	2	Burst		HMG	23-Oct, 12:46-12:52
	2-5km N	Heard		Shot	Uncountable	Small arms	23-Oct, 12:46-12:52
	2-3km ESE	Heard	1	Explosion	Undetermined	N/K	23-Oct, 12:51
	2-3km ESE	Heard	1	Burst		Small arms	23-Oct, 12:51
	2-3km ESE	Heard	4	Burst		HMG	23-Oct, 12:57-13:03
	2-3km ESE	Heard	3	Explosion	Undetermined	N/K	23-Oct, 12:57-13:03
	2-3km ESE	Heard	5	Shot		Small arms	23-Oct, 12:57-13:03

	1-3km NNE	Heard	5	Shot		Small arms	23-Oct, 12:59-13:03
	1-3km NNE	Heard	1	Explosion	Undetermined	N/K	23-Oct, 12:59-13:03
	2-3km NNE	Heard	4	Burst		HMG	23-Oct, 13:13-13:23
	2-3km NNE	Heard	2	Burst		Small arms	23-Oct, 13:13-13:23
	2-3km E	Heard	10	Shot		Small arms	23-Oct, 12:40-13:23
	2-3km E	Heard	12	Burst		Small arms	23-Oct, 12:40-13:23
	2-3km E	Heard	6	Explosion	Undetermined	N/K	23-Oct, 12:40-13:23
	2-3km ESE	Heard	2	Shot		Small arms	23-Oct, 12:40-13:20
	2-3km ESE	Heard	1	Burst		Small arms	23-Oct, 12:40-13:20
	2-3km SE	Heard	1	Explosion	Undetermined	N/K	23-Oct, 12:40-13:20
	2-3km E	Heard	8	Shot		Small arms	23-Oct, 13:23-13:42
	2-3km E	Heard	6	Burst		Small arms	23-Oct, 13:23-13:42
	2-3km E	Heard	2	Explosion	Undetermined	N/K	23-Oct, 13:23-13:42
	2-3km E	Heard	1	Burst		HMG	23-Oct, 13:23-13:42
	2-3km ESE	Heard	7	Explosion	Undetermined	N/K	23-Oct, 13:23-13:42
	2-3km ESE	Heard	3	Shot		Small arms	23-Oct, 13:23-13:42
	1-3km NNE	Heard	1	Shot		Small arms	23-Oct, 13:23-13:42
	2-3km ESE	Heard	2	Explosion	Undetermined	N/K	23-Oct, 13:43-13:55
	2-3km NNE	Heard	1	Explosion	Undetermined	N/K	23-Oct, 13:43-13:55
	2-3km NNE	Heard	3	Burst		Small arms	23-Oct, 13:43-13:55
N part of Sakhanka (non-government-controlled, 97km S of Donetsk)	1-2.5km NW	Heard	8	Burst		Small arms	23-Oct, 12:12-12:14
	2.5-3km SW	Heard	20	Shot		Cannon 30mm	23-Oct, 12:25-12:40
	2.5-3km SW	Heard	20	Explosion	Impact	N/K	23-Oct, 12:25-12:40
About 2km SSE of Sakhanka (non-government-controlled, 97km S of Donetsk)	2km NNW	Heard	15	Shot		AGL	23-Oct, 13:45-13:49
	2km NNW	Heard		Burst	Uncountable	Small arms	23-Oct, 13:53
1.6km SE of Lomakyne (government-controlled, 93km S of Donetsk)	3-4km ESE	Heard	1	Burst		Cannon 23mm	23-Oct, 14:22
Horlivka (non-government-controlled, 39km NE of Donetsk)	3-5km SW	Heard	1	Explosion	Undetermined	N/K	22-Oct, 19:31
	1-3km SW	Heard	5	Burst		Small arms	22-Oct, 20:52
	1-3km SW	Heard	4	Burst		Small arms	22-Oct, 20:55
	2-3km SW	Heard	6	Burst		HMG	22-Oct, 22:09
	2-3km SW	Heard	3	Burst		Small arms	22-Oct, 22:13

