

# Daily Report 247/2019

18 October 2019<sup>1</sup>

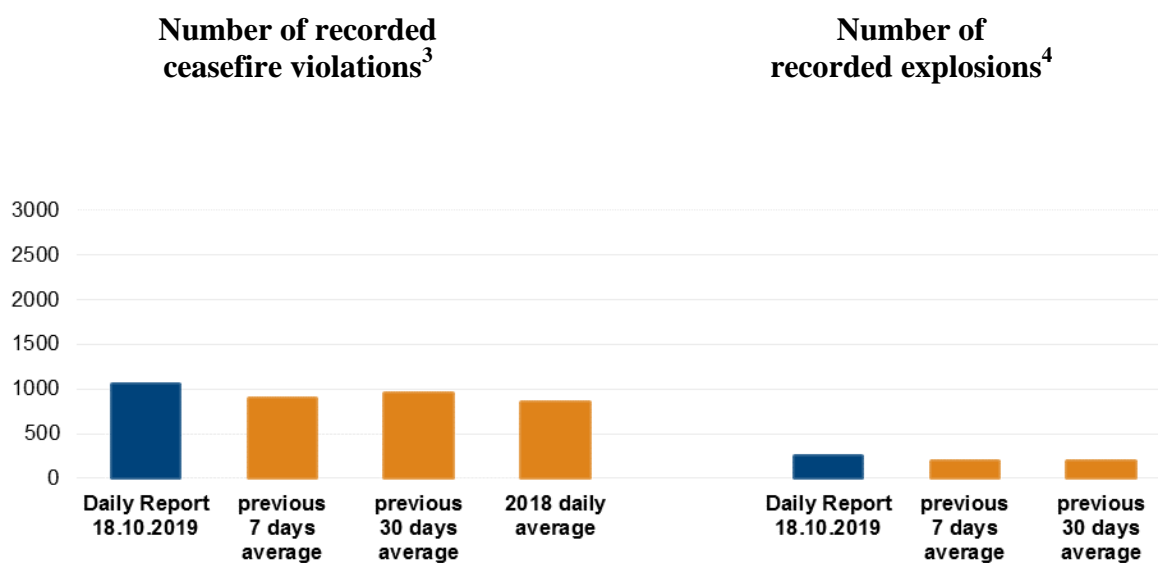
## Summary

- Compared with the previous reporting period, the SMM recorded a similar number of ceasefire violations in Donetsk region and fewer ceasefire violations in Luhansk region.
- The SMM followed up on reports of a boy injured due exploding ammunition in the Budonivskyi district of non-government-controlled Donetsk city.
- Inside the Stanytsia Luhanska disengagement area, the SMM saw workers from government-controlled areas laying gravel at the foundations of the broken section of the bridge.
- The Mission recorded ceasefire violations inside the Petrivske disengagement area. It observed military and military-type presence inside the disengagement areas near Petrivske and Zolote.
- The SMM saw anti-tank mines near Spartak and mine hazard signs near Olenivka.
- The Mission observed two truck convoys from the Russian Federation in non-government-controlled areas of Donetsk and Luhansk regions.
- The Mission monitored adherence to the ceasefire to facilitate the operation of and repairs to critical civilian infrastructure along the contact line.
- Restrictions of the Mission's freedom of movement continued, including at a checkpoint of the armed formations near Zaichenko.\*

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<sup>1</sup> Based on information from the Monitoring Teams as of 19:30, 17 October 2019. All times are in Eastern European Summer Time.

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



<sup>2</sup> For a complete breakdown of ceasefire violations, please see the annexed table. During the reporting period, the SMM cameras at the Donetsk Filtration Station and in the southern part of the Zolote disengagement area were not operational.

<sup>3</sup> Including explosions.

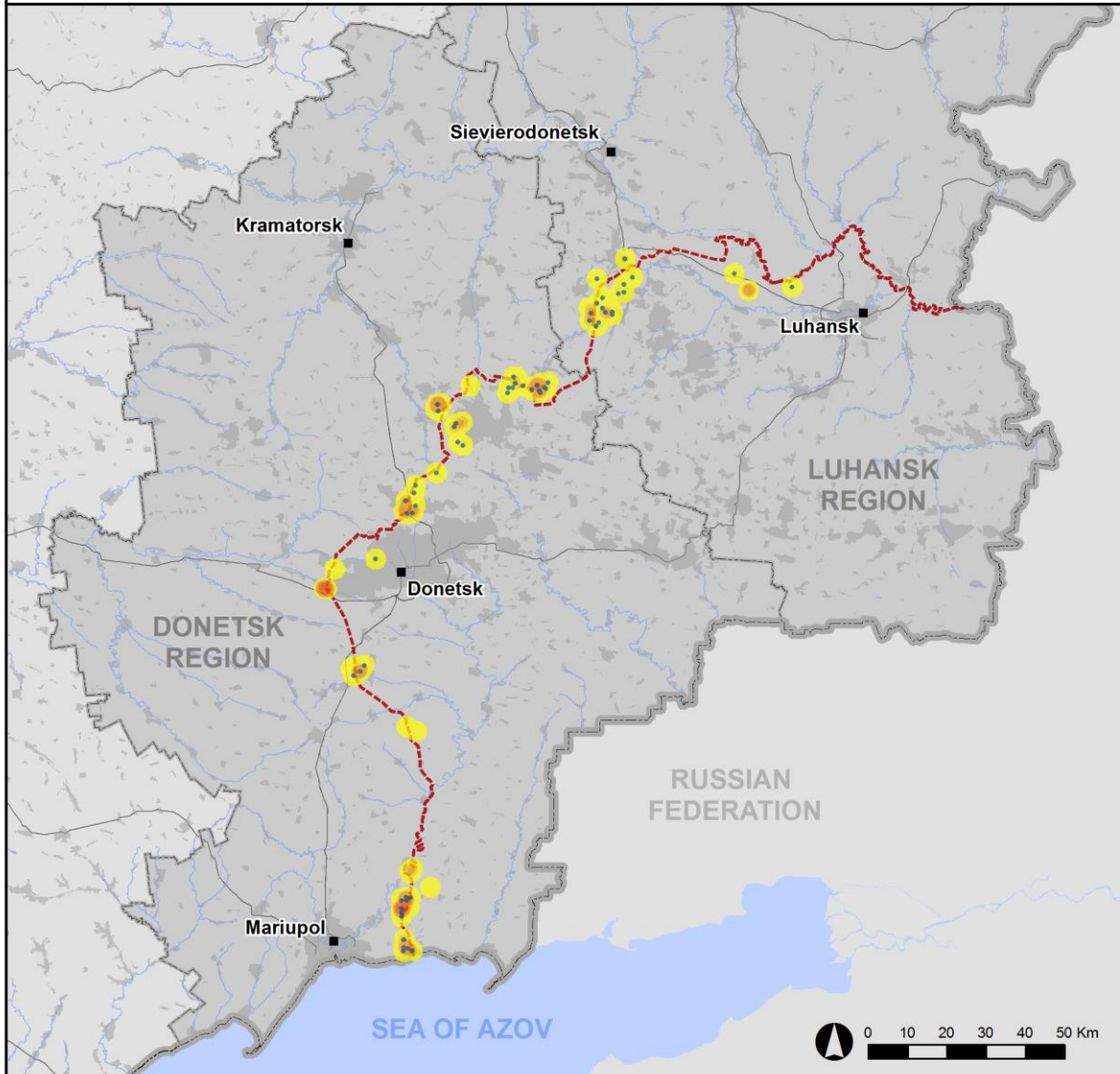
<sup>4</sup> Including from unidentified weapons.

