

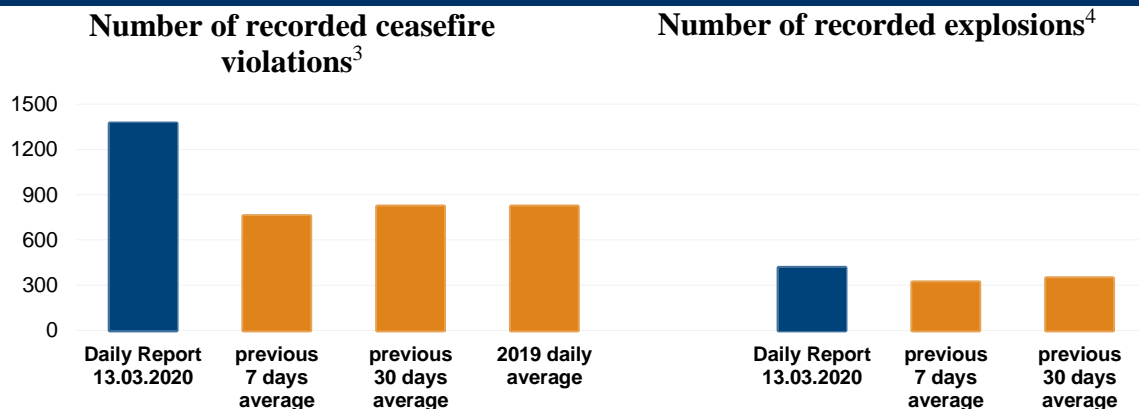
Daily Report 62/2020

14 March 2020¹

Summary

- Compared with the previous reporting period, the SMM recorded more ceasefire violations in both Donetsk and Luhansk regions.
- The SMM saw a civilian car in government-controlled Marinka that was damaged from gunfire.
- The Mission continued monitoring the disengagement areas near Stanytsia Luhanska, Zolote and Petrivske. It saw the State Emergency Service of Ukraine conducting demining activities near the disengagement area near Petrivske.
- Small-arms fire was assessed as aimed at two SMM mini-unmanned aerial vehicles.
- The Mission saw weapons in violation of withdrawal lines on both sides of the contact line, including at a former airport near non-government-controlled Peremozhne.
- The SMM saw mines, including on and near roads used by civilians, near non-government-controlled Oleksandrivka, Olenivka and Pikuzy, and near government-controlled Vodiane.
- The Mission continued observing measures at entry-exit checkpoints related to COVID-19 outbreak.
- The Mission's freedom of movement continued to be restricted, including in non-government-controlled Donetsk city, at checkpoints of the armed formations in southern Donetsk region and at a border crossing point near Dovzhanske, Luhansk region.*

Ceasefire violations²



¹ Based on information from the Monitoring Teams as of 19:30, 13 March 2020. All times are in Eastern European Time.

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

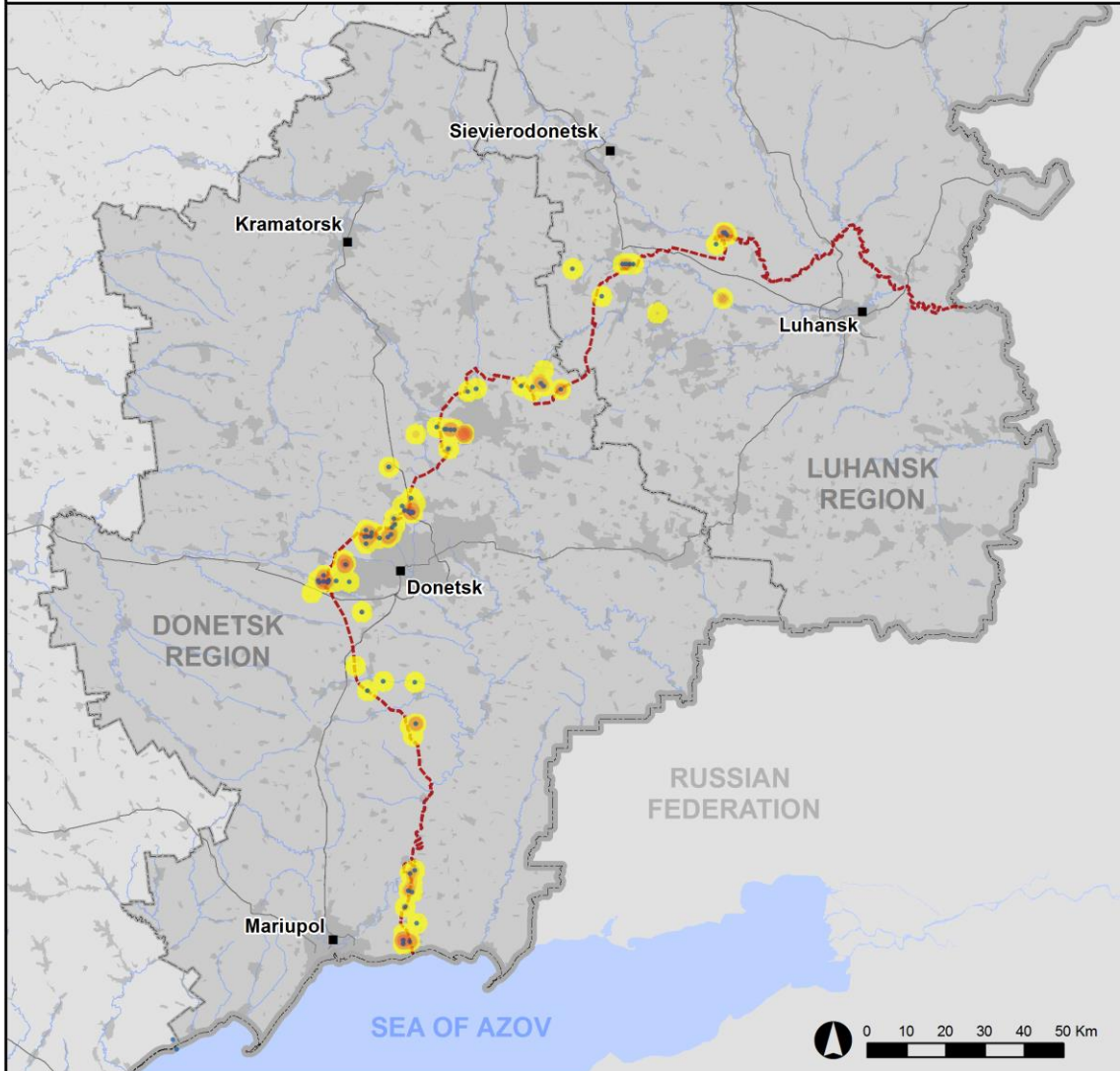
³ Including explosions.

⁴ Including from unidentified weapons.

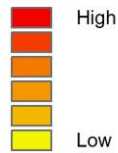
Map of recorded ceasefire violations

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

Ceasefire violations observed by the SMM 13 March 2020



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: 14/03/2020

In Donetsk region, the SMM recorded more ceasefire violations, including, more explosions (about 370), compared with [the previous reporting period](#) (about 70 explosions). The majority of the ceasefire violations were recorded at westerly directions of Horlivka (non-government-controlled, 39km north-east of Donetsk), at northerly directions of Shyrokyne (government-controlled, 100km south of Donetsk), at northerly directions of Marinka (government-controlled, 23km south-west of Donetsk), at south-westerly directions of Staromykhailivka (non-government-controlled, 15km west of Donetsk) and in areas south-west of the former Donetsk international airport (non-government-controlled). The Mission recorded 90 undetermined explosions in areas south-west of Yasynuvata (non-government-controlled, 16km north-east of Donetsk).

