



Daily Report 237/2019

7 October 2019¹

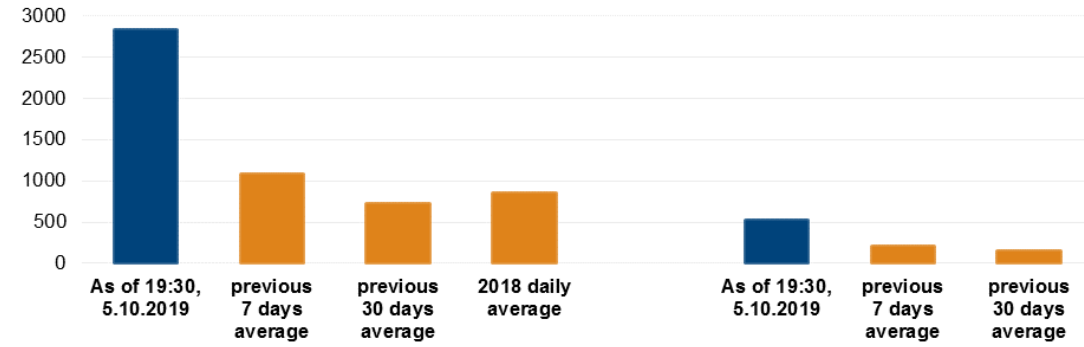
Summary

- Compared with the previous reporting period, between the evenings of 4 and 5 October, the SMM recorded more ceasefire violations in both Donetsk and Luhansk regions.
- Between the evenings of 5 and 6 October, the Mission recorded fewer ceasefire violations in both Donetsk and Luhansk regions, compared with the previous 24 hours.
- The Mission saw fresh damage from small-arms fire to two apartments in Dokuchaievsk.
- Inside the Stanytsia Luhanska disengagement area, the SMM saw ongoing dismantling works at the broken section of the bridge.
- It recorded ceasefire violations inside the Zolote disengagement area.
- The Mission saw 45 weapons in violation of withdrawal lines on both sides of the contact line, including at the former Luhansk international airport.
- It saw anti-tank mines near Luhanske and Nyzhnie Lozove, some for the first time.
- Restrictions of the SMM's freedom of movement continued, including at non-government-controlled checkpoints in Petrivske, Verkhnoшыrokiyske and Yasne.*
- In Kyiv, Kharkiv, Lviv and Zolote-1/Soniachnyi, the SMM monitored peaceful gatherings related to the latest political developments.

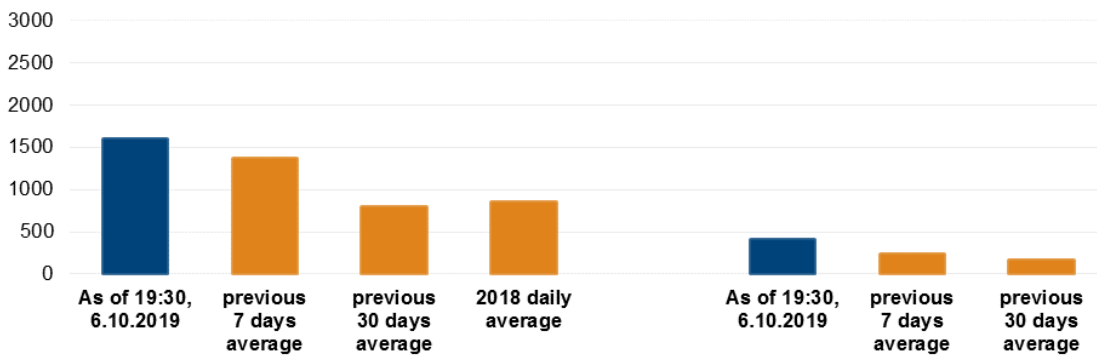
¹ Based on information from the Monitoring Teams as of 19:30, 6 October 2019. All times are in Eastern European Summer Time.

Ceasefire violations²

Number of recorded ceasefire violations³



Number of recorded explosions⁴



² For a complete breakdown of ceasefire violations, please see the annexed table.

³ Including explosions.

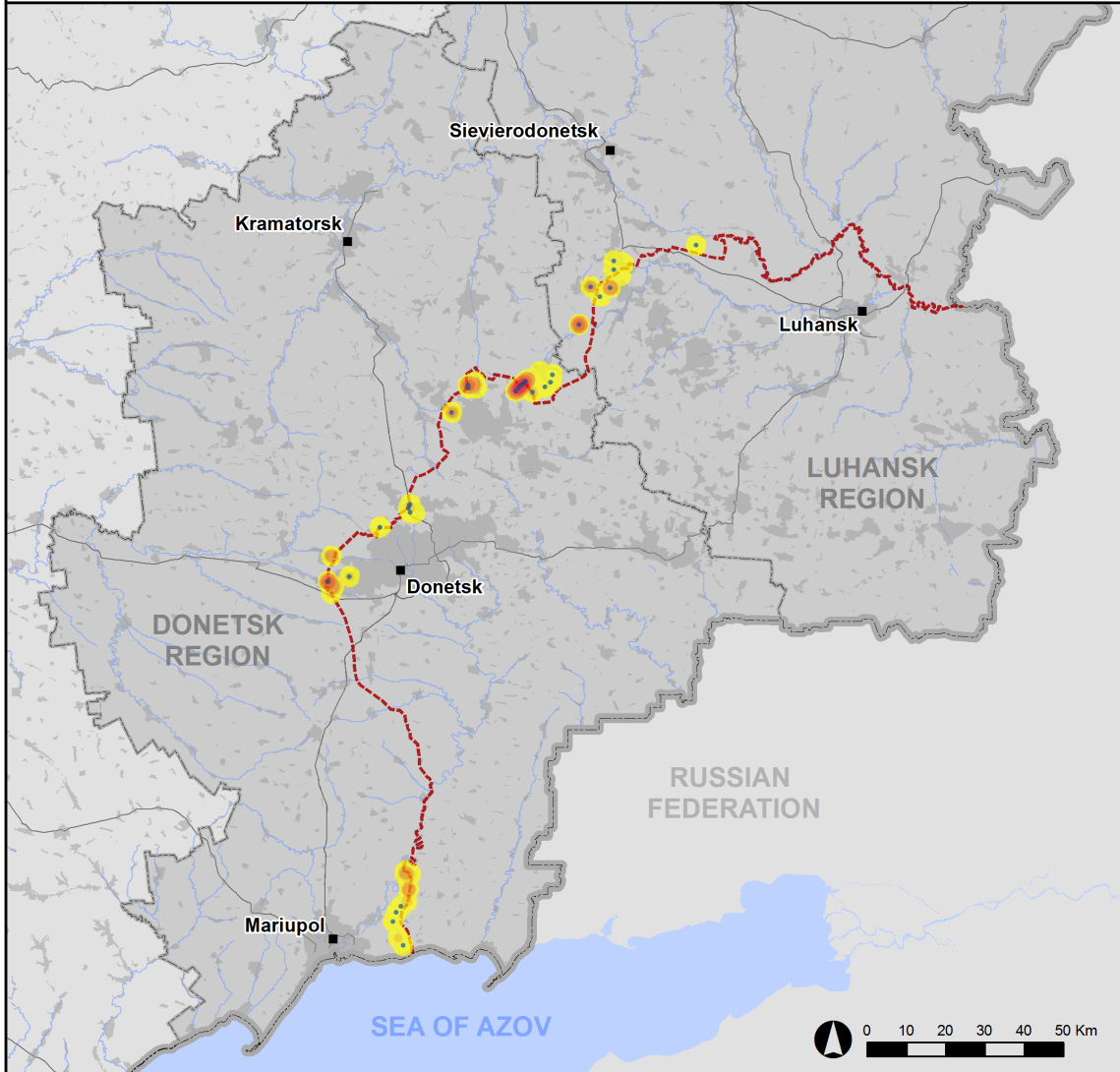
⁴ Including from unidentified weapons.

Map of recorded ceasefire violations



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

Ceasefire violations observed by the SMM 5-6 October 2019



Ceasefire violation concentration

- High
-
- Low
- 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: 07/10/2019

In Donetsk region, between the evenings of 4 and 5 October, the SMM recorded more ceasefire violations, including more explosions (about 500), compared with [the previous reporting period](#) (about 210 explosions). The majority of ceasefire violations were recorded in areas north-north-east of Marinka (government-controlled, 23km south-west of Donetsk), in areas south-west of Dokuchaievsk (non-government-controlled, 30km south-west of Donetsk) and at south-westerly and easterly directions of Svitlodarsk (government-controlled, 57km north-east of Donetsk).

Between the evenings of 5 and 6 October, the Mission recorded fewer ceasefire violations, including fewer explosions (220), compared with the previous 24 hours. Almost all ceasefire violations, including more than half of the explosions, were again recorded at south-westerly and easterly directions of Svitlodarsk, in areas north-north-east of Marinka, and in areas east-north-east and east of Maiorsk (government-controlled, 45km north-east of Donetsk).

In Luhansk region, between the evenings of 4 and 5 October, the SMM recorded more ceasefire violations, including more explosions (about 205), compared with [the previous reporting period](#) (seven explosions). The majority of the ceasefire violations were recorded in areas south-east and south of Popasna (government-controlled 69km west of Luhansk).