### Map of recorded ceasefire violations

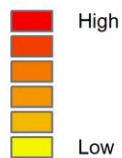


Organization for Security and  
Co-operation in Europe  
Special Monitoring Mission to Ukraine

## Ceasefire violations observed by the SMM 17 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: 18/10/2019

In Donetsk region, the SMM recorded a similar number of ceasefire violations, including more explosions (about 170), compared with [the previous reporting period](#) (122 explosions). The majority of ceasefire violations were recorded in areas south and south-south-east of Pyshevyk (government-controlled, 84km south of Donetsk), in areas north and north-north-east of Marinka (government-controlled, 23km south-west of Donetsk) and at south-easterly directions of Svitlodarsk (government-controlled, 57km north-east of Donetsk).

In Luhansk region, the Mission recorded fewer ceasefire violations, including, however, more explosions (82), compared with [the previous reporting period](#) (49 explosions). The majority of ceasefire violations were recorded in areas west-north-west and south-south-east of Stepove (non-government-controlled, 27km west of Luhansk), at south-easterly directions of Popasna (government-controlled, 69km west of Luhansk) and in areas south-south-west of Kalynove-Borshchuvate (non-government-controlled, 61km west of Luhansk), where the majority of explosions occurred.

### **Child injured from ammunition explosion in Budonivskiy district of Donetsk city**

The Mission followed up on reports of a boy injured from the explosion of a cartridge in Budonivskiy district of Donetsk city on 12 October. On 13 October, at the Donetsk Regional Clinical Trauma Hospital, medical staff told the SMM that a nine-year-old boy had been admitted on 12 October with an injury to his right shin caused by an explosion of an ammunition cartridge. On 17 October, at the same hospital, the Mission saw the boy lying in bed.

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

On the afternoon of 17 October, inside **the disengagement area near Stanytsia Luhanska** (government-controlled, 16km north-east of Luhansk), the SMM observed workers from government-controlled areas collecting cut wood east of the broken section of the Stanytsia Luhanska bridge (15km north-east of Luhansk) and cutting and transporting metal parts west of the broken section of the bridge. On the same afternoon, the Mission saw four workers from government-controlled areas with excavating equipment and a truck laying gravel at the foundations of the broken section of the bridge.

On the morning of the same day, the SMM saw about 250 cars and 300 people queuing near the Prince Ihor monument about 1km south-south-east of the Stanytsia Luhanska Bridge. At the adjacent parking lot, the Mission saw four workers from non-government-controlled areas preparing the ground for laying asphalt. A member of the armed formations (wearing an armband with "JCCC" written on it) told the SMM that the parking lot would be temporarily closed for about two weeks due to ongoing preparations for laying asphalt.

The Mission continued to observe a steady flow of civilians between the entry-exit checkpoint (EECP) of the Ukrainian Armed Forces and the checkpoint of the armed formations. The SMM noted that in addition to a previously reported bus and a golf cart, another bus and a golf cart were also operating between the EECP and the broken section of the bridge.

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

On 16 October, **inside the disengagement area near Zolote** (government-controlled, 60km west of Luhansk), an SMM mini-unmanned aerial vehicle (UAV) spotted two trucks and 34 people, assessed as Ukrainian Armed Forces personnel, carrying out vegetation clearance along both sides of road T-1316, starting south of the disengagement area's northern edge until about 125m north of the railway tracks (the Mission observed the same activity on 17 October).

On the morning of 17 October, the SMM saw an excavator in a field at the northern edge of the disengagement area, about 300m east of road T-1316 and a military ambulance leaving the area. A Ukrainian Armed Forces officer to the Joint Centre for Control and Co-ordination (JCCC) told the SMM that there had been an explosion caused by a mine in a field east of the aforementioned road and that one soldier had been injured. At the checkpoint of the Ukrainian Armed Forces at the northern edge of the disengagement area, the Mission saw a truck towing the excavator, with its front left wheel slanted and its front right wheel, hood, and windshield missing.

On the same day, inside the disengagement area, on the eastern shoulder of road T-1316 about 40m south of the area's northern edge, the SMM saw up to ten Ukrainian Armed Forces personnel constructing a new position with five Hesco-type barriers which were being filled with dirt using a crane. Outside the disengagement area, the SMM also saw up to ten Ukrainian Armed Forces personnel digging trenches in the fields along the outer side of the disengagement area's northern edge about 1km east of the aforementioned road.

During the same day, positioned at three locations near Zolote, the SMM heard 17 undetermined explosions, assessed as outside the disengagement area but within its 5km periphery.