During the day on 13 March, while in Horlivka, the SMM heard about 170 shots and bursts of small-arms fire at an assessed range of 1-2km south-west and assessed as a live-fire exercise inside the security zone, in violation of the decision of the Trilateral Contact Group of 3 March 2016 that prohibits the conduct of live-fire training in the security zone.

In Luhansk region, the SMM recorded more ceasefire violations, including more explosions (39), compared with [the previous reporting period](#) (nine explosions). The majority of the ceasefire violations, including the majority of the explosions, were recorded in areas close to the disengagement area near Zolote (government-controlled, 60km west of Luhansk) (see below) and at south-westerly directions of Kriakivka (government-controlled, 38km north-west of Luhansk).

Civilian car in Marinka damaged from gunfire

On 13 March in Marinka, the SMM saw a white civilian car (VAZ type) with two small indentations with scratched off paint in the back right passenger door and a cracked plastic mirror cover on the same side. The Mission assessed the damage as fresh and caused by gunfire; however, it could not determine the weapon used. A man (in his seventies) told the Mission that on 7 March he had been driving in the centre of Marinka, between Prokofieva and Shevchenka Streets, when he heard the sound of the right mirror breaking, and when he stepped out of the car he saw that the back right passenger door was also damaged.

Small-arms fire assessed as aimed at two SMM mini-unmanned aerial vehicles

On 13 March, while conducting a mini-unmanned aerial vehicle (UAV) flight in Chermalyk (government-controlled, 77km south of Donetsk), the SMM heard nine bursts of small-arms fire at an assessed distance of 2.5km south, assessed as targeting the UAV, which was flying about 2.5km south of the SMM's position over areas between positions of the Ukrainian Armed Forces and of the armed formations.

On the same day, while conducting a mini-UAV flight near Khoroshe (non-government-controlled, 36km west of Luhansk), the Mission heard about 20 shots of small-arms fire at an assessed range of 1-1.5km east-south-east, assessed as targeting the UAV, which was flying about 1km south-east of the SMM's position.

In both cases, the Mission landed the UAV safely.

Disengagement areas near Stanytsia Luhanska, Zolote and Petrivske⁵

On 13 March, the SMM observed a calm situation inside the **disengagement area near Stanytsia Luhanska** (government-controlled, 16km north-east of Luhansk). During the day, the Mission saw six members of the armed formations (wearing armbands with “JCCC” written on them) between the new span of the Stanytsia Luhanska bridge (15km north-east of Luhansk) and their checkpoint south of it.

Between the evenings of 12 and 13 March, the SMM camera in Zolote recorded 24 undetermined explosions and two projectiles in flight, all at an assessed range of 1.5-6km east and assessed as outside **the disengagement area near Zolote** but within 5km of its periphery.

On 12 March, an SMM long-range UAV spotted at least one person inside the Zolote disengagement area near former defensive positions of the armed formations about 550m north-east of the area’s south-western corner. On the same day, the SMM saw four members of the armed formations (wearing armbands with “JCCC” written on them) near the southern edge of the disengagement area.

On 8 March, an SMM mini-UAV spotted a person dressed in light-coloured clothing inside a trench near a former position of the armed formations on the eastern edge of **the disengagement area near Petrivske** (non-government-controlled, 41km south of Donetsk). It spotted 29 anti-tank mines (four of which had their fuses removed) on the eastern edge of the disengagement area.

Outside the disengagement area, in a field about 200m east of its eastern edge, the same mini-UAV spotted 53 anti-tank mines (TM-62) laid out in two curved rows.⁶ About 55m east of the disengagement area’s eastern edge, the same UAV spotted [again](#) an anti-tank mine and, north of it, marks in the ground indicating probable demining activities. All aforesaid mines were assessed as belonging to the armed formations.

On the evening of 12 March, the SMM camera 2km east of Bohdanivka (government-controlled, 41km south-west of Donetsk) recorded a projectile and an illumination flare at an assessed range of 2-4km east-south-east and south-east, both assessed as inside the disengagement area. On 13 March, while positioned north of the disengagement area near Petrivske, the Mission heard five undetermined explosions and about 40 shots of heavy-machine-gun fire, all assessed as outside the disengagement area but within 5km of its periphery.

On the same day, while positioned 2km east of Bohdanivka, the SMM saw about 20 deminers of the State Emergency Service of Ukraine removing 23 anti-tank mines (22 TM-62M and one TM-62P3) from a field about 140m north-west of the disengagement area. The Mission also saw Ukrainian Armed Forces personnel laying new concrete slabs over two ditches on the road from Bohdanivka to Petrivske, which runs along the northern edge of 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.

⁶ For previous observations, see SMM Daily Reports of [16 April 2019](#) and [4 February 2020](#).

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 saw weapons in violations of their withdrawal lines, including towed and self-propelled howitzers at a former airport near Peremozhne (non-government-controlled, 19km south of Luhansk) (for further details, see the tables below).

Indications of military and military-type presence in the security zone⁷

The Mission observed infantry fighting vehicles and armoured personnel carriers in the security zone on both sides of the contact line (for further details, see the table below).

Mines near Vodiane, Pikuzy, Oleksandrivka and Olenivka

On 9 March, an SMM mid-range UAV spotted for the first time four rows of about 100 anti-tank mines in a field about 2.3km north of Vodiane (government-controlled, 94km south of Donetsk) (not visible in imagery from 30 September 2019) and about 50 anti-tank mines in a field near a road about 1.7km north-east of Vodiane. These mines were assessed as belonging to the Ukrainian Armed Forces (for previous observations, see [SMM Daily Report 9 December 2019](#)).

The same UAV spotted about 700 anti-tank mines, some of which for the first time (the Mission could not assess if these mines were recent or not), laid in several groups in fields around the northern and western edges of Pikuzy (formerly Kominternove, non-government-controlled, 92km south of Donetsk), including four anti-tank mines attached to a board laid across a local road from Pikuzy to Talakivka (government-controlled, 90km south of Donetsk). The UAV also spotted about 130 anti-tank mines in a field about 2.5km south of Pikuzy. All these mines were assessed as belonging to the armed formations.⁸ About 1.3km south-south-west of Pikuzy, the UAV also spotted for the first time a “barely visible obstacle” (in front of trenches of the armed formations and not seen in imagery from 10 January 2020) laid across the road leading to Vodiane mentioned in the paragraph above.

On 13 March, the SMM again saw at least 22 anti-tank mines laid in smaller groups in fields less than 10-50m from road H-15 south of Oleksandrivka (non-government-controlled, 20km south-west of Donetsk) as well as on the intersection with a road leading from road H-15 to Oleksandrivka. The SMM also again saw the southern end of a larger minefield (partially marked and fenced) about 9m north of road H-15 and about 400m west of the intersection (for previous observations, see [SMM Daily Report 14 March 2019](#)). The SMM [again](#) saw two anti-tank mines in the median between road lanes, about 1km south-west of a forward position of the armed formations on road H-20 near Olenivka (non-government-controlled, 23km south-west of Donetsk). Both roads are used on a daily basis by civilians and the SMM.

Measures at entry-exit checkpoints related to COVID-19 outbreak

The Mission continued to see preventive measures related to the COVID-19 outbreak being taken at the entry-exit checkpoints (EECPs). At all EECPs, the SMM saw officers of the

⁷ The hardware mentioned in this section is not proscribed by the provisions of the Minsk agreements on the withdrawal of weapons.

⁸ For previous observations, see SMM Daily Reports of [3 January 2020](#) and [10 January 2020](#).