Between the evenings of 5 and 6 October, the Mission recorded fewer ceasefire violations, including fewer explosions (ten), compared with the previous 24 hours. The majority of ceasefire violations were recorded near and in the disengagement area close to Zolote (government-controlled, 60km west of Luhansk) (see below).

Damage from small-arms fire to two apartments in Dokuchaievsk

On 4 October, at 106 Lenina Street in Dokuchaievsk, about 2km east of the contact line, in an apartment located on the fourth floor of a five-storey residential building, the SMM saw a hole (6cm in diameter) in a west-facing balcony window and another hole (7cm in diameter) in the outer glass pane of an inside window which separates the balcony from the apartment. The Mission also saw pieces of glass on the balcony floor. It assessed the damage as fresh and caused by small-arms fire. A woman (in her seventies) who introduced herself as a resident of the apartment told the SMM that there had been shelling and shooting in the area on the night of 2-3 October, and that she, her husband and their granddaughter were inside the apartment at the time (for previous observations, see [SMM Daily Report 3 June 2019](#)).

On the same day, at 93 Tsentralna Street, about 200m east of the above-mentioned location, in an apartment located on the first floor of a five-storey residential building, the SMM saw a hole (6cm in diameter) in a west-facing window as well as a bullet (7.62mm) on the floor. It also saw pieces of glass on the window sill and the floor. The Mission assessed the damage as fresh and caused by small-arms fire. A woman (in her thirties) who introduced herself as the resident of the apartment told the SMM that she had noticed that her window was broken when she returned home on 3 October (for previous observations, see [SMM Daily Report 17 July 2019](#)).

Stanytsia Luhanska disengagement area

On 5 October, the SMM saw about 30 workers from government-controlled areas with equipment working on removing elements from the broken section of the Stanytsia Luhanska bridge (15km north-east of Luhansk) and installing poles on the road (dividing it into two lanes – one for pedestrians and one for vehicular traffic) leading to the bridge from the north.

On 6 October, the Mission saw about 25 workers from government-controlled areas demolishing concrete slabs and dismantling metal sections from the broken section of the bridge and continuing the installation of poles on the road, starting from about 250m north of the broken section of the bridge and continuing further north. The SMM also saw five workers from government-controlled areas unloading construction material from a truck and four workers continuing the construction of a bus stop (platform for passengers) about 35m north of the broken section of the bridge (for previous observations, see [SMM Daily Report 5 October 2019](#)). On the same day, five members of the State Emergency Service of Ukraine (SES) with a crane and a truck were removing wood from the eastern side of the road, about 450m north of the broken section of the bridge.

On 5 October, the Mission saw seven deminers from non-government-controlled areas and three members of the armed formations (wearing “JCCC” armbands) burning vegetation about 70m east of the Stanytsia Luhanska bridge, on the southern bank of the Siverskyi Donets river. On both days, the SMM saw up to five members of the armed formations (wearing “JCCC” armbands) between the checkpoint of the armed formations and the broken section of the bridge.

On both days, the Mission saw a regular flow of pedestrian traffic in both directions on the temporary bypass bridge. It continued to observe the operation at regular intervals of the shuttle bus and the electric cart between the entry-exit checkpoint of the Ukrainian Armed Forces and the broken section of the bridge and back.

On 4 October, an SMM mini-unmanned aerial vehicle (UAV) spotted a large hole being dug near a metal container, near the Prince Ihor monument, about 120m south of the south-eastern edge of the disengagement area (for previous observations in the area, see [SMM Daily Report 18 September 2019](#)).

Other disengagement areas⁵

On the evenings of 4 and 5 October, the SMM camera in Zolote recorded 43 projectiles in flight at an assessed range of 2-4km south (unable to assess whether inside or outside the disengagement area).

On 5 October, positioned on the southern edge of the Zolote disengagement area, the SMM heard an undetermined explosion at an assessed range of 2-4km north-west (unable to assess whether inside or outside the disengagement area). On the same day, inside the Zolote disengagement area, the SMM saw ten Ukrainian Armed Forces officers, about 300m south of the area’s northern edge.

On the evening and night of 5-6 October, the SMM camera in Zolote recorded two undetermined explosions and two projectiles in flight at an assessed range of 2-3.5km south, assessed as inside the disengagement area. The same camera also recorded an undetermined explosion at an assessed range of 500m-1km north and four projectiles in flight at an assessed range of 1-3km east, all assessed as outside the disengagement area.

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

On 6 October, positioned on the southern edge of the Zolote disengagement area, the SMM heard a shot of small-arms fire at an assessed range of 300-500m north-west, assessed as inside the disengagement area, and two undetermined explosions and 56 bursts of heavy-machine-gun fire at an assessed range of 3-5km south-west, assessed as outside the disengagement area but within its 5km periphery.

On 5 October, outside the disengagement area near Zolote, the Mission saw up to 40 Ukrainian Armed Forces officers with four excavators, near the checkpoint of the Ukrainian Armed Forces north of the disengagement area. On 6 October, the SMM saw 15 Ukrainian Armed Forces soldiers with shovels and axes as well as three excavators entering and later digging in a field south-east of the same checkpoint of the Ukrainian Armed Forces. The SMM saw a pile of wood next to the excavators. On 5 and 6 October, the Mission saw a combat engineering vehicle (BAT-2) near the checkpoint.

On 5 and 6 October, positioned about 2km north of the disengagement area near Petrivske (non-government-controlled, 41km south of Donetsk), the SMM observed a calm situation.*

On 5 October, the Mission saw for the first time a mine hazard sign (with “Danger Mines” written in Russian and English) on the western side of the road from Petrivske to Styła (non-government-controlled, 34km south of Donetsk), about 1.5km north-north-east of the northern edge of the Petrivske 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 37 weapons in violation of withdrawal lines at the former Luhansk international airport, about 2km north of Peremozhne (non-government-controlled, 19km south of Luhansk) and eight weapons in violation of withdrawal lines in government-controlled areas of Donetsk region. At the airport, it also observed 33 weapons beyond the withdrawal lines but outside storage sites (for more details, see the tables below).

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

The SMM observed military and military-type presence in the security zone in government- and non-government-controlled areas, including infantry fighting vehicles, an armoured combat vehicle, an armoured personnel carrier (some close to residential areas in government-controlled areas of Donetsk region) and an electronic warfare system (close to a residential area in government-controlled areas of Donetsk region) (for more details, see the table below).

Anti-tank mines on and near road M-03 near Luhanske and Nyzhnie Lozove

On 4 October an SMM mid-range UAV [again](#) spotted 39 anti-tank mines (TM-62) laid in four rows across road M-03 and in adjacent fields, about 5km south-east of Luhanske

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

(government-controlled, 59km north-east of Donetsk), assessed as belonging to the Ukrainian Armed Forces.

On the same day, the same UAV spotted again 63 anti-tank mines (TM-62) laid in six rows across road M-03, 40 anti-tank mines in a field east of the road, and 26 anti-tank mines in fields east and west of the same road, all about 3.5km north-west and west-north-west of Nyzhnie Lozove (non-government-controlled, 59km north-east of Donetsk) (for previous observations, see [SMM Daily Report of 12 August 2019](#) and [SMM Daily Report of 9 September 2019](#)). Near these mines, the UAV spotted for the first time 30 anti-tank mines in a ditch west of the road and another set of 30 anti-tank mines laid in three rows in a field west-south-west of the road. All these mines were assessed as belonging to the armed formations.

Border areas not under government control

On 6 October, while at a border crossing point near Uspenka (73km south-east of Donetsk) for about an hour, the SMM saw 36 cars (nine with Ukrainian and 11 with Russian Federation licence plates, and 16 with “DPR” plates) and a bus with “DPR” plates entering Ukraine. It also saw 20 cars (three with Ukrainian, 11 with Russian Federation and one with Lithuanian licence plates, and five with “DPR” plates) and five covered cargo trucks (three with Ukrainian licence plates and two with “DPR” plates) exiting Ukraine.

SMM facilitation of operation of and repair works to civilian infrastructure

On 5 and 6 October, the SMM facilitated the operation of the Donetsk Filtration Station (DFS) (15km north of Donetsk). On both days, the SMM camera near the DFS recorded ceasefire violations in close proximity to the Station (see table below).

On 6 October, the Mission also monitored the security situation in the area of the pumping station near Vasylivka (non-government-controlled, 20km north of Donetsk).

Population survey in non-government-controlled areas of Donetsk region

On 5 and 6 October, in Donetsk city (non-government-controlled) and six other settlements in non-government-controlled areas of Donetsk region, 25 civilians (mixed genders and ages) told the Mission that they had received information that a population survey was being conducted in non-government-controlled areas, with some of them having already participated in it.

SMM monitored the security situation in south-east Kherson region

On 4 and 5 October, the Mission monitored the security situation along the Sea of Azov coast in Kherson region and at the checkpoint between Chonhar (163km south-east of Kherson) and Crimea and observed a calm situation.