On 16 October, inside the **disengagement area near Petrivske** (non-government-controlled 41km south of Donetsk), an SMM mini-UAV spotted a truck, three vehicles and ten people, assessed as Ukrainian Armed Forces personnel, near positions of the Ukrainian Armed Forces. An armoured reconnaissance vehicle (BRDM-2) and an armoured personnel carrier (APC) (BTR-80), [previously reported](#) near these positions, were no longer present. Inside the disengagement area, the UAV also spotted a member of the armed formations as well as a [previously reported](#) machine gun (probable DShK) near the area's north-eastern edge and four members of the armed formations (three were digging a trench) near the area's south-eastern edge.

Outside the disengagement area, north of its northern edge, an SMM mini-UAV spotted a truck, as well as [again](#) spotted 14 holes arranged in two rows and 16 anti-tank mines nearby positions of the armed formations. The UAV also [again](#) spotted 51 anti-tank mines on the road between Viktorivka (non-government-controlled, 42km south-west of Donetsk) and Bohdanivka (government-controlled, 41km south-west of Donetsk), assessed as belonging to the Ukrainian Armed Forces. About 2.5km north-east of the north-eastern edge of the disengagement area, near [previously spotted](#) trenches, the UAV spotted 25 holes in two rows on the ground, in an area where the SMM had [previously spotted](#) 80 anti-tank mines. The holes were assessed as a probable buried minefield.

During the day on 17 October, positioned about 2km north of Petrivske, the SMM heard two shots of small-arms fire at an assessed range of 3-4km south-west, assessed as inside the disengagement area, and four bursts of heavy-machine-gun fire at an assessed range of 3-4km south, 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.

The Mission observed a weapon in violation of withdrawal lines in a government-controlled area of Luhansk region and 16 weapons beyond withdrawal lines but outside of designated storage sites in government-controlled areas of Donetsk region (for further details, see the tables below).

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

The SMM observed military and military-type presence, including new trenches, APCs, infantry fighting vehicles, and armoured combat vehicles, in the security zone in on both sides of the contact line (for more details, see the table below).

### **Anti-tank mines near Spartak and mine hazard signs near Olenivka**

On 15 October, on the northern edge of Spartak (non-government-controlled, 9km north of Donetsk), an SMM mid-range UAV spotted 44 anti-tank mines laid in two rows across a road leading to Yasynuvata (non-government-controlled, 16km north-east of Donetsk), assessed as not recent. About 180m south from the mines, the UAV spotted for the first time a roadblock consisting of concrete barriers across the full width of the road.

On 17 October, the SMM again saw 120 mine hazard signs on both sides of a road between a checkpoint of the armed formations near Olenivka (non-government-controlled, 23km south-west of Donetsk) and Berezove (government-controlled, 31km south-west of Donetsk).

### **Two convoys from the Russian Federation spotted in non-government-controlled areas of Donetsk and Luhansk regions**

On 17 October in the southern parts of non-government-controlled Luhansk city, the SMM saw a convoy arriving to a parking lot from the north. The convoy consisted of 11 trucks (without licence plates) with white trailers (with a three-coloured flag used by the armed formations and “Humanitarian aid from the Russian Federation” written in Russian on them) and four vehicles (one with Russian Federation licence plates and three with “LPR” plates).

On the same day on the southern outskirts of Khartsyzk (non-government-controlled, 26km east of Donetsk), the SMM saw a convoy of 25 trucks with Russian Federation licence plates (with “Humanitarian Aid from Russia” written in Russian on two of them) accompanied by five vehicles with “DPR” plates, driving west. Later that day, the same convoy was seen again in Makiivka (non-government-controlled, 12km north-east of Donetsk) driving on a road towards the border with the Russian Federation. All trucks had a piece of cardboard with “Empty” written in Russian put in their windshields.

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

### **Cargo train spotted in non-government-controlled areas of Donetsk region**

On 16 October near the railway station in Debaltseve (non-government-controlled, 58km north-east of Donetsk), an SMM mini-UAV spotted a train moving east consisting of 50 empty coal wagons pulled by a diesel locomotive. Near the same station, the UAV spotted a stationary rake of 40 fully-loaded coal wagons without a locomotive.

### **SMM facilitation of operation of and repair works 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), to water pipelines near Novoluhanske (government-controlled, 53km north-east of Donetsk) and near Holmivskiyi (non-government-controlled, 49km north-east of Donetsk); the maintenance of the Phenol Sludge Reservoir near Zalizne (formerly Artemove, government-controlled, 42km north-east of Donetsk); and the drilling of water wells near Raivka (non-government-controlled, 16km north-west of Luhansk).

The Mission continued to facilitate the operation of the Donetsk Filtration Station (15km north of Donetsk).

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

While at a border crossing point near Uspenka (73km south-east of Donetsk) for an hour, the SMM saw 14 cars (one with Ukrainian, one with Russian Federation, one with Belarusian, one with Latvian and one with German licence plates, as well as nine with “DPR” plates), four covered cargo trucks (three with Ukrainian licence plates and one with “DPR” plates), two buses with “DPR” plates and two pedestrians (women in their forties) entering Ukraine. The Mission also saw 27 cars (five with Ukrainian and 13 with Russian Federation licence plates, as well as nine with “DPR” plates), two covered cargo trucks with “DPR” plates, two busses with “DPR” plates and 18 pedestrians (13 men and five women, mixed ages) exiting Ukraine.

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

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

*The SMM’s monitoring and freedom of movement are restricted by security hazards and threats, including risks posed by mines, 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 16 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.*

Denial of access:

- At a checkpoint north of Zaichenko (non-government-controlled, 93km south of Donetsk), an armed member of the armed formations [again](#) denied the SMM passage towards Sakhanka (non-government-controlled, 97km south of Donetsk), 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 the night of 16 and 17 October, an SMM long-range UAV lost its GPS signal due to signal interference, assessed as caused by probable jamming, while flying near Ivanopillia (government-controlled, 51km north of Donetsk). The same UAV also experienced dual GPS signal interference, assessed as caused by jamming, while flying near Zolote-4/Rodina (government-controlled, 59km west of Luhansk).<sup>7</sup>

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



## Table of weapons

### Weapons in violation of the withdrawal lines

Date	No.	Type	Location	Source of observation
<b>Government-controlled areas</b>				
16/10/2019	1	Surface-to-air missile system (9K33 <i>Osa</i> )	Near Muratove (51km north-west of Luhansk)	Long-range UAV