Border Guard Service of Ukraine wearing protective masks and gloves, and measuring the temperature of civilians entering government-controlled areas.

SMM facilitation of demining and maintenance of critical civilian infrastructure

The SMM facilitated and monitored adherence to localized ceasefires to monitor demining activities in Krasnyi Yar (non-government-controlled, 12km north-east of Luhansk) as well as to enable repairs to a water supply system near Pankivka (non-government-controlled, 16km north of Luhansk) and maintenance works to the phenol sludge reservoir near Zalizne (formerly Artemove, government-controlled, 42km north-east of Donetsk).

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

Border areas outside government control

On 13 March, a member of the armed formations told the SMM to leave the area of the border crossing point near Dovzhanske (84km south-east of Luhansk) about eight minutes after its arrival.* While present, the Mission saw three cars (one with Russian Federation licence plates and two with “LPR” plates) entering Ukraine and three cars (one with Russian Federation licence plates and two with “LPR” plates) exiting Ukraine.

While at the border crossing point near Uspenka (73km south-east of Donetsk), the SMM saw about 45 covered cargo trucks, including three tankers, queuing to exit 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 Joint Centre for Control and Co-ordination should contribute to such response and co-ordinate mine clearance. Nonetheless, the armed formations in parts of Donetsk and Luhansk regions frequently deny the SMM access to areas adjacent to Ukraine’s border outside control of the Government (for example, see below). 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:

- In non-government-controlled Donetsk city, a member of the armed formations [again](#) denied the SMM access to its regular observation post at the central railway station, citing “orders from superiors”.
- 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) and Pikuzy

(formerly Kominternove, non-government-controlled, 92km south of Donetsk), citing “demining activities in the area.”

- At a checkpoint near Prymorske (non-government-controlled, 76km south of Donetsk), armed members of the armed formations denied the SMM passage towards Tavrycheske (non-government-controlled, 76km south of Donetsk), citing “ongoing engineering activities in the settlement”.
- At a checkpoint at the northern entrance of Novoazovsk (non-government-controlled, 102km south-east of Donetsk), two armed members of the armed formations denied the SMM passage towards the settlement, citing “an ongoing operation in the area”.
- At a checkpoint near Kruta Balka (non-government-controlled, 16km north of Donetsk), two armed members of the armed formations denied the SMM passage towards the pumping station near Vasylivka (non-government-controlled, 20km north of Donetsk), citing “security reasons” and “shooting and shelling in the area”.
- At a border crossing point near Dovzhanske (non-government-controlled, 84km south-east of Luhansk), a member of the armed formations told the SMM to leave the area.

Regular restrictions related to disengagement areas and mines/UXO:

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

Delay:

- At a checkpoint near Yasynuvata (non-government-controlled, 16km north-east of Donetsk), an armed member of the armed formations allowed the SMM to proceed only after approximately 35 minutes of waiting.

Other impediments:

- While conducting mini-UAVs flights in Chermalyk (government-controlled, 77km south of Donetsk) and near Khoroshe (non-government-controlled, 36km west-north-west of Luhansk), the SMM heard shots and bursts of small-arms fire assessed as directed at the UAVs (see above)
- Two SMM mini-UAVs experienced GPS signal interference, assessed as caused by probable jamming: on two occasions while flying near Hranitne (government-controlled, 60km south of Donetsk), and once while flying over areas near Chermalyk (see also above).⁹

⁹ The interference could have originated from anywhere within the radius of kilometres from the UAVs’ positions.

Table of weapons

Weapons in violation of the withdrawal lines

Date	No. of weapons	Type of weapon	Location	Source of observation
Government-controlled areas				
13/03/2020	9	Tank (T-64)	Heading south-west near Bobrove (56km north-west of Luhansk)	Patrol
	1	Surface-to-air missile system (9K33 <i>Osa</i>)	In residential areas of Teple (31km north of Luhansk)	
	1	Multiple launch rocket system (9K51, BM-21 <i>Grad</i> , 122mm)	Heading west in Poltavka (54km north-west of Donetsk)	
Non-government-controlled areas				
12/03/2020	2	Self-propelled howitzer (one 2S3 <i>Akatsiya</i> , 152mm and one 2S1 <i>Gvozdika</i> , 122mm)	At a former airport near Peremozhne (19km south of Luhansk)	Long-range UAV
	3	Towed howitzer (one 2A65 <i>Msta-B</i> , 152mm; one D-30 <i>Lyagushka</i> , 122mm; and one D-20, 152mm)		
	1	Multiple launch rocket system (BM-21)		
	1	Anti-tank gun (MT-12 <i>Rapira</i> , 100mm)		
	2	Self-propelled howitzer (2S1)	In a training area near Ternove (57km east of Donetsk)	

Beyond withdrawal lines but outside designated storage sites

Date	No. of weapons	Type of weapon	Location	Source of observation
Government-controlled areas				
13/03/2020	1	Towed howitzer (2A36 <i>Giatsint-B</i> , 152mm)	In Azovske (121km south of Donetsk)	Patrol
	9	Self-propelled howitzers (2S3)	At a train station in Druzhkivka (72km north of Donetsk)	
Non-government-controlled areas				
12/03/2020	2	Tank (one T-72 and one T-64)	At a former airport near Peremozhne (see above)	Long-range UAV
	2	Mortar (one 2B11 <i>Sani</i> , 120mm and one 2B14 <i>Podnos</i> , 82mm)		
	1	Towed mortar (2B9 <i>Vasilek</i> , 82mm)		
	1	Surface-to-air missile system (9K35 <i>Strela-10</i>)		
	21	Tank (type undetermined)	In a training area near Ternove (see above)	

Table of military and military-type presence in the security zone¹⁰

Date	No.	Type	Location	Source of observation
Government-controlled areas				
12/03/2020	17	Infantry fighting vehicle (BMP variant)	Near Keramik (28km north-west of Donetsk)	Long-range UAV
13/03/2020	1	Armoured reconnaissance vehicle (BRDM-2)	Near Nyzhnoteple (26km north of Luhansk)	Patrol
	1	Armoured personnel carrier (MT-LB)	Near Bobrove (see above)	
Non-government-controlled areas				
8/03/2020	2	Armoured personnel carriers (a BTR-80 and a MT-LB)	In Petrivske (41km south of Donetsk) (about 1.5km east of the disengagement area)	Mini-UAV
13/03/2020	3	Infantry fighting vehicles (BMP variant)	Near Dovhe (22km north-west of Luhansk)	Patrol