Peaceful gatherings in Kyiv, Kharkiv, Lviv and Zolote-1/ Soniachnyi

On 6 October, the Mission monitored four peaceful public gatherings, one at Maidan Nezalezhnosti in Kyiv, one at Svobody Square in Kharkiv, one in front of the monument to Taras Shevchenko on Svobody Avenue in Lviv and one at 8A Kvartal Soniachnyi Street in Zolote-1/Soniachnyi (government-controlled, 61km west of Luhansk). In Kyiv, it saw about

9,000 people (mixed ages and genders), some with Ukrainian flags. The Mission saw about 80 law enforcement officers present. At one point, it saw a group of people (about 4,000) marching towards the government building on Bankova Street and back. In Kharkiv, the SMM saw about 350 people (mostly men of mixed ages), some with Ukrainian flags and flags of *Svoboda*, National Corps and other groups as well as 40 law enforcement officers. In Lviv, the Mission saw about 500 people (mixed ages and gender) holding several Ukrainian flags as well as two police minibuses and eight officers of the National Guard present. In Zolote-1/Soniachnyi, the SMM saw several mini-buses and 50 men standing nearby, some with flags of *Svoboda*, National Corps and *Natsionalni Druzhyny* as well as 20 law enforcement officers. At all four gatherings, the SMM heard participants express messages critical of recent political developments concerning certain areas of Donetsk and Luhansk regions.

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

The SMM's monitoring and freedom of movement are restricted by security hazards and threats, including risks posed by mines, unexploded ordnance (UXO) and other impediments – which vary from day to day. The SMM's mandate provides for safe and secure access throughout Ukraine. All signatories of the Package of Measures have agreed on the need for this safe and secure access, that restriction of the SMM's freedom of movement constitutes a violation, and on the need for rapid response to these violations. They have also agreed that the 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 5 October 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.

Denials of access:

- On 5 and 6 October, at a checkpoint on the northern edge of Petrivske (non-government-controlled, 41km south of Donetsk), a member of the armed formations [again](#) denied the SMM passage citing “ongoing engineering and demining works” and “sniper activity” in the area, thereby restricting the SMM's access to its camera in Petrivske.
- On 5 and 6 October, 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 “ongoing demining activities”.
- On 6 October, at a checkpoint in Yasne (non-government-controlled, 30km southwest of Donetsk), two members of the armed formations denied the SMM passage citing “demining activities”.

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 5 October, two SMM mini-UAVs lost their GPS signal due to signal interference assessed as caused by probable jamming while flying near Lebedynske (government-controlled, 99km south of Donetsk) and Pavlopil (government-controlled, 84km south of Donetsk).⁷

Table of weapons

Weapons in violation of the withdrawal lines

Date	No. of weapons	Type of weapons	Location	Source of observation
Government-controlled areas				
5/10/2019	4	Self-propelled howitzer (2S1 <i>Gvozdika</i> , 122mm)	Near Bakhmut (formerly Artemivsk, 67km north of Donetsk)	Patrol
	3	Self-propelled howitzer (2S1 <i>Gvozdika</i> , 122mm)	Near Kurakhove (40km west of Donetsk)	
6/10/2019	1	Self-propelled howitzer (2S1 <i>Gvozdika</i> , 122mm)	Near Illinka (37km west of Donetsk)	
Non-government-controlled areas				
5/10/2019	8	Self-propelled howitzer (seven 2S1 <i>Gvozdika</i> , 122mm and a 2S3 <i>Akatsiya</i> , 152mm)	At the former Luhansk international airport, about 2km north of Peremozhne (19km south of Luhansk) (see also table below)	Patrol
	7	Multiple launch rocket system (BM-21 <i>Grad</i> , 122mm)		
	18	Towed howitzer (seven 2A65 <i>Msta-B</i> , 152mm and 11 D-30 <i>Lyagushka</i> , 122mm)		
	1	Towed anti-tank gun (BS-3, 100mm)		
	3	Anti-tank gun (MT-12 <i>Rapira</i> , 100mm)		

Beyond withdrawal lines but outside of designated storage sites

Date	No. of weapons	Type of weapons	Location	Source of observation
Non-government-controlled areas				
5/10/2019	4	Mortar (three 2B9 <i>Vasilek</i> , 82mm and a 2B11 <i>Sani</i> , 120mm)	At the former Luhansk international airport, about 2km north of Peremozhne (19km south of Luhansk) (see also table above)	Patrol
	7	Surface-to-air missile system (9K35 <i>Strela-10</i>)		
	22	Tank (nine T-72 and 13 T-64)		

⁷ The interference could have originated from anywhere within the radius of kilometres from the UAVs' positions.

Table of military and military-type presence in the security zone⁸

Date	No. of equipment	Type	Location	Source of observation
Government-controlled areas				
4/10/2019	2	Infantry fighting vehicle (BMP-2)	In and near Chermalyk (77km south of Donetsk)	Mini-UAV
	1	Armoured combat reconnaissance vehicle (BRM-1K)		
	1	Electronic warfare system (Plastun RP-3000)		
5/10/2019	1	Combat engineering vehicle (BAT-2)	Near the checkpoint of the Ukrainian Armed Forces north of the northern edge of the disengagement area near Zolote (60km west of Luhansk)	Patrol
	1	Infantry fighting vehicle (BMP-1)	Muratove (51km north-west of Luhansk)	
6/10/2019	1	Anti-aircraft gun (ZU-23, 23mm)	North of Shchastia (20km north of Luhansk)	
	1	Combat engineering vehicle (BAT-2)	Near the checkpoint of the Ukrainian Armed Forces north of the northern edge of the disengagement area near Zolote (60km west of Luhansk)	
Non-government-controlled areas				
4/10/2019	1	Probable armoured personnel carrier (MT-LB)	Near Nyzhnie Lozove (59km north-east of Donetsk)	Mid-range UAV

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 6 October 2019⁹

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera in Berezove (government-controlled, 31km SW of Donetsk)	2-4km ESE	Recorded	2	Projectile	SW to NE	N/K	4-Oct, 19:54
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	2-4km SE	Recorded	3	Projectile	NE to SW	N/K	4-Oct, 19:53
	3-7km S	Recorded	1	Projectile	WSW to ENE	N/K	4-Oct, 21:44
	3-7km S	Recorded	1	Explosion	Undetermined	N/K	4-Oct, 21:44
	3-7km SE	Recorded	5	Projectile	ENE to WSW	N/K	4-Oct, 23:47
	3-7km SE	Recorded	5	Projectile	ENE to WSW	N/K	5-Oct, 00:02
	3-7km SE	Recorded	4	Projectile	ENE to WSW	N/K	5-Oct, 01:04
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	1-2km SSE	Recorded	1	Explosion	Undetermined	N/K	4-Oct, 21:40
	200-500m SW	Recorded	1	Explosion	Undetermined	N/K	4-Oct, 21:40
	500-700m SSW	Recorded	1	Explosion	Undetermined	N/K	4-Oct, 21:41
	200-700m SW	Recorded	4	Explosion	Undetermined	N/K	5-Oct, 01:13
	200-700m SW	Recorded	5	Explosion	Undetermined	N/K	5-Oct, 01:46
	200-700m SW	Recorded	1	Projectile	NW to SE	N/K	5-Oct, 03:10
	200-700m SSW	Recorded	2	Explosion	Undetermined	N/K	5-Oct, 03:10
	200-700m S	Recorded	2	Explosion	Undetermined	N/K	5-Oct, 03:29
	200-700m SW	Recorded	6	Explosion	Undetermined	N/K	5-Oct, 03:30
	200-700m SE	Recorded	3	Explosion	Undetermined	N/K	5-Oct, 03:30
200-700m SW	Recorded	3	Explosion	Undetermined	N/K	5-Oct, 03:31	
SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk)	3-5km E	Recorded	1	Explosion	Undetermined	N/K	4-Oct, 22:35
	3-5km ENE	Recorded	1	Projectile	NW to SE	N/K	4-Oct, 22:37
	3-5km E	Recorded	1	Explosion	Undetermined	N/K	5-Oct, 02:37
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	1-3km ENE	Recorded	2	Projectile	N to S	N/K	4-Oct, 19:09
	1-3km ESE	Recorded	1	Explosion	Undetermined	N/K	4-Oct, 19:10
	3-5km ENE	Recorded	1	Projectile	N to S	N/K	4-Oct, 19:23
SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)	1-3km NNE	Recorded	1	Projectile	W to E	N/K	4-Oct, 19:00
	1-3km NNE	Recorded	2	Projectile	W to E	N/K	4-Oct, 19:01
	1-3km NNE	Recorded	11	Projectile	W to E	N/K	4-Oct, 19:03
	1-3km NNE	Recorded	1	Projectile	W to E	N/K	4-Oct, 19:04
	1-3km NNE	Recorded	12	Projectile	W to E	N/K	4-Oct, 19:10
	1-3km NNE	Recorded	9	Projectile	W to E	N/K	4-Oct, 19:11
	1-3km NNE	Recorded	3	Projectile	W to E	N/K	4-Oct, 19:22
	1-3km NNE	Recorded	3	Projectile	W to E	N/K	4-Oct, 19:23
	1-3km NNE	Recorded	8	Projectile	W to E	N/K	4-Oct, 19:24
	1-3km NNE	Recorded	2	Projectile	W to E	N/K	4-Oct, 19:25
	1-3km NNE	Recorded	1	Projectile	W to E	N/K	4-Oct, 19:27
	2-5km NNE	Recorded	22	Projectile	W to E	N/K	4-Oct, 20:03
	2-5km NNE	Recorded	60	Projectile	W to E	N/K	4-Oct, 20:04
	2-5km NNE	Recorded	1	Explosion	Undetermined	N/K	4-Oct, 20:04

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.