### Beyond withdrawal lines but outside of designated storage sites

Date	No.	Type	Location	Source of observation
<b>Government-controlled areas</b>				
16/10/2019	4	Self-propelled howitzers (2S3 <i>Akatsiya</i> , 152mm) (two probable)	On the outskirts of Manhush (111km south of Donetsk)	Mini UAV
17/10/2019	12	Self-propelled howitzer (2S1 <i>Gvozdika</i> , 122mm)	Train station in Druzhkivka (72km north of Donetsk)	Patrol

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

Date	No.	Type	Location	Source of observation	
<b>Government-controlled areas</b>					
16/10/2019	2	Armoured personnel carrier (BTR-70)	Near the forward positions of the Ukrainian Armed Forces near Troitske (30km north of Donetsk)	Mini UAV	
	1	Armoured combat vehicle			
	1	Infantry fighting vehicle (BMP-1)	In a residential area in Zolote-4/Rodina (59km west of Luhansk)	Long-range UAV	
	4	Armoured combat vehicle			
	3	Infantry fighting vehicle (BMP-1)			
		1	Armoured combat vehicle		Near Muratove (51km north-west of Luhansk)
17/10/2019	1	Armoured personnel carrier (BTR-70)	In a residential area in Toretsk (formerly Dzerzhynsk, 43km north of Donetsk)		Patrol
17/10/2019	1	Mine resistant ambush protected (MRAP Kraz) vehicle, with mounted machine gun	Eastern edge of Zolote-2/Karbonit (60km west of Luhansk)		Patrol
17/10/2019	2	Armoured personnel carrier (an MT-LB a KrAZ Cougar with a heavy machine gun)	North of the disengagement area near Zolote (60km west of Luhansk)	Patrol	
<b>Non-government-controlled areas</b>					
16/10/2019	2	New trenches, totalling 150m in length (not seen in imagery from 30 July 2019)	3km east of Donetskyi (49km west of Luhansk)	Mini UAV	

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

**Table of ceasefire violations as of 17 October 2019<sup>9</sup>**

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera in Berezove (government-controlled, 31km SW of Donetsk)	4-6km SSE	Recorded	2	Projectile	WNW to ESE	N/K	16-Oct, 18:02
	4-6km ESE	Recorded	3	Projectile	WSW to ENE	N/K	16-Oct, 19:04
	4-6km ESE	Recorded	3	Explosion	Undetermined, subsequent to previous event	N/K	16-Oct, 19:04
	4-6km SE	Recorded	1	Projectile	WNW to ESE	N/K	16-Oct, 19:12
	4-6km SE	Recorded	1	Explosion	Undetermined	N/K	16-Oct, 19:12
	4-6km SE	Recorded	1	Explosion	Undetermined	N/K	16-Oct, 19:12
	4-6km SE	Recorded	1	Explosion	Outgoing	N/K	16-Oct, 19:13
	4-6km SE	Recorded	1	Projectile	WNW to ESE	N/K	16-Oct, 19:13
	4-6km SE	Recorded	4	Projectile	NW to SE	N/K	16-Oct, 19:13
	4-6km SE	Recorded	2	Explosion	Undetermined	N/K	16-Oct, 19:13
	4-6km SE	Recorded	1	Explosion	Outgoing	N/K	16-Oct, 19:14
	4-6km SE	Recorded	1	Projectile	WNW to ESE	N/K	16-Oct, 19:14
	4-6km SE	Recorded	1	Explosion	Undetermined, subsequent to previous event	N/K	16-Oct, 19:14
	4-6km SE	Recorded	1	Explosion	Outgoing	N/K	16-Oct, 19:17
	4-6km SE	Recorded	1	Projectile	WNW to ESE	N/K	16-Oct, 19:17
	4-6km SE	Recorded	1	Explosion	Undetermined, subsequent to previous event	N/K	16-Oct, 19:17
	4-6km SE	Recorded	1	Projectile	WSW to ENE	N/K	16-Oct, 19:18
	4-6km SE	Recorded	1	Explosion	Undetermined	N/K	16-Oct, 19:18
	4-6km SE	Recorded	10	Projectile	WSW to ENE	N/K	16-Oct, 19:19
	4-6km SE	Recorded	2	Explosion	Airburst	N/K	16-Oct, 19:21
	4-6km SSE	Recorded	1	Explosion	Undetermined	N/K	16-Oct, 19:25
	4-6km SSE	Recorded	1	Explosion	Undetermined	N/K	16-Oct, 19:26
	4-6km SE	Recorded	1	Projectile	WSW to ENE	N/K	16-Oct, 19:26
	4-6km SE	Recorded	1	Muzzle flash		N/K	16-Oct, 19:48
	4-6km SE	Recorded	1	Projectile	WSW to ENE	N/K	16-Oct, 19:48
	2-4km SE	Recorded	1	Muzzle flash		N/K	16-Oct, 20:35
	2-4km SSE	Recorded	3	Projectile	ESE to WNW	N/K	17-Oct, 18:27
2-4km SSE	Recorded	3	Projectile	ESE to WNW	N/K	17-Oct, 18:27	
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	8-10km SE	Recorded	1	Illumination flare	In vertical flight	N/K	16-Oct, 18:17
	2-4km SSE	Recorded	1	Projectile	NW to SE	N/K	16-Oct, 19:24
	2-4km SSE	Recorded	3	Projectile	W to E	N/K	16-Oct, 19:25
	2-3km SSE	Recorded	3	Projectile	WSW to ENE	N/K	16-Oct, 23:42
	2-3km SSE	Recorded	2	Projectile	WSW to ENE	N/K	16-Oct, 23:43
	2-3km SSE	Recorded	1	Projectile	WSW to ENE	N/K	17-Oct, 00:04
	2-3km SE	Recorded	9	Projectile	ENE to WSW	N/K	17-Oct, 02:34
SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk)	2-4km E	Recorded	1	Illumination flare	In vertical flight (also recorded by the SMM cameras in Chermalyk and Shyrokyne)	N/K	16-Oct, 18:17
	2-4km E	Recorded	11	Projectile	SW to NE	N/K	16-Oct, 20:32

<sup>9</sup> The table only includes ceasefire violations directly observed by the SMM and it may include those also assessed to be live-fire exercises, controlled detonations, etc. Details provided – in terms of distance, direction, weapons-type, etc. – are based on assessments provided by monitors on the ground, and are not always necessarily precise. When information is not known (indicated with an “N/K”), the SMM was unable to ascertain such information due to distance, weather conditions and/or other considerations. Ceasefire violations recorded by more than one patrol and assessed to be the same are entered only once.