¹⁰ 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 13 March 2020¹¹

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera in Avdiivka (government-controlled, 17km N of Donetsk)	3-6km E	Recorded	2	Projectile	In vertical flight	N/K	12-Mar, 19:47
	3-6km E	Recorded	7	Projectile	In vertical flight	N/K	12-Mar, 19:52
	4-6km ENE	Recorded	1	Projectile	In vertical flight	N/K	12-Mar, 21:10
	2-4km ESE	Recorded	1	Muzzle flash		N/K	12-Mar, 23:19
	2-4km ESE	Recorded	1	Projectile	NNE to SSW (subsequent to previous event)	N/K	12-Mar, 23:19
	2-4km ESE	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	12-Mar, 23:19
	3-5km ESE	Recorded	1	Explosion	Undetermined	N/K	13-Mar, 01:20
	2-4km ESE	Recorded	1	Explosion	Airburst	N/K	13-Mar, 17:06
SMM camera in Berezove (government-controlled, 31km SW of Donetsk)	2-5km SE	Recorded	1	Illumination flare	In vertical flight	N/K	12-Mar, 20:43
	2-5km SE	Recorded	2	Illumination flare	In vertical flight	N/K	13-Mar, 00:53
	2-5km SE	Recorded	1	Illumination flare	In vertical flight	N/K	13-Mar, 00:58
SMM camera 2km E of Bohdanivka (government-controlled, 41km SW of Donetsk)	2-4km ESE	Recorded	1	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	12-Mar, 19:50
	2-4km SE	Recorded	1	Illumination flare	In vertical flight (assessed as inside the disengagement area near Petrivske)	N/K	12-Mar, 20:43
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	2-5km SE	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 21:31
	3-6km SSE	Recorded	4	Projectile	NNE to SSW	N/K	12-Mar, 21:37
	2-5km SSE	Recorded	1	Projectile	NE to SW	N/K	12-Mar, 21:40
	2-5km SSE	Recorded	4	Projectile	NNE to SSW	N/K	12-Mar, 21:40
	2-5km SSE	Recorded	2	Projectile	NE to SW	N/K	12-Mar, 21:46
	2-5km SE	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 21:55
	2-5km SE	Recorded	2	Projectile	SW to NE	N/K	13-Mar, 01:03
	2-5km SE	Recorded	4	Projectile	WSW to ENE	N/K	13-Mar, 01:03
	2-5km SE	Recorded	3	Projectile	WSW to ENE	N/K	13-Mar, 01:04
	2-5km SSE	Recorded	1	Explosion	Airburst	N/K	13-Mar, 01:15
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	1-2km S	Recorded	1	Projectile	NE to SW	N/K	12-Mar, 19:53

¹¹ The table only includes ceasefire violations directly observed by the SMM patrols or recorded by the SMM cameras 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 technical monitoring officers, 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 technical limitations and/or other considerations. Ceasefire violations recorded by more than one patrol/camera and assessed to be the same are entered only once.

SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk)	3-5km SE	Recorded	4	Projectile	WSW to ENE	N/K	12-Mar, 21:41
	3-5km SE	Recorded	3	Explosion	Impact (subsequent to previous event)	N/K	12-Mar, 21:41
	3-5km SE	Recorded	1	Projectile	WSW to ENE	N/K	12-Mar, 21:42
	3-5km SE	Recorded	1	Projectile	WSW to ENE	N/K	12-Mar, 21:43
	3-5km SE	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	12-Mar, 21:43
SMM camera at entry-exit checkpoint in Hnutove (government-controlled, 84km S of Donetsk)	2-4km ENE	Recorded	3	Projectile	NNE to SSW	N/K	12-Mar, 20:14
	2-4km ENE	Recorded	4	Projectile	NNE to SSW	N/K	12-Mar, 20:17
	2-4km ESE	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 20:31
	1-3km ESE	Recorded	3	Projectile	NNE to SSW (one subsequent to previous event)	N/K	12-Mar, 20:31
	1-3km ESE	Recorded	8	Projectile	NNE to SSW	N/K	12-Mar, 20:32
	1-3km ESE	Recorded	5	Projectile	NNE to SSW	N/K	12-Mar, 20:34
	1-3km ESE	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 20:34
	1-3km ESE	Recorded	2	Projectile	NNE to SSW	N/K	12-Mar, 20:35
	1-3km ESE	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 20:35
	2-4km ENE	Recorded	2	Projectile	NNE to SSW	N/K	12-Mar, 21:37
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	2-4km ENE	Recorded	2	Projectile	NNE to SSW	N/K	12-Mar, 21:40
	1-3km ESE	Recorded	3	Projectile	W to E	N/K	12-Mar, 21:40
	3-5km E	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 19:58
	3-5km E	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 21:00
	1-3km ESE	Recorded	3	Projectile	SE to NW	N/K	12-Mar, 23:01
	1-3km ESE	Recorded	1	Projectile	SE to NW	N/K	12-Mar, 23:17
	1-3km ESE	Recorded	1	Explosion	Undetermined		13-Mar, 00:07
SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)	3-5km E	Recorded	1	Projectile	NW to SE	N/K	13-Mar, 18:19
	2-4km NNE	Recorded	1	Projectile	WSW to ENE	N/K	12-Mar, 22:08
	2-4km N	Recorded	1	Projectile	WSW to ENE	N/K	12-Mar, 22:17
	3-6km N	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 22:17
	3-6km N	Recorded	1	Muzzle flash		N/K	12-Mar, 22:18
	3-6km N	Recorded	3	Projectile	WSW to ENE (one subsequent to previous event)	N/K	12-Mar, 22:18
	3-6km N	Recorded	6	Projectile	WSW to ENE	N/K	12-Mar, 22:18
	3-6km NE	Recorded	3	Explosion	Impact (subsequent to previous event)	N/K	12-Mar, 22:18-22:19
	3-6km N	Recorded	2	Muzzle flash		N/K	12-Mar, 22:19
	3-6km N	Recorded	6	Projectile	WSW to ENE	N/K	12-Mar, 22:19
	3-6km N	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 22:19
	3-6km N	Recorded	7	Projectile	WSW to ENE	N/K	12-Mar, 22:19
	2-5km N	Recorded	1	Muzzle flash		N/K	12-Mar, 22:20
	2-4km N	Recorded	4	Projectile	WSW to ENE	N/K	12-Mar, 22:20
	2-5km N	Recorded	5	Projectile	WSW to ENE	N/K	12-Mar, 22:20
	2-5km NNE	Recorded	1	Explosion	Impact	N/K	12-Mar, 22:20
	2-5km NNE	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 22:20
	2-5km NNW	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 22:20
	2-4km N	Recorded	2	Muzzle flash		N/K	12-Mar, 22:21
	2-4km N	Recorded	5	Projectile	WSW to ENE	N/K	12-Mar, 22:21
2-4km N	Recorded	2	Projectile	W to E	N/K	12-Mar, 22:21	
2-4km NNE	Recorded	1	Explosion	Impact (subsequent to	N/K	12-Mar, 22:21	