	2-5km NNE	Recorded	67	Projectile	W to E	N/K	4-Oct, 20:05
	2-5km NNE	Recorded	2	Explosion	Undetermined	N/K	4-Oct, 20:05
	2-5km NNE	Recorded	85	Projectile	W to E	N/K	4-Oct, 20:06
	2-5km NNE	Recorded	2	Explosion	Undetermined	N/K	4-Oct, 20:06
	2-5km NNE	Recorded	59	Projectile	W to E	N/K	4-Oct, 20:07
	2-5km NNE	Recorded	3	Explosion	Undetermined	N/K	4-Oct, 20:07
	2-5km NNE	Recorded	38	Projectile	W to E	N/K	4-Oct, 20:08
	2-5km NNE	Recorded	2	Explosion	Undetermined	N/K	4-Oct, 20:08
	2-5km NNE	Recorded	31	Projectile	W to E	N/K	4-Oct, 20:09
	2-5km NNE	Recorded	1	Explosion	Undetermined	N/K	4-Oct, 20:09
	2-5km NNE	Recorded	37	Projectile	W to E	N/K	4-Oct, 20:10
	2-5km NNE	Recorded	48	Projectile	W to E	N/K	4-Oct, 20:11
	2-5km NNE	Recorded	3	Explosion	Undetermined	N/K	4-Oct, 20:11
	2-5km NNE	Recorded	42	Projectile	W to E	N/K	4-Oct, 20:12
	2-5km NNE	Recorded	2	Explosion	Undetermined	N/K	4-Oct, 20:12
	2-5km NNE	Recorded	1	Explosion	Undetermined	N/K	4-Oct, 20:13
	2-5km NNE	Recorded	50	Projectile	W to E	N/K	4-Oct, 20:13
	2-5km NNE	Recorded	44	Projectile	W to E	N/K	4-Oct, 20:14
	2-5km NNE	Recorded	2	Explosion	Undetermined	N/K	4-Oct, 20:15
	2-5km NNE	Recorded	29	Projectile	W to E	N/K	4-Oct, 20:15
	2-5km NNE	Recorded	10	Projectile	W to E	N/K	4-Oct, 20:16
	2-5km NNE	Recorded	49	Projectile	W to E	N/K	4-Oct, 20:17
	2-5km NNE	Recorded	1	Explosion	Undetermined	N/K	4-Oct, 20:17
	2-5km NNE	Recorded	61	Projectile	W to E	N/K	4-Oct, 20:18
	2-5km NNE	Recorded	2	Explosion	Undetermined	N/K	4-Oct, 20:18
	2-5km NNE	Recorded	95	Projectile	W to E	N/K	4-Oct, 20:19
	2-5km N	Recorded	1	Explosion	Undetermined	N/K	4-Oct, 20:19
	2-5km NNE	Recorded	58	Projectile	W to E	N/K	4-Oct, 20:20
	2-5km NNE	Recorded	3	Explosion	Undetermined	N/K	4-Oct, 20:20
	2-5km NNE	Recorded	4	Explosion	Undetermined	N/K	4-Oct, 20:21
	2-5km NNE	Recorded	71	Projectile	W to E	N/K	4-Oct, 20:21
	2-5km NNE	Recorded	1	Explosion	Undetermined	N/K	4-Oct, 20:46
	2-5km NNE	Recorded	3	Projectile	W to E	N/K	4-Oct, 20:46
	2-5km NNE	Recorded	9	Projectile	W to E	N/K	4-Oct, 20:47
	2-5km NNE	Recorded	5	Projectile	W to E	N/K	4-Oct, 20:50
	2-5km NNE	Recorded	1	Projectile	W to E	N/K	4-Oct, 20:51
	2-5km NNE	Recorded	2	Projectile	W to E	N/K	4-Oct, 20:52
	2-5km NNE	Recorded	34	Projectile	W to E	N/K	4-Oct, 20:58
	2-5km NNE	Recorded	4	Projectile	W to E	N/K	4-Oct, 21:03
	2-5km NNE	Recorded	1	Projectile	W to E	N/K	4-Oct, 21:11
SMM camera at entry-exit checkpoint in Pyshevyk (government-controlled, 84km S of Donetsk)	3-5km S	Recorded	5	Projectile	In vertical flight	N/K	4-Oct, 19:13
	3-5km S	Recorded	3	Projectile	In vertical flight	N/K	4-Oct, 19:20
	3-5km SSE	Recorded	4	Projectile	W to E	N/K	4-Oct, 20:19
	3-5km S	Recorded	9	Projectile	W to E	N/K	4-Oct, 21:14
	3-5km S	Recorded	1	Projectile	E to W	N/K	4-Oct, 21:15
	3-5km S	Recorded	3	Projectile	W to E	N/K	4-Oct, 21:15
	3-5km S	Recorded	4	Projectile	N to S	N/K	4-Oct, 21:16
	3-5km S	Recorded	11	Projectile	W to E	N/K	4-Oct, 21:16
	3-5km S	Recorded	3	Projectile	NE to SW	N/K	4-Oct, 21:17
	3-5km S	Recorded	1	Projectile	W to E	N/K	4-Oct, 21:17
	3-5km SSE	Recorded	15	Projectile	W to E	N/K	4-Oct, 21:23
	3-5km SSE	Recorded	1	Explosion	Airburst	N/K	4-Oct, 21:44
	3-5km SSE	Recorded	3	Projectile	W to E	N/K	4-Oct, 21:45
	3-5km SSE	Recorded	12	Projectile	E to W	N/K	4-Oct, 22:06
	3-5km SSE	Recorded	6	Projectile	W to E	N/K	4-Oct, 22:08
	3-5km SSE	Recorded	6	Projectile	E to W	N/K	4-Oct, 22:09
	3-5km S	Recorded	2	Projectile	W to E	N/K	4-Oct, 22:09

	3-5km SSE	Recorded	10	Projectile	W to E	N/K	4-Oct, 22:15
	3-5km SSE	Recorded	16	Projectile	W to E	N/K	4-Oct, 22:16
	3-5km SSE	Recorded	2	Projectile	WNW to ESE	N/K	4-Oct, 22:34
	3-5km SSE	Recorded	2	Explosion	Undetermined	N/K	4-Oct, 22:35
	3-5km SSE	Recorded	2	Projectile	WNW to ESE	N/K	4-Oct, 22:36
	3-5km SSE	Recorded	1	Explosion	Undetermined	N/K	4-Oct, 22:36
	3-5km SSE	Recorded	1	Projectile	SSE to NNW	N/K	4-Oct, 22:37
	3-5km SSE	Recorded	2	Explosion	Undetermined	N/K	4-Oct, 22:37
	3-5km SSE	Recorded	8	Projectile	E to W	N/K	4-Oct, 22:45
	3-5km SSE	Recorded	8	Projectile	E to W	N/K	4-Oct, 22:45
	3-5km SSE	Recorded	1	Explosion	Undetermined	N/K	4-Oct, 22:46
	3-5km SSE	Recorded	5	Projectile	WNW to ESE	N/K	4-Oct, 22:52
	3-5km SSE	Recorded	5	Projectile	WNW to ESE	N/K	4-Oct, 22:52
	3-5km SSE	Recorded	2	Projectile	W to E	N/K	4-Oct, 22:53
	3-5km SSE	Recorded	2	Projectile	W to E	N/K	4-Oct, 22:53
	3-5km SSE	Recorded	7	Projectile	W to E	N/K	4-Oct, 23:08
	3-5km SSE	Recorded	1	Projectile	W to E	N/K	4-Oct, 23:11
	3-5km SSE	Recorded	5	Projectile	N to S	N/K	4-Oct, 23:21
	3-5km SSE	Recorded	2	Explosion	Undetermined	N/K	4-Oct, 23:53
SMM camera in Svitlodarsk (government-controlled, 57km NE of Donetsk)	4-6km ENE	Recorded	1	Projectile	N to S	N/K	4-Oct, 19:45
	4-6km E	Recorded	1	Projectile	N to S	N/K	4-Oct, 19:51
	4-6km ESE	Recorded	1	Burst	S to N	N/K	4-Oct, 19:52
	4-6km ESE	Recorded	1	Projectile	S to N	N/K	4-Oct, 19:54
	4-6km ESE	Recorded	3	Projectile	S to N	N/K	4-Oct, 19:57
	4-6km ESE	Recorded	1	Explosion	Airburst	N/K	5-Oct, 18:14
	4-6km E	Recorded	1	Explosion	Undetermined	N/K	5-Oct, 18:15
	4-6km ESE	Recorded	1	Explosion	Undetermined	N/K	5-Oct, 18:15
SW part of Avdiivka (government-controlled, 17km N of Donetsk)	1km SE	Heard	8	Burst		Small arms	5-Oct, 12:50
	1km SE	Heard	10	Shot		Small arms	5-Oct, 12:56
	2-4km ESE	Heard	2	Explosion	Undetermined	N/K	5-Oct, 13:54
	2-4km ESE	Heard	2	Explosion	Undetermined	N/K	5-Oct, 14:00
	2-4km ESE	Heard	2	Explosion	Undetermined	N/K	5-Oct, 14:30
About 3km SE of Donetsk city centre (non-government-controlled)	2-3km SE	Heard	1	Explosion	Undetermined	N/K	5-Oct, 08:56
	3-4km NW	Heard	1	Explosion	Undetermined	N/K	5-Oct, 10:35
Donetsk central railway station (non-government-controlled, 6km NW of Donetsk)	1-2km W	Heard	1	Explosion	Undetermined	N/K	5-Oct, 10:31
Dokuchaievsk (non-government-controlled, 30km SW of Donetsk)	2km SW	Heard		Shot	Uncountable, overlapping	Small arms	5-Oct, 09:56-10:01
	2km SW	Heard		Shot	Uncountable, overlapping	HMG	5-Oct, 09:56-10:01
	2km SW	Heard	217	Shot		Small arms	5-Oct, 10:03-10:11
	2km SW	Heard	83	Shot		HMG	5-Oct, 10:03-10:11
	2km SW	Heard	252	Shot		Small arms	5-Oct, 10:15-10:28
	2km SW	Heard	108	Shot		HMG	5-Oct, 10:15-10:28
	2km SW	Heard	2	Explosion	Undetermined	N/K	5-Oct, 10:15-10:28
About 2km N of Petrivske (non-government-	3-4km N	Heard	1	Explosion	Undetermined	N/K	5-Oct, 11:59