	3-5km E	Recorded	2	Explosion	Undetermined	N/K	16-Oct, 20:32
	2-4km E	Recorded	1	Projectile	NW to SE	N/K	16-Oct, 20:32
	2-4km E	Recorded	1	Explosion	Impact, subsequent to previous event	N/K	16-Oct, 20:33
	2-4km E	Recorded	2	Projectile	SW to NE	N/K	16-Oct, 20:32
SMM camera in Krasnohorivka (government-controlled, 21km W of Donetsk)	2-3km ESE	Recorded	2	Projectile	NNE to SSW	N/K	16-Oct, 23:41
	2-3km ESE	Recorded	1	Projectile	WSW to ENE	N/K	16-Oct, 23:41
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	2-3km ENE	Recorded	3	Projectile	N to S	N/K	17-Oct, 01:56
	2-3km ENE	Recorded	2	Projectile	N to S	N/K	17-Oct, 04:09
SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)	1-2km NNE	Recorded	15	Projectile	W to E	N/K	16-Oct, 21:21
	1-2km NNE	Recorded	1	Projectile	SW to NE	N/K	16-Oct, 21:21
	1-2km NNE	Recorded	1	Projectile	S to N	N/K	16-Oct, 21:21
	1-2km NNE	Recorded	13	Projectile	SW to NE	N/K	16-Oct, 21:22
	1-2km NNE	Recorded	28	Projectile	W to E	N/K	16-Oct, 21:22
	1-2km N	Recorded	9	Projectile	W to E	N/K	16-Oct, 21:23
	1-2km N	Recorded	114	Projectile	SW to NE	N/K	16-Oct, 21:36
	1-2km N	Recorded	16	Projectile	SW to NE	N/K	16-Oct, 21:37
	2-3km S	Recorded	1	Projectile	NE to SW	N/K	16-Oct, 18:19
	2-3km SSE	Recorded	19	Projectile	E to W	N/K	16-Oct, 19:37
	4-6km SSE	Recorded	6	Projectile	W to E	N/K	16-Oct, 22:29
	2-4km SSE	Recorded	1	Muzzle flash		N/K	16-Oct, 20:32
	2-4km SSE	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	16-Oct, 20:32
	2-4km SSE	Recorded	4	Projectile	W to E	N/K	16-Oct, 20:32
	2-4km SSE	Recorded	1	Muzzle flash		N/K	16-Oct, 20:33
	2-4km SSE	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	16-Oct, 20:33
	2-4km SSE	Recorded	1	Explosion	Impact, subsequent to previous event	N/K	16-Oct, 20:33
SMM camera at entry-exit checkpoint in Pyshevyk (government-controlled, 84km S of Donetsk)	2-4km SSE	Recorded	12	Projectile	W to E	N/K	16-Oct, 20:33
	2-4km SSE	Recorded	12	Projectile	E to W	N/K	16-Oct, 21:41
	4-6km S	Recorded	17	Projectile	W to E	N/K	16-Oct, 21:45
	4-6km S	Recorded	4	Projectile	W to E	N/K	16-Oct, 21:50
	4-6km S	Recorded	9	Projectile	W to E	N/K	16-Oct, 21:55
	4-6km S	Recorded	3	Projectile	E to W	N/K	16-Oct, 21:55
	4-6km S	Recorded	4	Projectile	W to E	N/K	16-Oct, 21:56
	4-6km S	Recorded	2	Projectile	W to E	N/K	16-Oct, 21:57
	4-6km S	Recorded	1	Explosion	Undetermined	N/K	16-Oct, 21:57
	4-6km S	Recorded	1	Burst	W to E (approximately 15 rounds)	N/K	16-Oct, 21:58
	4-6km S	Recorded	3	Projectile	E to W	N/K	16-Oct, 22:04
	4-6km S	Recorded	5	Projectile	W to E	N/K	16-Oct, 22:32
	4-6km S	Recorded	47	Projectile	W to E	N/K	16-Oct, 22:30
	4-6km S	Recorded	2	Projectile	W to E	N/K	16-Oct, 22:32
	4-6km S	Recorded	3	Projectile	W to E	N/K	17-Oct, 23:33
	4-6km S	Recorded	1	Projectile	E to W	N/K	16-Oct, 22:51
	4-6km S	Recorded	1	Explosion	Undetermined	N/K	16-Oct, 22:51
	4-6km S	Recorded	1	Explosion	Impact	N/K	16-Oct, 22:51