					previous event)		
	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 22:21
	2-4km NNE	Recorded	1	Explosion	Impact	N/K	12-Mar, 22:22
	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 22:22
	2-4km W	Recorded	1	Muzzle flash		N/K	12-Mar, 22:22
	2-4km N	Recorded	6	Projectile	W to E (one subsequent to previous event)	N/K	12-Mar, 22:22
	2-4km N	Recorded	2	Projectile	W to E	N/K	12-Mar, 22:23
	2-4km N	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 22:23
	2-4km N	Recorded	1	Muzzle flash		N/K	12-Mar, 22:23
	2-4km N	Recorded	1	Projectile	WSW to ENE	N/K	12-Mar, 22:23
	2-4km N	Recorded	1	Projectile	W to E	N/K	12-Mar, 22:24
	2-4km N	Recorded	7	Projectile	WSW to ENE	N/K	12-Mar, 22:24
	2-4km N	Recorded	30	Projectile	W to E	N/K	12-Mar, 22:24
	2-4km N	Recorded	1	Muzzle flash		N/K	12-Mar, 22:24
	2-4km N	Recorded	8	Projectile	W to E	N/K	12-Mar, 22:25
	2-4km N	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 22:25
	2-4km N	Recorded	9	Projectile	W to E	N/K	12-Mar, 22:26
	2-4km NNE	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	12-Mar, 22:26
	2-4km N	Recorded	16	Projectile	W to E	N/K	12-Mar, 22:27
	2-4km N	Recorded	1	Muzzle flash		N/K	12-Mar, 22:27
	2-4km N	Recorded	1	Projectile	WSW to ENE (subsequent to previous event)	N/K	12-Mar, 22:27
	2-4km N	Recorded	16	Projectile	W to E	N/K	12-Mar, 22:28
	2-4km NNE	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	12-Mar, 22:28
	2-4km N	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 22:28
	2-4km N	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	12-Mar, 22:28
	2-4km NNW	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 22:29
	2-4km N	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 22:30
	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 22:30
	2-4km N	Recorded	1	Projectile	NW to SE	N/K	12-Mar, 22:31
	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 22:32
	2-4km NNW	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 22:32
	2-4km NNE	Recorded	2	Explosion	Undetermined	N/K	12-Mar, 22:34
	2-4km N	Recorded	5	Projectile	W to E	N/K	12-Mar, 22:34
	2-4km N	Recorded	1	Projectile	WSW to ENE	N/K	12-Mar, 22:35
	2-4km N	Recorded	1	Projectile	WSW to ENE	N/K	12-Mar, 22:36
	2-4km N	Recorded	1	Projectile	WSW to ENE	N/K	12-Mar, 22:37
	2-4km N	Recorded	1	Projectile	W to E	N/K	12-Mar, 22:38
	2-4km NNW	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 22:39
	2-4km NNE	Recorded	1	Muzzle flash		N/K	12-Mar, 22:39
	2-4km N	Recorded	3	Projectile	W to E	N/K	12-Mar, 22:39
	2-4km NNW	Recorded	2	Explosion	Undetermined	N/K	12-Mar, 22:40
	2-4km N	Recorded	2	Projectile	W to E	N/K	12-Mar, 22:40
	2-4km N	Recorded	1	Projectile	WSW to ENE	N/K	12-Mar, 22:40
SMM camera at Oktiabr mine (non-	4-6km W	Recorded	1	Muzzle flash		N/K	12-Mar, 19:03
	3-5km W	Recorded	2	Explosion	Undetermined	N/K	12-Mar, 19:24
	3-6km W	Recorded	1	Projectile	NNE to SSW	N/K	12-Mar, 19:28

government-controlled, 9km NW of Donetsk city centre)	3-6km WNW	Recorded	2	Projectile	S to N	N/K	12-Mar, 19:29	
	1-3km WNW	Recorded	2	Projectile	NW to SE	N/K	12-Mar, 19:31	
	2-4km WNW	Recorded	4	Projectile	S to N	N/K	12-Mar, 19:31	
	2-4km WNW	Recorded	1	Muzzle flash		N/K	12-Mar, 19:31	
	0.5-1km WSW	Recorded	1	Explosion	Impact	N/K	12-Mar, 19:31	
	3-5km W	Recorded	2	Projectile	N to S	N/K	12-Mar, 19:32	
	3-5km W	Recorded	5	Projectile	S to N	N/K	12-Mar, 19:32	
	3-5km W	Recorded	5	Projectile	S to N	N/K	12-Mar, 19:33	
	3-5km W	Recorded	1	Muzzle flash	W to E	N/K	12-Mar, 19:33	
	3-6km WSW	Recorded	3	Projectile	SSE to NNW	N/K	12-Mar, 19:34	
	3-6km WNW	Recorded	1	Projectile	NNE to SSW	N/K	12-Mar, 19:35	
	3-6km WSW	Recorded	2	Explosion	Undetermined	N/K	12-Mar, 19:35	
	3-6km WSW	Recorded	7	Projectile	SSE to NNW	N/K	12-Mar, 19:35	
	3-6km W	Recorded	2	Explosion	Airburst	N/K	12-Mar, 19:35	
	3-6km W	Recorded	1	Projectile	NNW to SSE	N/K	12-Mar, 19:36	
	3-6km W	Recorded	1	Projectile	NNE to SSW	N/K	12-Mar, 19:37	
	3-6km WNW	Recorded	3	Projectile	S to N	N/K	12-Mar, 19:38	
	3-6km WNW	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 19:38	
	3-6km WNW	Recorded	7	Projectile	S to N	N/K	12-Mar, 19:39	
	3-6km W	Recorded	5	Projectile	S to N	N/K	12-Mar, 19:39	
	3-6km W	Recorded	3	Muzzle flash		N/K	12-Mar, 19:39	
	3-6km W	Recorded	8	Projectile	S to N	N/K	12-Mar, 19:40	
	2-4km WNW	Recorded	2	Projectile	S to N	N/K	12-Mar, 19:41	
	2-4km WNW	Recorded	2	Explosion	Undetermined	N/K	12-Mar, 19:41	
	2-4km W	Recorded	4	Projectile	S to N	N/K	12-Mar, 19:42	
	2-4km W	Recorded	4	Explosion	Undetermined	N/K	12-Mar, 19:42	
	2-4km W	Recorded	3	Burst	S to N	N/K	12-Mar, 19:42	
	2-4km WNW	Recorded	2	Projectile	S to N	N/K	12-Mar, 19:43	
	3-5km W	Recorded	1	Illumination flare	In vertical flight	N/K	12-Mar, 19:47	
	2-4km W	Recorded	1	Illumination flare	N to S	N/K	12-Mar, 19:49	
	2-4km W	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 19:54	
	2-4km W	Recorded	1	Muzzle flash		N/K	12-Mar, 19:59	
	2-4km W	Recorded	1	Projectile	SE to NW	N/K	12-Mar, 19:59	
	2-4km W	Recorded	1	Illumination flare	In vertical flight	N/K	12-Mar, 20:01	
	3-4km WNW	Recorded	5	Projectile	S to N	N/K	12-Mar, 20:09	
	3-4km WNW	Recorded	1	Projectile	SSE to NNW	N/K	12-Mar, 20:09	
	3-4km W	Recorded	1	Projectile	SSE to NNW	N/K	12-Mar, 20:13	
	3-4km W	Recorded	1	Muzzle flash		N/K	12-Mar, 20:13	
	3-4km W	Recorded	2	Muzzle flash		N/K	12-Mar, 20:14	
	4-5km NE	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 23:04	
	3-4km NE	Recorded	1	Projectile	NNE to SSW	N/K	12-Mar, 23:19	
	3-4km NE	Recorded	2	Explosion	Undetermined (one subsequent to previous event)	N/K	12-Mar, 23:19	
	4-5km NE	Recorded	1	Burst	SE to NW	N/K	12-Mar, 23:46	
	4-5km NE	Recorded	1	Explosion	Undetermined	N/K	13-Mar, 04:15	
	SMM camera 1km SW of Shyrokyne (government-controlled, 100km S of Donetsk)	2-5km N	Recorded	4	Projectile	E to W	N/K	12-Mar, 19:05
		2-5km N	Recorded	4	Projectile	E to W	N/K	12-Mar, 19:11
		3-5km N	Recorded	2	Projectile	E to W	N/K	12-Mar, 19:26
3-5km N		Recorded	5	Projectile	E to W	N/K	12-Mar, 19:27	
3-5km N		Recorded	1	Projectile	E to W	N/K	12-Mar, 19:28	
3-5km N		Recorded	2	Projectile	E to W	N/K	12-Mar, 19:31	
2-5km N		Recorded	4	Explosion	Undetermined	N/K	12-Mar, 19:48	
2-5km N		Recorded	2	Projectile	E to W	N/K	12-Mar, 19:48	
2-5km N		Recorded	1	Explosion	Undetermined	N/K	12-Mar, 19:49	
4-5km N		Recorded	1	Explosion	Undetermined	N/K	12-Mar, 21:03	