controlled, 41km S of Donetsk)							
Styla (non-government-controlled, 34km S of Donetsk)	1-2km NE	Heard	11	Explosion	Undetermined	N/K	5-Oct, 11:35-11:45
About 1km NW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	4-5km SW	Heard	1	Explosion	Undetermined	N/K	5-Oct, 10:32
	4-5km SW	Heard	1	Explosion	Undetermined	N/K	5-Oct, 11:10
	4-5km SW	Heard	1	Explosion	Undetermined	N/K	5-Oct, 14:00
	3-4km SW	Heard	2	Explosion	Undetermined	N/K	5-Oct, 14:04
	2-3km SW	Heard	7	Shot		Small arms	5-Oct, 14:20
Orlivske (government-controlled, 82km S of Donetsk)	2-3km SSE	Heard	4	Shot		Cannon 30mm	5-Oct, 11:50
	3-4km SSE	Heard	1	Explosion	Undetermined	N/K	5-Oct, 12:25
E part of Chermalyk (government-controlled, 77km S of Donetsk)	5km SSE	Heard	1	Explosion	Undetermined	N/K	5-Oct, 11:34
	2-3km S	Heard	2	Shot		Cannon (30mm)	5-Oct, 11:46
	2-3km S	Heard	5	Shot		Cannon (30mm)	5-Oct, 11:49
About 2km NE of Chernenko (government-controlled, 86km S of Donetsk)	5-7km SSE	Heard	12	Explosion	Undetermined	N/K	5-Oct, 09:28-09:30
NE part of Lebedynske (government-controlled, 99km S of Donetsk)	3-4km NNE	Heard	101	Explosion	Undetermined	N/K	5-Oct, 09:57-10:05
	3-4km NNE	Heard		Burst	Uncountable, overlapping	Small arms	5-Oct, 09:57-10:05
Pavlopil (government-controlled, 84km S of Donetsk)	3-4km NNE	Heard	1	Explosion	Undetermined	N/K	5-Oct, 12:27
	3-4km SSE	Heard	4	Explosion	Undetermined	N/K	5-Oct, 12:27
Horlivka (non-government-controlled, 39km NE of Donetsk)	4-6km SSW	Heard	3	Burst		HMG	4-Oct, 20:20
	4-6km SSW	Heard	3	Explosion	Undetermined	N/K	4-Oct, 20:20
	4-6km SSW	Heard	3	Explosion	Undetermined	N/K	4-Oct, 20:23
	4-6km SSW	Heard	2	Explosion	Undetermined	N/K	4-Oct, 20:24
	4-6km SSW	Heard	1	Explosion	Undetermined	N/K	4-Oct, 20:25
	4-6km SSW	Heard	4	Explosion	Undetermined	N/K	4-Oct, 20:27
	4-6km SSW	Heard	3	Explosion	Undetermined	N/K	4-Oct, 20:28-20:29
	3-4km W	Heard	12	Burst		HMG	4-Oct, 20:31
	4-6km SSW	Heard	4	Explosion	Undetermined	N/K	4-Oct, 20:31-20:34
	4-6km SSW	Heard	3	Explosion	Undetermined	N/K	4-Oct, 20:40-20:41
	4-6km SSW	Heard	3	Burst		HMG	4-Oct, 20:45
	4-6km SSW	Heard	3	Explosion	Undetermined	N/K	4-Oct, 20:48
	4-6km SSW	Heard	2	Explosion	Undetermined	N/K	4-Oct, 20:50
	4-6km SSW	Heard	2	Explosion	Undetermined	N/K	4-Oct, 21:41
	4-6km SSW	Heard	2	Burst		HMG	4-Oct, 21:45
	4-6km SSW	Heard	2	Burst		HMG	4-Oct, 21:59
	4-6km SSW	Heard	5	Explosion	Undetermined	N/K	4-Oct, 22:00
	4-6km SSW	Heard	3	Burst		HMG	4-Oct, 22:34
	4-6km SSW	Heard	5	Burst		HMG	4-Oct, 23:00
4-6km SSW	Heard	3	Explosion	Undetermined	N/K	4-Oct, 23:00	
Svitlodarsk (government-controlled, 57km NE of Donetsk)	3-5km SW	Heard	7	Shot		Small arms	4-Oct, 18:31
	5-7km SSW	Heard	2	Explosion	Undetermined	N/K	4-Oct, 18:34
	5-7km SSW	Heard	5	Burst		HMG	4-Oct, 18:37

5-7km SSW	Heard	2	Explosion	Undetermined	N/K	4-Oct, 18:47
5-7km SSW	Heard	1	Burst		HMG	4-Oct, 18:52
3-5km SW	Heard	1	Explosion	Undetermined	N/K	4-Oct, 19:20
3-5km SSW	Heard	7	Burst		HMG	4-Oct, 19:34
5-7km SSW	Heard	2	Explosion	Undetermined	N/K	4-Oct, 19:52
3-5km SSW	Heard	1	Explosion	Undetermined	N/K	4-Oct, 20:14
3-5km SSW	Heard	6	Shot		Small arms	4-Oct, 20:23
3-5km SSW	Heard	6	Explosion	Undetermined	N/K	4-Oct, 20:42-20:47
5-7km SW	Heard	1	Explosion	Undetermined	N/K	4-Oct, 21:15
3-5km SW	Heard	4	Explosion	Undetermined	N/K	4-Oct, 21:23
3-5km SW	Heard	4	Burst		HMG	4-Oct, 21:23
3-5km SW	Heard	6	Burst		HMG	4-Oct, 21:28
3-5km SSW	Heard	5	Explosion	Undetermined	N/K	4-Oct, 21:30
3-5km SSW	Heard	6	Burst		Small arms	4-Oct, 21:32
3-5km SSW	Heard	4	Explosion	Undetermined	N/K	4-Oct, 21:32
3-5km SW	Heard	8	Shot		Small arms	4-Oct, 21:35
3-5km SSW	Heard	2	Explosion	Undetermined	N/K	4-Oct, 21:37
3-5km SSW	Heard	9	Burst		HMG	4-Oct, 21:38-21:43
3-5km SSW	Heard	4	Explosion	Undetermined	N/K	4-Oct, 21:36-21:40
3-5km SSW	Heard	1	Explosion	Undetermined	N/K	4-Oct, 21:45
3-5km SW	Heard	3	Explosion	Undetermined	N/K	4-Oct, 21:50-21:53
3-5km SW	Heard	1	Burst		HMG	4-Oct, 21:51
3-5km SSW	Heard	4	Explosion	Undetermined	N/K	4-Oct, 21:59-22:04
1-3km SW	Heard	6	Explosion	Undetermined	N/K	4-Oct, 22:03-22:05
1-3km SW	Heard	2	Explosion	Undetermined	N/K	4-Oct, 22:13
3-5km SW	Heard	4	Shot		Small arms	4-Oct, 23:04
3-5km SSW	Heard	4	Burst		HMG	4-Oct, 23:24
3-5km SW	Heard	4	Burst		HMG	4-Oct, 23:48
3-5km SW	Heard	1	Explosion	Undetermined	N/K	5-Oct, 11:32
5-8km SW	Heard	2	Explosion	Undetermined	N/K	5-Oct, 13:20-13:25
5-8km SW	Heard	1	Explosion	Undetermined	N/K	5-Oct, 13:45
3-5km SW	Heard	2	Explosion	Undetermined	N/K	5-Oct, 16:47
3-5km SW	Heard	4	Explosion	Undetermined	N/K	5-Oct, 16:55-16:57
3-5km SW	Heard	10	Shot		Small arms	5-Oct, 17:00
3-5km SW	Heard	4	Burst		HMG	5-Oct, 17:00
3-5km SW	Heard	1	Explosion	Undetermined	N/K	5-Oct, 17:00
3-5km SW	Heard	5	Explosion	Undetermined	N/K	5-Oct, 17:06-17:08
3-5km SW	Heard	6	Burst		HMG	5-Oct, 17:06-17:08
3-5km SW	Heard	12	Explosion	Undetermined	N/K	5-Oct, 17:12-17:18
3-5km SW	Heard	7	Burst		HMG	5-Oct, 17:12-17:17
3-5km SW	Heard	2	Explosion	Undetermined	N/K	5-Oct, 17:21
3-5km SW	Heard	15	Explosion	Undetermined	N/K	5-Oct, 17:27-17:35
3-5km SW	Heard	19	Shot		Small	5-Oct,