	4-6km S	Recorded	3	Projectile	W to E	N/K	16-Oct, 22:52
	4-6km S	Recorded	3	Projectile	W to E	N/K	16-Oct, 22:53
	4-6km S	Recorded	5	Projectile	W to E	N/K	16-Oct, 22:54
	4-6km S	Recorded	2	Explosion	Undetermined	N/K	16-Oct, 22:54
	4-6km S	Recorded	7	Projectile	W to E	N/K	16-Oct, 23:19
	4-6km S	Recorded	3	Projectile	W to E	N/K	16-Oct, 23:20
	4-6km S	Recorded	12	Projectile	W to E	N/K	16-Oct, 23:21
	4-6km S	Recorded	1	Explosion	Undetermined	N/K	16-Oct, 23:21
	4-6km S	Recorded	1	Projectile	ENE to WSW	N/K	16-Oct, 23:23
	4-8km S	Recorded	2	Explosion	Undetermined	N/K	16-Oct, 23:38
	4-6km S	Recorded	1	Projectile	SE to NW	N/K	16-Oct, 23:38
	4-6km S	Recorded	15	Projectile	W to E	N/K	17-Oct, 00:25
	6-8km S	Recorded	1	Explosion	Undetermined	N/K	17-Oct, 01:01
	6-8km S	Recorded	1	Explosion	Undetermined	N/K	17-Oct, 01:02
	4-6km S	Recorded	1	Projectile	W to E	N/K	17-Oct, 01:02
	4-8km S	Recorded	7	Projectile	W to E	N/K	17-Oct, 01:11
	4-6km S	Recorded	1	Projectile	In vertical flight	N/K	17-Oct, 01:12
	4-6km S	Recorded	14	Projectile	W to E	N/K	17-Oct, 01:16
	4-6km S	Recorded	3	Projectile	NW to SE	N/K	17-Oct, 01:16
	4-6km S	Recorded	3	Projectile	In vertical flight	N/K	17-Oct, 01:16
	4-6km S	Recorded	1	Projectile	W to E	N/K	17-Oct, 02:15
	4-6km S	Recorded	3	Projectile	W to E	N/K	17-Oct, 02:18
	4-6km S	Recorded	2	Projectile	W to E	N/K	17-Oct, 02:19
	2-4km S	Recorded	1	Projectile	W to E	N/K	17-Oct, 02:25
	4-6km S	Recorded	2	Projectile	In vertical flight	N/K	17-Oct, 03:20
	4-6km S	Recorded	6	Projectile	W to E	N/K	17-Oct, 03:21
	4-6km S	Recorded	1	Projectile	In vertical flight	N/K	17-Oct, 03:21
	2-4km S	Recorded	1	Explosion	Undetermined	N/K	17-Oct, 05:28
	2-4km N	Recorded	1	Projectile	W to E	N/K	16-Oct, 18:27
	2-4km N	Recorded	1	Projectile	W to E	N/K	16-Oct, 18:30
	2-4km N	Recorded	1	Projectile	W to E	N/K	16-Oct, 18:32
	2-4km NNE	Recorded	13	Projectile	WNW to ESE	N/K	16-Oct, 18:36
	2-4km NE	Recorded	9	Explosion	Undetermined	N/K	16-Oct, 18:43
	2-4km NE	Recorded	1	Explosion	Undetermined	N/K	16-Oct, 19:13
	4-6km N	Recorded	1	Projectile	W to E	N/K	16-Oct, 19:51
	1-3km N	Recorded	1	Explosion	Undetermined	N/K	16-Oct, 21:57
	1-3km N	Recorded	1	Projectile	ESE to WNW	N/K	16-Oct, 21:57
	2-4km N	Recorded	2	Projectile	WNW to ESE	N/K	16-Oct, 21:59
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	16-Oct, 22:48
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	16-Oct, 22:51
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	16-Oct, 22:54
	2-4km NE	Recorded	1	Explosion	Undetermined	N/K	16-Oct, 23:17
	2-4km NE	Recorded	1	Explosion	Undetermined	N/K	16-Oct, 23:21
	2-4km NE	Recorded	1	Explosion	Undetermined	N/K	16-Oct, 23:22
	1-3km N	Recorded	2	Projectile	SE to NW	N/K	16-Oct, 23:38
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	16-Oct, 23:38
	4-6km N	Recorded	5	Explosion	Undetermined	N/K	16-Oct, 23:40
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	16-Oct, 23:41
	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	16-Oct, 23:43
	2-4km NNE	Recorded	3	Explosion	Undetermined	N/K	16-Oct, 23:44
	2-4km N	Recorded	3	Projectile	WSW to ENE	N/K	16-Oct, 23:44
	2-4km N	Recorded	1	Muzzle flash		N/K	17-Oct, 00:17
	2-4km N	Recorded	1	Projectile	WNW to ESE (subsequent to previous event)	N/K	17-Oct, 00:17
	2-4km N	Recorded	4	Explosion	Undetermined	N/K	17-Oct, 03:53
	4-6km NE	Heard	1	Explosion	Undetermined	N/K	17-Oct, 11:14
	1-2km SE	Heard	2	Burst		Small arms	17-Oct, 11:17
	2km SE	Heard	4	Burst		HMG	17-Oct, 11:18
	2-3km SE	Heard	6	Explosion	Undetermined	Cannon	17-Oct, 11:22

						30mm	
	1-2km SE	Heard	5	Burst		Small arms	17-Oct, 14:37
	1-2km SE	Heard	13	Burst		Small arms	17-Oct, 14:43-14:45
	1-2km SE	Heard	4	Shot		Small arms	17-Oct, 14:47
Donetsk central railway station (non-government-controlled, 6km NW of Donetsk)	5-7km SW	Heard	1	Explosion	Undetermined	N/K	17-Oct, 10:04
About 1.8km N of Petrivske (non-government-controlled, 41km S of Donetsk)	3-4km S	Heard	4	Burst	Assessed as outside the disengagement area	HMG	17-Oct, 13:00
	3-4km SW	Heard	1	Shot	Assessed as inside the disengagement area	Small arms	17-Oct, 13:20
	3-4km SW	Heard	1	Shot	Assessed as inside the disengagement area	Small arms	17-Oct, 13:24
About 1km NW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	2-3km SW	Heard	1	Explosion	Undetermined	N/K	17-Oct, 09:35
	2-3km SW	Heard	3	Explosion	Undetermined	N/K	17-Oct, 09:45
	1km W	Heard	1	Explosion	Undetermined	N/K	17-Oct, 10:50
	2km SW	Heard	7	Burst		HMG	17-Oct, 14:42
	2km SW	Heard	7	Burst		HMG	17-Oct, 14:45
	2km SW	Heard	2	Burst		HMG	17-Oct, 14:47
Horlivka (non-government-controlled, 39km NE of Donetsk)	3-5km SW	Heard	1	Explosion	Undetermined	N/K	17-Oct, 00:28
	3-5km SW	Heard	1	Explosion	Undetermined	N/K	17-Oct, 00:32
	3-5km SSW	Heard	3	Explosion	Undetermined	N/K	17-Oct, 10:59-11:05
W edge of Horlivka (non-government-controlled, 39 km NE of Donetsk)	1-2km SE	Heard	3	Burst		HMG	17-Oct, 10:01
	1-2km SSW	Heard	1	Explosion	Undetermined	N/K	17-Oct, 10:08
	1-2km SE	Heard	5	Burst		HMG	17-Oct, 10:13
	1-2km SE	Heard	3	Burst		HMG	17-Oct, 10:36
	1-2km SE	Heard	3	Burst		HMG	17-Oct, 10:45
	2-3km SSW	Heard	1	Explosion	Undetermined	N/K	17-Oct, 10:48
	2-3km SSW	Heard	2	Explosion	Undetermined	N/K	17-Oct, 10:58
	2-3km SSW	Heard	5	Burst		HMG	17-Oct, 10:58
	1-2km SSW	Heard	1	Explosion	Undetermined	N/K	17-Oct, 11:01
	2-3km SSW	Heard	5	Burst		HMG	17-Oct, 11:46
Svitlodarsk (government-controlled, 57km NE of Donetsk)	4-5km SSE	Heard	2	Explosion	Undetermined	N/K	16-Oct, 20:11
	4-5km SSE	Heard	1	Explosion	Undetermined	N/K	16-Oct, 20:44
	2-3km SE	Heard	1	Burst		HMG	16-Oct, 20:45
	4-5km SE	Heard	1	Explosion	Undetermined	N/K	16-Oct, 21:03
	2-3km SE	Heard	3	Burst		HMG	16-Oct, 21:03
	4-6km WSW	Heard	1	Explosion	Undetermined	N/K	16-Oct, 21:50
	2-3km SSE	Heard	14	Burst		HMG	16-Oct, 22:10-22:12
	2-3km SSE	Heard	7	Burst		HMG	16-Oct, 22:20-22:22
	2-3km SSE	Heard	2	Explosion	Undetermined	N/K	16-Oct, 22:22
	2-3km SSE	Heard	3	Burst		HMG	16-Oct, 22:24
	2-3km SSE	Heard	5	Burst		HMG	16-Oct, 22:59-23:00
	2-3km SSE	Heard	8	Burst		HMG	16-Oct, 23:09-23:10
	2-3km SSE	Heard	18	Burst		HMG	16-Oct, 23:33-