	1-3km SW	Heard	7	Burst		Small arms	22-Oct, 23:04
	1-3km SW	Heard	8	Shot		Small arms	22-Oct, 23:23
	1-3km W	Heard	6	Burst		Small arms	22-Oct, 23:53
	1-3km SW	Heard	3	Burst		Small arms	22-Oct, 23:59
	1-3km SW	Heard	8	Shot		Small arms	23-Oct, 00:38
	2-3km W	Heard	4	Explosion	Undetermined	N/K	23-Oct, 08:17-08:20
	2-3km W	Heard	21	Burst		HMG	23-Oct, 08:17-08:20
	2-3km SW	Heard	7	Explosion	Undetermined	N/K	23-Oct, 13:00
	2-3km SW	Heard	2	Burst		HMG	23-Oct, 16:52
	1-3km W	Heard	5	Shot		Small arms	23-Oct, 18:06
N edge of Horlivka (non-government-controlled, 39 km NE of Donetsk)	6-8km SW	Heard	1	Explosion	Undetermined	N/K	23-Oct, 10:35
About 6km NNW of Horlivka (non-government controlled, 39km NE of Donetsk)	4-6km W	Heard	2	Explosion	Undetermined	N/K	23-Oct, 11:46
Svitlodarsk (government-controlled, 57km NE of Donetsk)	2-3km SSE	Heard	4	Burst		Small arms	22-Oct, 18:55
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	22-Oct, 19:01
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	22-Oct, 19:18
	2-3km SE	Heard	2	Burst		HMG	22-Oct, 19:55
	2-3km SE	Heard	7	Burst		HMG	22-Oct, 22:08
	3-5km SE	Heard	2	Explosion	Undetermined	N/K	22-Oct, 22:30
	2-3km SE	Heard	5	Burst		HMG	22-Oct, 22:36
	3-5km SE	Heard	3	Explosion	Undetermined	N/K	22-Oct, 22:48
	2-3km SE	Heard	8	Shot		Small arms	22-Oct, 23:07
	2-3km SE	Heard	6	Burst		HMG	22-Oct, 23:17
	2-3km SE	Heard	4	Burst		HMG	22-Oct, 23:48
	2-3km SE	Heard	12	Shot		Small arms	22-Oct, 23:50
	2-3km SE	Heard	10	Burst		HMG	23-Oct, 14:24
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	2-3km S	Heard	10	Burst		HMG	23-Oct, 09:25
	2-3km S	Heard	5	Burst		HMG	23-Oct, 09:30
	3-4km S	Heard	1	Explosion	Undetermined	N/K	23-Oct, 09:50
	5-6km S	Heard	1	Explosion	Undetermined	N/K	23-Oct, 10:10
	2-3km E	Heard	3	Burst		Small arms	23-Oct, 10:35
	1-2km E	Heard		Burst	Uncountable	Small arms	23-Oct, 13:05-13:08
	1-2km E	Heard	20	Burst		Small arms	23-Oct, 13:12
	2-3km E	Heard	1	Explosion	Undetermined	N/K	23-Oct, 14:52
2.3km NNW of Luhanske (government-controlled, 59km NE of Donetsk)	8-10km E	Saw	1	Explosion	Undetermined	N/K	3-Oct, 15:55
Kadiivka (formerly Stakhanov, non-government-	12-17km N	Heard	10	Explosion	Undetermined	N/K	22-Oct, 20:40-20:50
	14-18km WNW	Heard	3	Explosion	Undetermined	N/K	23-Oct, 16:03-16:05

controlled, 50km W of Luhansk)							
250m N of Stanytsia Luhanska Bridge (15km NE of Luhansk)	8-10km W	Heard	2	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	23-Oct, 14:47

Map of Donetsk and Luhansk regions¹¹



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