						arms	17:27-17:35
	3-5km SW	Heard	5	Burst		HMG	5-Oct, 17:27-17:35
	3-5km SW	Heard	4	Explosion	Undetermined	N/K	5-Oct, 17:38-17:41
	3-5km SW	Heard	8	Shot		Small arms	5-Oct, 17:38-17:41
	3-5km SW	Heard	2	Burst		HMG	5-Oct, 17:38-17:41
	3-5km SSW	Heard	19	Explosion	Undetermined	N/K	5-Oct, 17:48-18:00
	3-5km SSW	Heard	32	Burst		HMG	5-Oct, 17:48-18:00
	3-5km SSW	Heard	2	Shot		N/K	5-Oct, 17:48-18:00
	3-5km SSW	Heard	13	Explosion	Undetermined	N/K	5-Oct, 18:02-18:15
	3-5km SSW	Heard	13	Shot		Small arms	5-Oct, 18:02-18:15
	3-5km SSW	Heard	3	Burst		HMG	5-Oct, 18:10-18:15
	3-5km SSW	Heard	3	Explosion		N/K	5-Oct, 18:16-18:20
	3-5km SSW	Heard	6	Shot		Small arms	5-Oct, 18:16-18:20
	3-5km SSW	Heard	4	Explosion	Undetermined	N/K	5-Oct, 18:21-18:29
	3-5km SSW	Heard	10	Burst		HMG	5-Oct, 18:21-18:29
	3-5km SSW	Heard	8	Shot		Small arms	5-Oct, 18:21-18:29
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	2-3km SE	Heard	2	Explosion	Undetermined	N/K	5-Oct, 08:55
About 1km SSE of Nelipivka (government-controlled, 50km N of Donetsk)	5-7km ESE	Heard	12	Burst		HMG	5-Oct, 12:56-12:59
	5-7km ESE	Heard	44	Explosion	Undetermined	N/K	5-Oct, 12:56-12:59
	5-7km ESE	Heard	20	Burst		HMG	5-Oct, 13:00-13:04
	5-7km ESE	Heard	30	Explosion	Undetermined	N/K	5-Oct, 13:00-13:04
	5-7km ESE	Heard	19	Explosion	Undetermined	N/K	5-Oct, 13:05-13:11
SMM camera in Zolote (government-controlled, 60km W of Luhansk)	2-4km S	Recorded	11	Projectile	In vertical flight (unable to assess whether inside or outside the disengagement area)	N/K	4-Oct, 19:17
	2-4km S	Recorded	30	Projectile	In vertical flight (unable to assess whether inside or outside the disengagement area)	N/K	4-Oct, 19:18
	2-4km S	Recorded	1	Projectile	NW to SE (unable to assess whether inside or	N/K	4-Oct, 19:19

					outside the disengagement area)		
	2-4km S	Recorded	1	Projectile	W to E (unable to assess whether inside or outside the disengagement area)	N/K	5-Oct, 21:59
3km N of Pervomaisk (non-government-controlled, 58km W of Luhansk)	2-4km NW	Heard	1	Explosion	Undetermined (assessed as outside the Zolote disengagement area)	N/K	5-Oct, 11:13
2km NE of Stepanivka (non-government-controlled, 62km W of Luhansk)	15-20km SW	Heard	20	Explosion	Undetermined	N/K	5-Oct, 12:55-13:05
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	3-5km SSE	Recorded	1	Projectile	WSW to ENE	N/K	5-Oct, 19:20
	3-5km SSE	Recorded	9	Projectile	WSW to ENE	N/K	5-Oct, 19:23
	2-4km S	Recorded	1	Projectile	WNW to ESE	N/K	5-Oct, 20:22
	3-5km S	Recorded	1	Projectile	WNW to ESE	N/K	5-Oct, 20:31
	2-4km S	Recorded	7	Projectile	WNW to ESE	N/K	5-Oct, 21:00
	2-4km S	Recorded	3	Projectile	WNW to ESE	N/K	5-Oct, 21:01
	2-4km S	Recorded	9	Projectile	WNW to ESE	N/K	5-Oct, 21:02
	3-5km S	Recorded	10	Projectile	WNW to ESE	N/K	5-Oct, 21:04
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	2-3km S	Recorded	1	Explosion	Undetermined	N/K	5-Oct, 21:25
	200-800m S	Recorded	1	Projectile	NW to SE	N/K	5-Oct, 21:43
	300-800m SSW	Recorded	1	Explosion	Undetermined	N/K	5-Oct, 22:11
	0.3-1km SSW	Recorded	2	Explosion	Undetermined	N/K	5-Oct, 22:15
	200-800m SSW	Recorded	1	Projectile	NW to SE	N/K	5-Oct, 22:18
	200-800m SSW	Recorded	1	Explosion	Undetermined	N/K	5-Oct, 22:18
	0.3-1km SSW	Recorded	2	Explosion	Undetermined	N/K	5-Oct, 23:44
	1-2km SSW	Recorded	1	Explosion	Undetermined	N/K	6-Oct, 01:04
	1-2km SSW	Recorded	4	Projectile	W to E	N/K	6-Oct, 01:04
SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk)	3-5km ENE	Recorded	9	Projectile	N to S	N/K	5-Oct, 19:16
	3-5km ENE	Recorded	3	Projectile	N to S	N/K	5-Oct, 19:17
	3-5km ENE	Recorded	10	Projectile	N to S	N/K	5-Oct, 19:17
	3-5km ENE	Recorded	2	Projectile	N to S	N/K	5-Oct, 19:18
	3-5km ENE	Recorded	1	Projectile	N to S	N/K	5-Oct, 19:18
	3-5km ENE	Recorded	2	Projectile	N to S	N/K	5-Oct, 19:19
	3-5km ENE	Recorded	1	Projectile	NW to SE	N/K	5-Oct, 19:20
	3-5km ENE	Recorded	11	Projectile	NNW to SSE	N/K	5-Oct, 19:23
SMM camera E of Lomakyne (government-controlled, 90km S of Donetsk)	4-6km NE	Recorded	1	Explosion	Undetermined	N/K	5-Oct, 18:56
	2-4km ENE	Recorded	1	Explosion	Undetermined	N/K	6-Oct, 18:02
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	1-3km ENE	Recorded	18	Projectile	NNW to SSE	N/K	5-Oct, 21:23
	1-3km ENE	Recorded	6	Projectile	NNW to SSE	N/K	5-Oct, 21:24
	1-3km E	Recorded	3	Projectile	NNW to SSE	N/K	5-Oct, 21:28
	1-3km ENE	Recorded	1	Explosion	Undetermined	N/K	5-Oct, 21:28
	1-3km ENE	Recorded	6	Projectile	NNW to SSE	N/K	5-Oct, 21:28
	1-3km ENE	Recorded	5	Projectile	NNW to SSE	N/K	5-Oct, 21:31
	1-3km E	Recorded	1	Explosion	Undetermined	N/K	5-Oct, 21:31
	1-3km ENE	Recorded	1	Projectile	NW to SE	N/K	5-Oct, 21:45
	1-3km E	Recorded	1	Projectile	SW to NE	N/K	5-Oct, 21:48
	1-3km ENE	Recorded	18	Projectile	NNW to SSE	N/K	5-Oct, 21:55
	1-3km ENE	Recorded	2	Projectile	NNW to SSE	N/K	5-Oct, 22:01