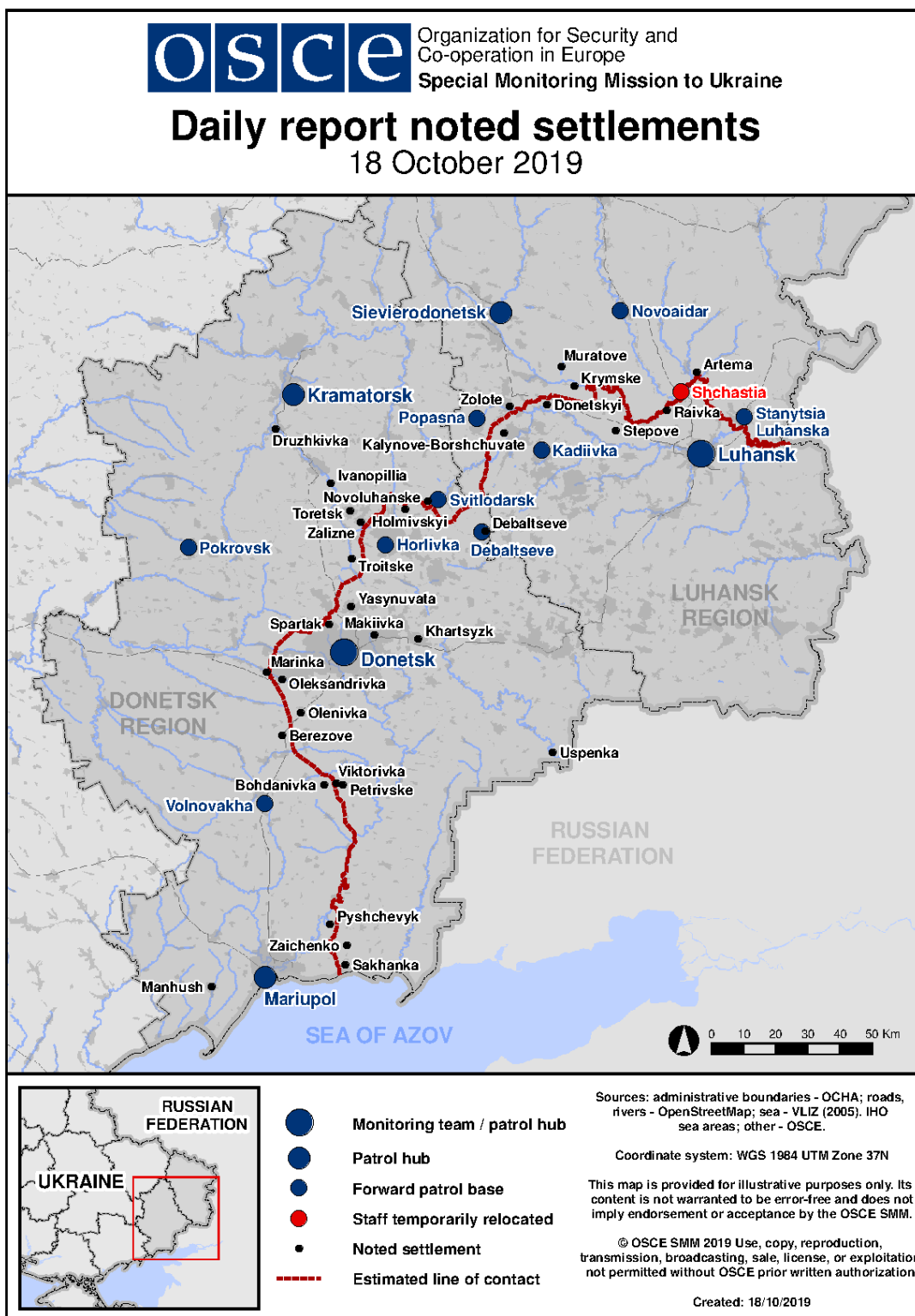
							23:36
	2-3km SSE	Heard	7	Burst		HMG	16-Oct, 22:57-22:58
	3-5km SSE	Heard	16	Explosion	Undetermined	N/K	17-Oct, 17:22-17:26
	3-5km SSE	Heard	11	Explosion	Undetermined	N/K	17-Oct, 17:28-17:32
	3-5km SSE	Heard	8	Explosion	Undetermined	N/K	17-Oct, 17:36-17:40
	3-5km SE	Heard	6	Explosion	Undetermined	N/K	17-Oct, 17:43-17:46
	3-5km ESE	Heard	3	Explosion	Undetermined	N/K	17-Oct, 17:45-17:46
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	3-5km S	Heard	1	Explosion	Undetermined	N/K	17-Oct, 09:36
	3-5km S	Heard	7	Explosion	Undetermined	N/K	17-Oct, 09:46
	3-5km S	Heard	2	Explosion	Undetermined	N/K	17-Oct, 10:58
	2-3km E	Heard	1	Explosion	Undetermined	N/K	17-Oct, 11:00
	3-5km S	Heard	2	Explosion	Undetermined	N/K	17-Oct, 11:04
	3-5km S	Heard	6	Burst		HMG	17-Oct, 14:44
W edge of Zalizne (formerly Artemove, government-controlled, 42km NE of Donetsk)	2-3km E	Heard	15	Burst		Small arms	17-Oct, 09:43
	2-3km SE	Heard and saw	1	Explosion	Undetermined	N/K	17-Oct, 10:08
	1-2km SE	Heard	4	Burst		Small arms	17-Oct, 10:13
	1-2km SE	Heard	4	Shot		Small arms	17-Oct, 10:13
	2-3km SE	Heard	1	Explosion	Undetermined	N/K	17-Oct, 10:46
	1-2km E	Heard	26	Shot		Small arms	17-Oct, 13:57-14:00
	1-2km E	Heard	21	Burst		Small arms	17-Oct, 14:06-14:08
	1-2km E	Heard	2	Explosion	Undetermined	N/K	17-Oct, 14:08
Verkhnotoretske (government-controlled, 23km NE of Donetsk)	2-3km SE	Heard	3	Explosion	Undetermined	N/K	17-Oct, 10:57-11:00
	3-4km ESE	Heard	1	Explosion	Undetermined	N/K	17-Oct, 10:08
Holmivskiyi (non-government-controlled, 49km NE of Donetsk)	4-5km E	Heard	1	Explosion	Undetermined	N/K	17-Oct, 11:14
	3-4km E	Heard	1	Explosion	Undetermined	N/K	17-Oct, 12:05
	3-4km E	Heard	2	Explosion	Undetermined	N/K	17-Oct, 12:12
	2-3km SSE	Heard	4	Burst		HMG	17-Oct, 08:52
SW edge of Novoluhanske (government-controlled, 53km NE of Donetsk)	2-3km SSE	Heard	2	Explosion	Undetermined	N/K	17-Oct, 09:01
	4-5km SE	Heard	1	Explosion	Undetermined	N/K	17-Oct, 10:01
	4-5km SE	Heard	1	Explosion	Undetermined	N/K	17-Oct, 10:08
	1-2km W	Heard	1	Burst		HMG	17-Oct, 11:08
	1-2km W	Heard	1	Explosion	Undetermined	N/K	17-Oct, 11:14
	1-2km SW	Heard	1	Burst		HMG	17-Oct, 11:58
	1-2km SW	Heard	1	Burst		HMG	17-Oct, 12:08
	1-2km SW	Heard	2	Burst		HMG	17-Oct, 12:12
	0.8-1km W	Heard	1	Burst		Small arms	17-Oct, 13:11
	1-2km W	Heard	2	Burst		Small arms	17-Oct, 13:52
	1-2km W	Heard	1	Explosion	Undetermined	N/K	17-Oct, 14:22
Zolote-4/Rodina (government-controlled, 59km W of Luhansk)					Undetermined (assessed as outside the disengagement area near Zolote)		
	5-7km S	Heard	1	Explosion		N/K	17-Oct, 10:20