	4-5km N	Recorded	2	Projectile	E to W	N/K	12-Mar, 21:11
	4-5km N	Recorded	1	Projectile	W to E	N/K	12-Mar, 21:41
	4-5km N	Recorded	1	Projectile	W to E	N/K	12-Mar, 21:42
	4-5km N	Recorded	1	Projectile	W to E	N/K	12-Mar, 21:42
	4-5km N	Recorded	2	Projectile	W to E	N/K	12-Mar, 21:43
	4-5km N	Recorded	1	Explosion	Subsequent to previous event	N/K	12-Mar, 21:43
	4-5km N	Recorded	3	Projectile	E to W	N/K	12-Mar, 21:44
	4-5km N	Recorded	2	Projectile	E to W	N/K	12-Mar, 21:47
	4-5km N	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 21:48
	4-5km N	Recorded	8	Projectile	E to W	N/K	12-Mar, 22:17
	4-5km N	Recorded	2	Projectile	E to W	N/K	12-Mar, 22:27
	4-5km N	Recorded	8	Projectile	E to W	N/K	12-Mar, 22:28
	4-5km NNE	Recorded	5	Projectile	ESE to WNW	N/K	12-Mar, 22:51
	4-5km NNE	Recorded	8	Projectile	ESE to WNW	N/K	12-Mar, 22:52
	4-5km N	Recorded	7	Projectile	E to W	N/K	12-Mar, 23:12
	4-5km N	Recorded	10	Projectile	E to W	N/K	12-Mar, 23:14
	4-5km N	Recorded	6	Projectile	E to W	N/K	12-Mar, 23:16
	4-5km NNE	Recorded	4	Projectile	W to E	N/K	12-Mar, 23:16
	4-5km N	Recorded	12	Projectile	E to W	N/K	12-Mar, 23:17
	4-5km N	Recorded	1	Muzzle flash		N/K	12-Mar, 23:17
	4-5km N	Recorded	9	Projectile	E to W	N/K	12-Mar, 23:18
	4-5km NNE	Recorded	1	Projectile	ESE to WNW	N/K	12-Mar, 23:18
	4-5km N	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 23:20
	4-5km NNE	Recorded	6	Projectile	ESE to WNW	N/K	12-Mar, 23:23
	4-5km N	Recorded	10	Projectile	E to W	N/K	12-Mar, 23:25
	4-5km N	Recorded	2	Projectile	ESE to WNW	N/K	12-Mar, 23:44
	4-5km NNE	Recorded	19	Projectile	ESE to WNW	N/K	12-Mar, 23:44
	4-5km NNE	Recorded	1	Muzzle flash		N/K	12-Mar, 23:44
	4-5km NNE	Recorded	1	Projectile	W to E	N/K	12-Mar, 23:49
	4-5km NNE	Recorded	1	Burst	E to W	N/K	12-Mar, 23:52
	4-5km NNE	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 23:57
	4-5km NNE	Recorded	1	Projectile	E to W	N/K	12-Mar, 23:57
	4-5km N	Recorded	11	Projectile	E to W	N/K	13-Mar, 00:05
	4-5km N	Recorded	9	Projectile	E to W	N/K	13-Mar, 00:07
	4-5km N	Recorded	3	Projectile	E to W	N/K	13-Mar, 00:08
	4-5km N	Recorded	9	Projectile	E to W	N/K	13-Mar, 00:09
	4-5km NNE	Recorded	2	Projectile	ESE to WNW	N/K	13-Mar, 00:18
	5-7km N	Recorded	2	Projectile	E to W	N/K	13-Mar, 18:21
SMM camera in Svitlodarsk (government-controlled, 57km NE of Donetsk)	2-4km ENE	Recorded	1	Projectile	NW to SE	N/K	12-Mar, 20:39
	2-4km ENE	Recorded	1	Projectile	NW to SE	N/K	12-Mar, 20:41
	2-4km ENE	Recorded	1	Projectile	NW to SE	N/K	12-Mar, 20:42
	2-4km ENE	Recorded	2	Projectile	NW to SE	N/K	12-Mar, 20:50
	3-5km SW	Recorded	1	Explosion	Undetermined		13-Mar, 18:44
800m NNE of Debaltseve (non-government-controlled, 58km NE of Donetsk)	8-10km NW	Heard	27	Explosion	Undetermined	N/K	12-Mar, 20:15-21:10
About 2km S of Avdiivka (government-controlled, 17km N of Donetsk)	2-4km E	Heard	1	Explosion	Undetermined	N/K	13-Mar, 11:15
	2-4km E	Heard	1	Explosion	Undetermined	N/K	13-Mar, 11:21
	2-4km E	Heard	1	Explosion	Undetermined	N/K	13-Mar, 11:28
1.7km E of Avdiivka (government-controlled, 17km N of Donetsk)	2-4km E	Heard	2	Explosion	Undetermined	N/K	13-Mar, 12:33
	2-4km E	Heard	2	Explosion	Undetermined	N/K	13-Mar, 12:36
About 1km NW of the railway station of	2-3km SW	Heard	42	Explosion	Undetermined	N/K	13-Mar, 09:12
	2-4km SW	Heard	23	Explosion	Undetermined	N/K	13-Mar, 09:25

Yasynuvata (non-government-controlled, 16km NE of Donetsk)	2-3km SW	Heard	2	Explosion	Undetermined	N/K	13-Mar, 09:55
	2-4km SW	Heard	8	Explosion	Undetermined	N/K	13-Mar, 10:05
	2-3km SW	Heard	15	Explosion	Undetermined	N/K	13-Mar, 10:20
About 1.5km NW of Yasynuvata (non-government-controlled, 16km NE of Donetsk)	1-2km W	Heard	1	Shot		Small arms	13-Mar, 08:55
	1-2km W	Heard	2	Burst		Small arms	13-Mar, 08:55
About 700m SE of Kruta Balka (non-government-controlled, 16km N of Donetsk)	3-4km SSW	Heard	2	Explosion	Undetermined	N/K	13-Mar, 10:56
Donetsk central railway station (non-government-controlled, 6km NW of Donetsk)	1-2km NW	Heard	43	Explosion	Undetermined	N/K	13-Mar, 09:18-09:33
About 3km SW of Donetsk central railway station (non-government-controlled, 6km NW of Donetsk)	2-3km W	Heard	13	Explosion	Undetermined	N/K	13-Mar, 10:06-10:36
	2-3km W	Heard	11	Explosion	Undetermined	N/K	13-Mar, 10:43-11:02
About 1km S of Olenivka (non-government-controlled, 23km SW of Donetsk)	6-8km N	Heard	8	Explosion	Undetermined	N/K	13-Mar, 13:43-14:00
Staromykhailivka (non-government-controlled, 15km W of Donetsk)	5-6km S	Heard	1	Explosion	Undetermined	N/K	13-Mar, 10:03
	2-3km SW	Heard	10	Burst		Small arms	13-Mar, 10:12
	2-3km SW	Heard	5	Shot		Small arms	13-Mar, 10:12
	1-2km SW	Heard	8	Burst		Anti-aircraft gun (ZU-23, 23mm)	13-Mar, 10:17-10:23
	1-2km SW	Heard	3	Explosion	Undetermined	N/K	13-Mar, 10:17-10:23
	1-2km SW	Heard	12	Shot	Undetermined	Cannon (30mm)	13-Mar, 10:20-10:23
	1-2km SW	Heard	10	Burst		Anti-aircraft gun (ZU-23, 23mm)	13-Mar, 10:25-10:26
	1-2km SW	Heard	4	Explosion	Impact	N/K	13-Mar, 10:25-10:27
	1-2km SW	Heard	7	Burst	Outgoing	Anti-aircraft gun (ZU-23, 23mm)	13-Mar, 10:28
	1-2km SW	Heard	26	Shot	Outgoing	Cannon (30mm)	13-Mar, 10:26-10:29
	1-2km SW	Heard	1	Explosion	Impact	N/K	13-Mar, 10:30
	1-2km SW	Heard	1	Shot	Outgoing	Cannon (30mm)	13-Mar, 10:30
	1-2km SW	Heard	1	Explosion	Impact	N/K	13-Mar, 10:37
	1-2km SW	Heard	1	Explosion	Impact	N/K	13-Mar, 10:48-10:55
1-2km SW	Heard	3	Burst		HMG	13-Mar, 10:48-10:55	