	1-3km ENE	Recorded	8	Projectile	NNW to SSE	N/K	5-Oct, 22:02
	1-3km ENE	Recorded	3	Projectile	NNW to SSE	N/K	5-Oct, 22:05
	1-3km ENE	Recorded	3	Projectile	NNW to SSE	N/K	5-Oct, 22:06
	1-3km ENE	Recorded	1	Explosion	Undetermined	N/K	5-Oct, 22:35
	1-3km ENE	Recorded	18	Projectile	NW to SE	N/K	5-Oct, 22:43
	1-3km ENE	Recorded	10	Projectile	NNW to SSE	N/K	5-Oct, 22:47
	1-3km ENE	Recorded	8	Projectile	NNW to SSE	N/K	5-Oct, 22:49
	1-3km ENE	Recorded	14	Projectile	NNW to SSE	N/K	5-Oct, 22:52
	2-4km E	Recorded	5	Projectile	SSW to NNE	N/K	5-Oct, 23:21
	2-4km E	Recorded	1	Illumination flare	In vertical flight	N/K	5-Oct, 23:51
	2-4km ENE	Recorded	8	Projectile	NNW to SSE	N/K	5-Oct, 23:53
	3-5km E	Recorded	2	Projectile	S to N	N/K	5-Oct, 23:56
	3-5km E	Recorded	6	Projectile	S to N	N/K	5-Oct, 23:57
	3-5km ENE	Recorded	1	Illumination flare	In vertical flight	N/K	5-Oct, 23:59
	3-5km ENE	Recorded	1	Illumination flare	In vertical flight	N/K	6-Oct, 00:03
	3-5km E	Recorded	1	Illumination flare	In vertical flight	N/K	6-Oct, 00:05
	3-5km ENE	Recorded	14	Projectile	NNW to SSE	N/K	6-Oct, 00:07
	2-4km E	Recorded	2	Projectile	S to N	N/K	6-Oct, 00:08
	2-4km E	Recorded	1	Illumination flare	In vertical flight	N/K	6-Oct, 00:10
	3-5km E	Recorded	1	Illumination flare	In vertical flight	N/K	6-Oct, 00:47
SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)	2-4km NNE	Recorded	3	Projectile	SW to NE	N/K	5-Oct, 20:40
	2-4km NNE	Recorded	1	Explosion	Impact	N/K	5-Oct, 20:41
	2-4km NNE	Recorded	3	Projectile	W to E	N/K	5-Oct, 20:42
	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	5-Oct, 22:06
	2-4km NNE	Recorded	9	Projectile	SW to NE	N/K	5-Oct, 22:07
	2-4km NNE	Recorded	2	Explosion	Undetermined	N/K	5-Oct, 22:08
	2-4km NNE	Recorded	3	Projectile	W to E	N/K	5-Oct, 22:10
	2-4km NNE	Recorded	9	Projectile	W to E	N/K	5-Oct, 22:11
	2-4km NNE	Recorded	25	Projectile	W to E	N/K	5-Oct, 22:12
	2-4km NNE	Recorded	21	Projectile	W to E	N/K	5-Oct, 22:13
	2-4km NNE	Recorded	14	Projectile	W to E	N/K	5-Oct, 22:14
	2-4km NNE	Recorded	28	Projectile	W to E	N/K	5-Oct, 22:15
	2-4km NNE	Recorded	1	Projectile	E to W	N/K	5-Oct, 22:18
	2-4km NNE	Recorded	1	Projectile	W to E	N/K	5-Oct, 22:21
	2-4km NNE	Recorded	12	Projectile	W to E	N/K	5-Oct, 22:27
	2-4km NNE	Recorded	17	Projectile	W to E	N/K	5-Oct, 22:29
	2-4km NNE	Recorded	12	Projectile	W to E	N/K	5-Oct, 22:30
SMM camera at entry-exit checkpoint in Pyshevyk (government-controlled, 84km S of Donetsk)	4-6km S	Recorded	1	Explosion	Airburst	N/K	5-Oct, 18:39
	3-5km SSE	Recorded	1	Projectile	E to W	N/K	6-Oct, 02:28
	3-5km SSE	Recorded	1	Projectile	W to E	N/K	6-Oct, 02:37
	3-5km SSE	Recorded	6	Projectile	W to E	N/K	6-Oct, 02:41
	3-5km SSE	Recorded	5	Projectile	NW to SE	N/K	6-Oct, 02:41
SMM camera 1km SW of Shyrokyne (100km S of Donetsk)	2-4km N	Recorded	1	Explosion	Undetermined	N/K	5-Oct, 18:41
SMM camera in Svitlodarsk (government-controlled, 57km NE of Donetsk)	4-6km ESE	Recorded	1	Explosion	Airburst	N/K	5-Oct, 18:14
	4-6km E	Recorded	1	Explosion	Undetermined	N/K	5-Oct, 18:15
	4-6km ESE	Recorded	1	Explosion	Undetermined	N/K	5-Oct, 18:15
	1-3km ENE	Recorded	1	Projectile	NW to SE	N/K	5-Oct, 21:31
	1-3km ENE	Recorded	1	Projectile	NW to SE	N/K	5-Oct, 21:32
About 13km SW of Donetsk city centre	5-6km WNW	Heard	10	Explosion	Undetermined	N/K	6-Oct, 11:20

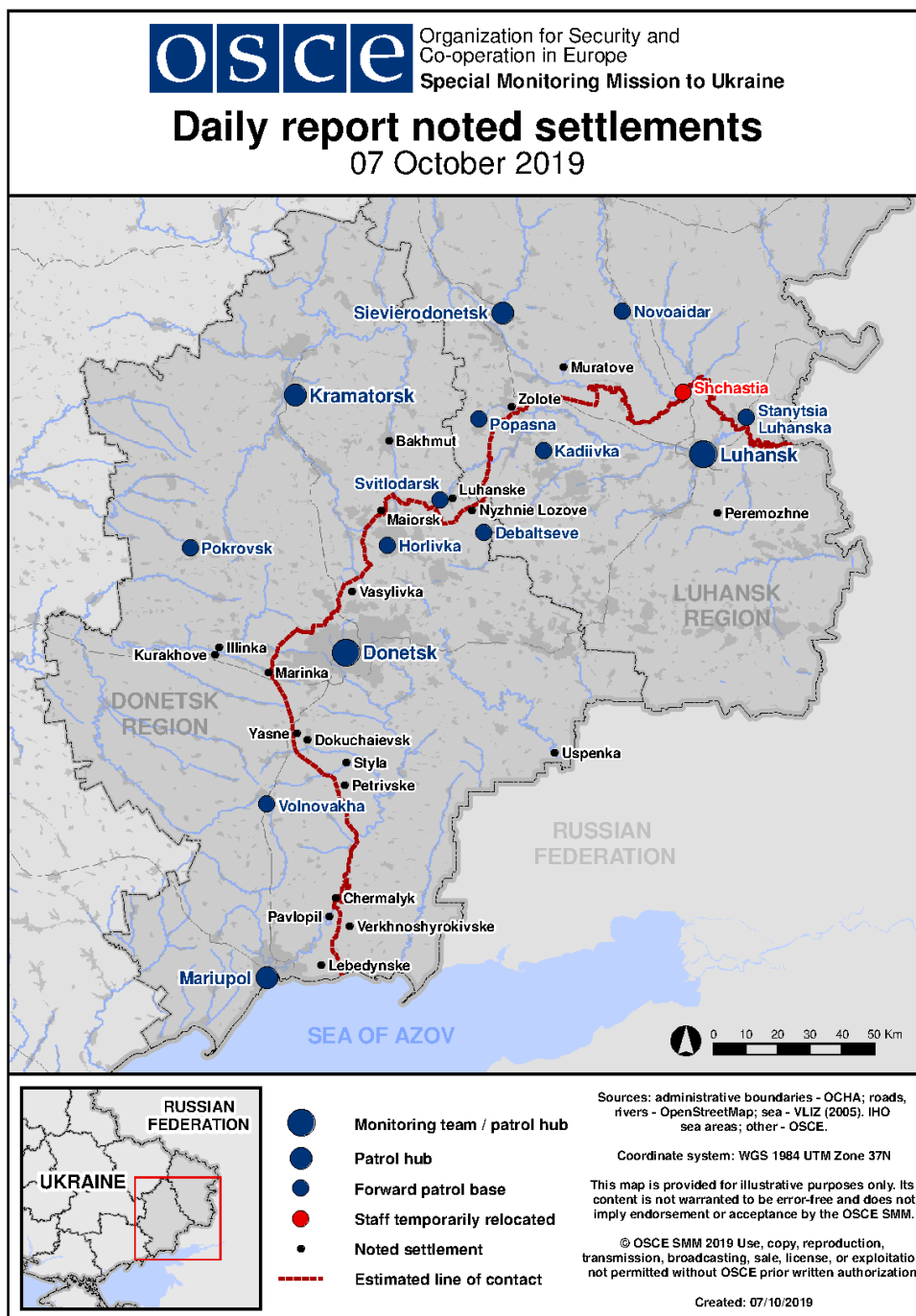
(non-government-controlled)							
About 8km NW of Donetsk City centre (non-government-controlled)	3-5km N	Heard	2	Explosion	Undetermined	N/K	6-Oct, 12:56
Oleksandrivka (non-government-controlled, 20km SW of Donetsk)	2-3km NW	Heard	25	Burst		HMG	6-Oct, 11:19-11:27
	2-3km NW	Heard	2	Shot		HMG	6-Oct, 12:21
	2-3km W	Heard	10	Burst		HMG	6-Oct, 12:40
	2-3km W	Heard	1	Shot		Small arms	6-Oct, 12:40
	2-3km W	Heard	1	Burst		HMG	6-Oct, 12:41
Krasnohorivka (government-controlled, 21km W of Donetsk)	1km E	Heard	35	Burst		HMG	6-Oct, 11:20-11:30
About 1km NW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	2-3km SSW	Heard	3	Shot		Small arms	6-Oct, 14:10
About 2km SE of Lebedynske (government-controlled, 99km S of Donetsk)	3km NNE	Heard	10	Burst		Small arms	6-Oct, 13:07-13:12
Svitlodarsk (government-controlled, 57km NE of Donetsk)	1-3km SW	Heard	5	Burst		Small arms	5-Oct, 18:31
	3-5km SW	Heard	2	Explosion	Undetermined	N/K	5-Oct, 18:36
	1-3km SW	Heard	10	Burst		HMG	5-Oct, 18:37-18:39
	3-5km SW	Heard	1	Burst		HMG	5-Oct, 18:53
	3-5km SW	Heard	2	Explosion	Undetermined	N/K	5-Oct, 18:59
	3-5km SW	Heard	7	Burst		HMG	5-Oct, 19:08-19:15
	3-6km SW	Heard	1	Burst		HMG	5-Oct, 19:23
	5-7km SW	Heard	3	Explosion	Undetermined	N/K	5-Oct, 19:45-19:50
	5-7km SW	Heard	2	Explosion	Undetermined	N/K	5-Oct, 19:57-19:59
	3-5km SW	Heard	3	Burst		HMG	5-Oct, 19:59
	3-5km SW	Heard	25	Explosion	Undetermined	N/K	5-Oct, 20:00-20:05
	3-5km SW	Heard	2	Explosion	Undetermined	N/K	5-Oct, 21:32
	3-5km SW	Heard	6	Burst		HMG	5-Oct, 21:32-21:37
	3-5km SW	Heard	1	Explosion	Undetermined	N/K	5-Oct, 21:42
	3-5km SW	Heard	8	Burst		HMG	5-Oct, 21:48
	3-5km SW	Heard	3	Explosion	Undetermined	N/K	5-Oct, 21:48
	3-5km SW	Heard	35	Burst		HMG	5-Oct, 21:49-21:50
	3-5km SW	Heard	10	Burst		HMG	5-Oct, 21:50
	1-3km SW	Heard	5	Burst		HMG	5-Oct, 21:51
	3-5km SW	Heard		Burst	Uncountable, overlapping	HMG	5-Oct, 21:51
	3-5km SW	Heard	3	Explosion	Undetermined	N/K	5-Oct, 21:52
	3-5km SW	Heard	4	Explosion	Undetermined	N/K	5-Oct, 21:52-21:53
3-5km SW	Heard		Burst	Uncountable, overlapping	HMG	5-Oct, 21:53	
2-5km SW	Heard	3	Explosion	Undetermined	N/K	5-Oct, 21:57	