	2-4km SE	Heard	1	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	17-Oct, 10:24
	3-5km S	Heard	1	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	17-Oct, 10:25
4km SW of Popasna (government-controlled, 69km W of Luhansk)	7-10km SE	Heard	13	Explosion	Outgoing	Artillery	17-Oct, 10:23-10:41
	7-10km SE	Heard	1	Explosion	Outgoing	Artillery	17-Oct, 11:00-11:01
S edge of Popasna (government-controlled, 69km W of Luhansk)	7-10km SSE	Heard	1	Explosion	Outgoing	N/K	17-Oct, 11:22-11:23
	4-6km SSE	Heard	11	Explosion	Outgoing	Artillery	17-Oct, 14:40-15:30
	3-4km SSE	Heard	8	Shot and burst		Small arms	17-Oct, 14:40-15:30
N edge of Popasna (government-controlled, 69km W of Luhansk)	10-15km SSE	Heard	2	Explosion	Outgoing	Artillery	17-Oct, 17:06-17:07
Kalynove (non-government-controlled, 60km W of Luhansk)	1-3km WNW	Heard	6	Explosion	Undetermined	N/K	17-Oct, 10:23-10:27
NE edge of Orikhove (government-controlled, 57km NW of Luhansk)	3-5km SW	Heard	9	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	17-Oct, 10:25-10:32
2.5km N of Stepove (non-government-controlled, 27km W of Luhansk)	5km WNW	Heard	5	Explosion	Undetermined	N/K	17-Oct, 10:23-10:26
	2-3km SSW	Heard	30	Shot	Outgoing	Small arms	17-Oct, 10:23-10:26
500m N of Pervomaisk (non-government-controlled, 58km W of Luhansk)	6-10km SW	Heard	1	Explosion	Undetermined	N/K	17-Oct, 11:00
	8-10km SW	Heard	3	Explosion	Undetermined	N/K	17-Oct, 12:32-12:45
1.5km SW of Molodizhne (non-government-controlled, 63km NW of Luhansk)	5-8km SSE	Heard	1	Explosion	Undetermined	N/K	17-Oct, 11:30-11:35
	4-6km S	Heard	1	Explosion	Undetermined	N/K	17-Oct, 11:30-11:35
Raivka (non-government-controlled, 16km NW of Luhansk)	5-10km SW	Heard	4	Explosion	Undetermined	N/K	17-Oct, 12:15-12:20
NE edge of Katerynivka (government-controlled, 64km W of Luhansk)	5-7km S	Heard	4	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	17-Oct, 12:33-12:46
	5-7km WSW	Heard	1	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	17-Oct, 12:32

					area near Zolote)		
1km NE of Kalynove- Borshchuvate (non-government- controlled, 61km W of Luhansk)	4-8km SSW	Heard	16	Explosion	Undetermined	N/K	17-Oct, 15:13- 15:45



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



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