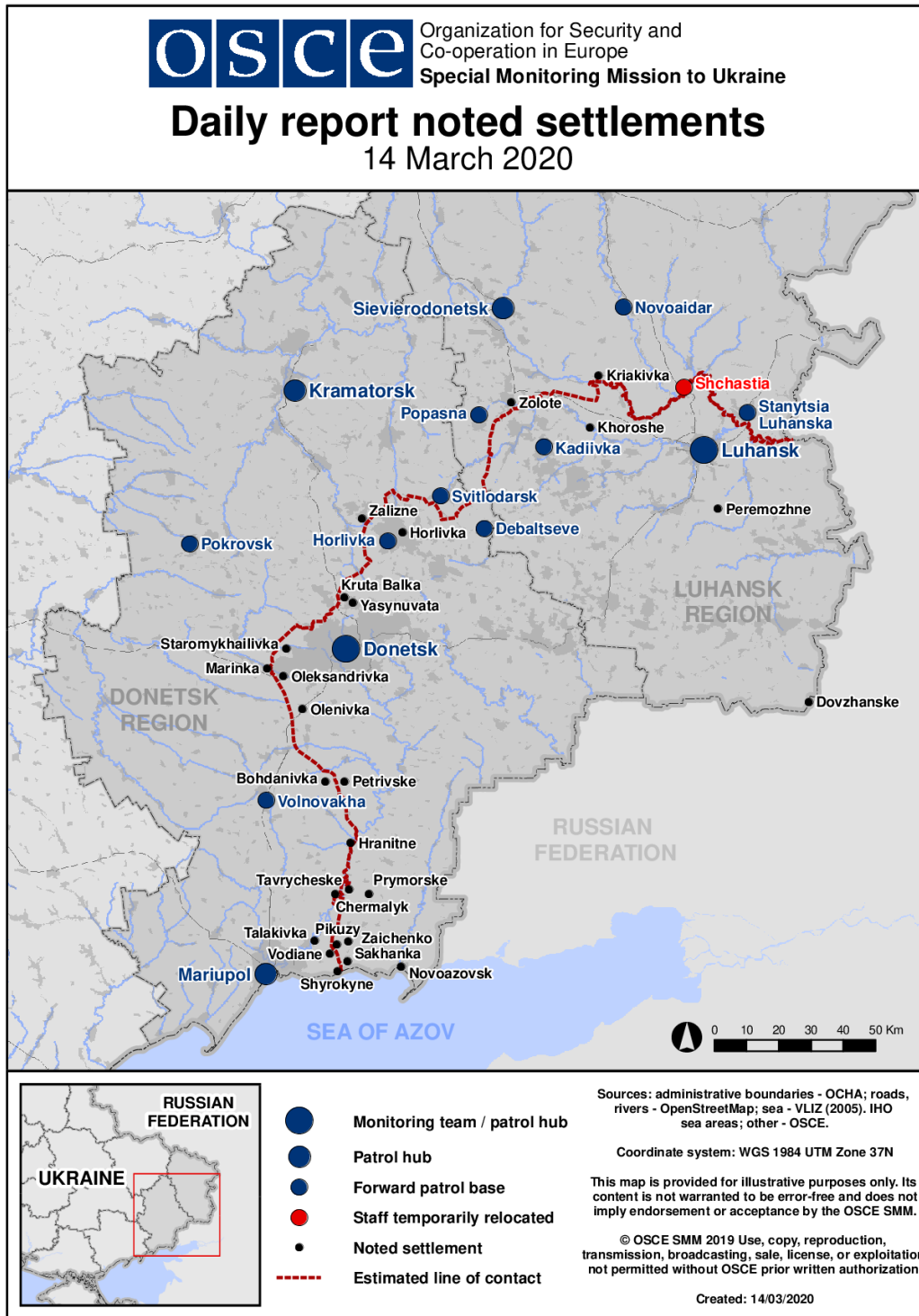
	1-2km SW	Heard	2	Shot		Small arms	13-Mar, 10:48-10:55
	1-2km W	Heard	13	Burst		HMG	13-Mar, 10:48-10:55
	1-2km W	Heard	11	Shot		Small arms	13-Mar, 10:48-10:55
About 2.5km SE of Spartak (non-government-controlled, 9km north of Donetsk)	4-5km NW	Heard	11	Explosion	Undetermined	N/K	13-Mar, 13:35-14:03
1.8km N of Petrivske (non-government-controlled, 41km S of Donetsk)	2km S	Heard	15	Shot	Assessed as outside the disengagement area	HMG	13-Mar, 12:15-12:18
	2km S	Heard	5	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	13-Mar, 12:38-12:40
	2km S	Heard	28	Shot	Assessed as outside the disengagement area	HMG	13-Mar, 12:38-12:40
1.8km E of Bohdanivka (government-controlled, 41km SW of Donetsk)	10-12km NNW	Heard	3	Explosion	Undetermined	N/K	13-Mar, 09:18-09:23
	10-12km NNW	Heard	1	Explosion	Undetermined	N/K	13-Mar, 09:49
1.4km E of Bohdanivka (government-controlled, 41km SW of Donetsk)	10-12km NW	Heard	2	Explosion	Undetermined	N/K	13-Mar, 10:38-10:41
	10-12km NW	Heard	2	Explosion	Undetermined	N/K	13-Mar, 10:51-10:52
	10-12km NNE	Heard	4	Explosion	Undetermined	N/K	13-Mar, 13:24-13:26
Babakh-Tarama (government-controlled, 134km SW of Donetsk)	3-4km SW	Heard	4	Explosion	Undetermined (assessed as live-fire training exercise)	N/K	13-Mar, 10:23
SSE part of Babakh-Tarama (government-controlled, 134km SW of Donetsk)	3-4km W	Heard	4	Explosion	Undetermined (assessed as live-fire training exercise)	N/K	13-Mar, 10:34-10:35
	3-4km W	Heard	3	Explosion	Undetermined (assessed as live-fire training exercise)	N/K	13-Mar, 10:56-11:04
Zaichenko (non-government-controlled, 93km S of Donetsk)	2-3km SSW	Heard	3	Explosion	Undetermined	N/K	13-Mar, 11:30
Chermalyk (government-controlled, 77km S of Donetsk)	2.5km S	Heard	9	Burst	Assessed as aimed at the mini-UAV	Small arms	13-Mar, 11:38
Horlivka (non-government-controlled, 39km NE of Donetsk)	4-5km W	Heard	3	Burst		HMG	12-Mar, 19:19
	4-5km W	Heard	2	Explosion	Undetermined	N/K	12-Mar, 19:47
	4-5km W	Heard	32	Burst		HMG	12-Mar, 19:47-19:49
	4-5km W	Heard	2	Explosion	Undetermined	N/K	12-Mar, 19:53
	3-4km W	Heard	1	Explosion	Undetermined	N/K	12-Mar, 19:53