2-5km SW	Heard	20	Burst		HMG	5-Oct, 21:57-21:58
2-5km SW	Heard	1	Explosion	Undetermined	N/K	5-Oct, 21:59
1-3km SW	Heard	30	Shot		Small arms	5-Oct, 21:59-22:00
3-5km SW	Heard	5	Explosion	Undetermined	N/K	5-Oct, 22:02
3-5km SW	Heard	10	Burst		HMG	5-Oct, 22:02
3-5km SW	Heard		Burst	Uncountable, overlapping	HMG	5-Oct, 22:03-22:04
2-3km SW	Heard	10	Shot		Small arms	5-Oct, 22:04
2-3km SW	Heard	3	Explosion		N/K	5-Oct, 22:04
1-3km SW	Heard	30	Burst		HMG	5-Oct, 22:04-22:06
3-5km SW	Heard	1	Explosion	Undetermined	N/K	5-Oct, 22:06
2-5km SW	Heard	30	Burst		HMG	5-Oct, 22:06-22:08
3-5km SW	Heard	1	Explosion	Undetermined	N/K	5-Oct, 22:08
2-5km SW	Heard	30	Shot		Small arms	5-Oct, 22:08-22:09
2-5km SW	Heard	10	Burst		HMG	5-Oct, 22:10
3-5km SW	Heard	1	Explosion	Undetermined	N/K	5-Oct, 22:10
3-5km SW	Heard		Shot and bursts	Uncountable, overlapping	HMG	5-Oct, 22:10-22:11
3-5km SW	Heard	1	Explosion	Undetermined	N/K	5-Oct, 22:12
1-5km SW	Heard	1	Explosion	Undetermined	N/K	5-Oct, 22:14
1-5km SW	Heard	15	Burst		HMG	5-Oct, 22:14
3-5km SW	Heard	1	Explosion	Undetermined	N/K	5-Oct, 22:15
1-5km SW	Heard	20	Burst		HMG	5-Oct, 22:16-22:17
1-5km SW	Heard	30	Burst		HMG	5-Oct, 22:18-22:19
3-5km SW	Heard	1	Explosion	Undetermined	N/K	5-Oct, 22:19
5-7km SW	Heard	30	Burst		HMG	5-Oct, 22:20
2-5km SW	Heard	20	Burst		HMG	5-Oct, 22:20
3-5km SW	Heard	1	Explosion	Undetermined	N/K	5-Oct, 22:21
3-5km SW	Heard	30	Shot		HMG	5-Oct, 22:22-22:24
3-7km SW	Heard	60	Burst		HMG	5-Oct, 22:24-22:25
3-7km SW	Heard	5	Explosion	Undetermined	N/K	5-Oct, 22:25-22:26
3-7km SW	Heard	60	Burst		HMG	5-Oct, 22:26-22:28
3-5km SW	Heard	2	Explosion	Undetermined	N/K	5-Oct, 22:28
3-7km SW	Heard	40	Shot		Other	5-Oct, 22:28
3-7km SW	Heard	45	Burst		HMG	5-Oct, 22:28-22:29
3-7km SW	Heard	5	Explosion	Undetermined	N/K	5-Oct, 22:29-22:31
3-7km SW	Heard	5	Explosion	Undetermined	N/K	5-Oct, 22:33-22:35
5-7km SW	Heard	40	Burst		HMG	5-Oct, 22:36-22:37
5-7km SW	Heard	50	Burst		HMG	5-Oct, 22:37-22:38
5-7km SW	Heard	4	Explosion	Undetermined	N/K	5-Oct, 22:38
5-7km SW	Heard	20	Burst		HMG	5-Oct, 22:38
3-5km SW	Heard	11	Explosion	Undetermined	N/K	5-Oct, 22:38-22:40
3-5km SW	Heard	4	Explosion	Undetermined	N/K	5-Oct, 22:42

	3-7km SW	Heard	20	Burst		HMG	5-Oct, 22:44
	3-5km SW	Heard	5	Explosion	Undetermined	N/K	5-Oct, 22:47-22:50
	5-7km SW	Heard	10	Burst		HMG	5-Oct, 22:50
	3-7km SW	Heard	4	Explosion	Undetermined	N/K	5-Oct, 22:52-22:53
	3-5km SW	Heard	5	Burst		HMG	5-Oct, 23:01
	3-5km SW	Heard	2	Explosion	Undetermined	N/K	5-Oct, 23:06
	3-5km SW	Heard	10	Burst		HMG	5-Oct, 23:16
	5-7km SW	Heard	2	Explosion	Undetermined	N/K	5-Oct, 23:16
	3-7km SW	Heard	3	Explosion	Undetermined	N/K	5-Oct, 23:22
	2-4km SW	Heard	6	Explosion	Impact	N/K	5-Oct, 23:28-23:35
	2-4km SW	Heard	6	Explosion	Impact	N/K	5-Oct, 23:40-23:45
	3-5km SW	Heard	8	Explosion	Impact	N/K	5-Oct, 23:50-23:55
	3-5km SW	Heard	8	Explosion	Impact	N/K	5-Oct, 23:57-23:59
	4-5km S	Heard	10	Explosion	Undetermined	N/K	6-Oct, 13:14-13:24
	4-5km SE	Heard	1	Explosion	Undetermined	N/K	6-Oct, 17:16
	4-5km S	Heard	3	Explosion	Undetermined	N/K	6-Oct, 17:53-17:56
Horlivka (non-government-controlled, 39km NE of Donetsk)	5-7km NW	Heard	25	Explosion	Undetermined	N/K	6-Oct, 17:45-18:00
SMM camera in Zolote (government-controlled, 60km W of Luhansk)	2-3km E	Recorded	1	Projectile	NNW to SSE (assessed as outside the disengagement area)	N/K	5-Oct, 19:13
	1-2km E	Recorded	2	Projectile	SW to NE (assessed as outside the disengagement area)	N/K	6-Oct, 01:06
	1-2km E	Recorded	1	Projectile	SW to NE (assessed as outside the disengagement area)	N/K	6-Oct, 01:07
	2-3.5km S	Recorded	2	Projectile	ENE to WSW (assessed as inside the disengagement area)	N/K	6-Oct, 01:23
	2-3.5km S	Recorded	2	Explosion	Undetermined (assessed as inside the disengagement area)	N/K	6-Oct, 01:44
	0.5-1km N	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	6-Oct, 01:53
N edge of Popasna (government-controlled, 69km W of Luhansk)	10-15km S	Heard	156	Explosion	Undetermined	N/K	5-Oct, 17:27-18:50
	3-5km SE	Heard	26	Explosion	Undetermined	N/K	5-Oct, 17:45-18:43
	5-10km SE	Heard	3	Explosion	Undetermined	N/K	6-Oct, 00:55-01:05

3km N of Pervomaisk (non-government-controlled, 58km W of Luhansk)	3-5km SW	Heard	36	Burst	Assessed as outside the Zolote disengagement	HMG	6-Oct, 10:48-11:00
	3-5km SW	Heard	2	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	6-Oct, 11:00
	3-5km SW	Heard	20	Burst	Assessed as outside the disengagement area	HMG	6-Oct, 11:20
	300-500m NW	Heard	1	Shot	Assessed as inside the disengagement area	Small arms	6-Oct, 11:49
2km E of Orikhove-Donetske (government-controlled, 44km NW of Luhansk)	5-7km SW	Heard	2	Explosion	Undetermined	N/K	6-Oct, 13:03

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).