	4-5km W	Heard	3	Burst		HMG	12-Mar, 19:53
	5-7km W	Heard	2	Explosion	Undetermined	N/K	12-Mar, 19:56
	4-5km W	Heard	3	Burst		HMG	12-Mar, 19:59
	5-6km W	Heard	1	Explosion	Undetermined	N/K	12-Mar, 20:10
	4-5km W	Heard	1	Explosion	Undetermined	N/K	12-Mar, 21:21
	4-5km W	Heard	1	Explosion	Undetermined	N/K	12-Mar, 22:27
	4-5km W	Heard	2	Burst		HMG	13-Mar, 02:11
	5-6km W	Heard	1	Explosion	Undetermined	N/K	13-Mar, 06:31
	1-2km SW	Heard	67	Burst	Assessed as live-fire training exercise	Small arms	13-Mar, 09:13-09:17
	1-2km SW	Heard	12	Burst	Assessed as live-fire training exercise	Small arms	13-Mar, 09:21
	1-2km SW	Heard	24	Shot	Assessed as live-fire training exercise	Small arms	13-Mar, 09:25
	1-2km SW	Heard	54	Burst	Assessed as live-fire training exercise	Small arms	13-Mar, 09:34-10:09
	1-2km SW	Heard	11	Shot	Assessed as live-fire training exercise	Small arms	13-Mar, 09:34-10:09
	6-8km SW	Heard	9	Explosion	Undetermined	N/K	13-Mar, 10:15-12:07
W edge of Horlivka (non-government-controlled, 39km NE of Donetsk)	4-6km SW	Heard	1	Explosion	Undetermined	N/K	13-Mar, 10:56
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	5-7km NW	Heard	2	Explosion	Undetermined	N/K	13-Mar, 10:15
	5-7km NW	Heard	1	Explosion	Undetermined	N/K	13-Mar, 10:44
	5-7km NW	Heard	1	Explosion	Undetermined	N/K	13-Mar, 10:55
	5-7km NW	Heard	2	Explosion	Undetermined	N/K	13-Mar, 12:26
	5-7km NW	Heard	3	Explosion	Undetermined	N/K	13-Mar, 12:32
	5-7km NW	Heard	2	Explosion	Undetermined	N/K	13-Mar, 12:52
	5-7km NW	Heard	2	Explosion	Undetermined	N/K	13-Mar, 13:10
Svitlodarsk (government-controlled, 57km NE of Donetsk)	3-5km SE	Heard	1	Explosion	Undetermined	N/K	12-Mar, 18:36
	1-3km SE	Heard	13	Shot		Small arms	12-Mar, 18:38
	3-5km S	Heard	3	Burst		HMG	12-Mar, 18:47
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	12-Mar, 18:50
	2-4km S	Heard	2	Explosion	Undetermined	N/K	12-Mar, 19:19
	3-5km SE	Heard	2	Burst		HMG	12-Mar, 19:27
	3-5km SE	Heard	1	Burst		HMG	12-Mar, 19:31
	2-4km SE	Heard	1	Explosion	Undetermined	N/K	12-Mar, 20:14
	3-5km SE	Heard	2	Burst		HMG	12-Mar, 20:50
	2-4km SE	Heard	1	Explosion	Undetermined	N/K	12-Mar, 20:50
	3-5km SE	Heard	1	Burst		HMG	12-Mar, 20:54
	3-5km S	Heard	1	Burst		HMG	12-Mar, 20:56
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	12-Mar, 20:56
	2-4km SE	Heard	1	Explosion	Undetermined	N/K	12-Mar, 21:03
	2-4km SE	Heard	2	Explosion	Undetermined	N/K	12-Mar, 21:07
	3-5km SE	Heard	3	Burst		HMG	12-Mar, 21:08
	2-4km SE	Heard	3	Explosion	Undetermined	N/K	12-Mar, 21:17
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	12-Mar, 21:20
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	12-Mar, 21:27
	3-5km S	Heard	3	Burst		HMG	12-Mar, 21:29

	1-3km SE	Heard	2	Shot		Small arms	12-Mar, 22:05
SMM camera in Kriakivka (government-controlled, 38km NW of Luhansk)	2-4km SW	Recorded	3	Explosion	Undetermined	N/K	12-Mar, 20:14
	2-4km SW	Recorded	3	Projectile	WNW to ESE	N/K	12-Mar, 20:23
	2-4km SW	Recorded	3	Projectile	WNW to ESE	N/K	12-Mar, 20:24
	2-4km SW	Recorded	3	Projectile	WNW to ESE	N/K	12-Mar, 20:27
	2-4km SW	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 20:27
	2-4km SW	Recorded	6	Projectile	WNW to ESE	N/K	12-Mar, 20:28
	2-4km SW	Recorded	18	Projectile	WNW to ESE	N/K	12-Mar, 20:29
	2-4km SW	Recorded	1	Projectile	WNW to ESE	N/K	12-Mar, 20:30
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 20:32
	2-4km SSW	Recorded	4	Projectile	WNW to ESE	N/K	12-Mar, 20:37
	2-4km SSW	Recorded	7	Projectile	WNW to ESE	N/K	12-Mar, 20:38
	2-4km SSW	Recorded	1	Projectile	WNW to ESE	N/K	12-Mar, 20:41
	2-4km SSW	Recorded	16	Projectile	WNW to ESE	N/K	12-Mar, 20:46
	2-4km SSW	Recorded	2	Projectile	WNW to ESE	N/K	12-Mar, 20:47
	SMM camera in Zolote (government-controlled, 60km W of Luhansk)	2.3-4km E	Recorded	6	Explosion	Undetermined (assessed as outside the disengagement area)	N/K
2.5-4km E		Recorded	5	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	12-Mar, 20:22
2.5-4km E		Recorded	2	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	12-Mar, 20:24
1.5-3km E		Recorded	3	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	12-Mar, 20:26
1.5-3km E		Recorded	2	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	12-Mar, 20:36
1.5-3km E		Recorded	1	Muzzle flash	Assessed as outside the disengagement area	N/K	12-Mar, 20:36
1.5-3km E		Recorded	1	Projectile	N to S (subsequent to previous event; assessed as outside the disengagement area)	N/K	12-Mar, 20:36
2-4km E		Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	13-Mar, 18:08
3-5km E		Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	13-Mar, 18:09
2-4km E		Recorded	1	Explosion	Undetermined (assessed as outside the	N/K	13-Mar, 18:13

					disengagement area)		
	3-5km E	Recorded	1	Projectile	N to S (assessed as outside of the disengagement area)	N/K	13-Mar, 18:14
	3-5km E	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	13-Mar, 18:20
	3-5km E	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	13-Mar, 18:22
	4-6km E	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	13-Mar, 18:39
Kadiivka (formerly Stakhanov, non-government-controlled, 50km W of Luhansk)	500-600m NW	Heard	7	Burst		HMG	12-Mar, 21:40
About 1km N of Novohryhorivka (non-government-controlled, 33km W of Luhansk)	10-15km N	Heard	7	Explosion	Undetermined	N/K	13-Mar, 09:55-09:58
S edge of Khoroshe (non-government-controlled, 36km W of Luhansk)	1-1.5km ESE	Heard	20	Shot	Assessed as aimed at the mini-UAV	Small arms	13-Mar, 11:21
N edge of Popasna (government-controlled, 69km W of Luhansk)	2-3km NW	Heard	1	Explosion	Undetermined	N/K	13-Mar, 11:40
S edge of disengagement area near Zolote (non-government-controlled, 60km W of Luhansk)	6-8km SW	Heard	1	Explosion	Undetermined	N/K	13-Mar, 11:44
Trokhizbenka (government-controlled, 32km NW of Luhansk)	8-10km WSW	Heard	1	Explosion	Undetermined	N/K	13-Mar, 11:45

Map of Donetsk and Luhansk regions¹²



¹² 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).