



# Daily Report 123/2020

25 May 2020<sup>1</sup>

## Summary

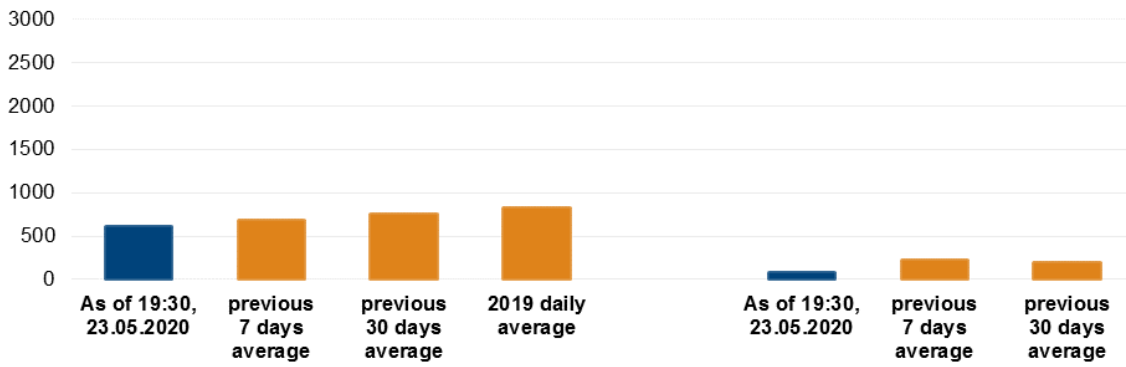
- Compared with the previous reporting period, between the evenings of 22 and 23 May, the Mission recorded a similar number of ceasefire violations in Donetsk region and fewer in Luhansk region.
- Between the evenings of 23 and 24 May, the Mission recorded a similar number of ceasefire violations in Donetsk region and more in Luhansk region, compared with the previous 24 hours.
- The SMM followed up on reports of a woman who sustained shrapnel injuries on 7 April in Marinka, Donetsk region.
- Members of the armed formations continued to deny the Mission passage at checkpoints along official crossing routes in Donetsk and Luhansk regions.\*
- The Mission continued monitoring the disengagement areas near Stanytsia Luhanska, Zolote and Petrivske. Inside the disengagement area near Petrivske, it recorded ceasefire violations and spotted during evening hours persons inside a former position of the armed formations.
- The SMM saw weapons in violation of withdrawal lines, including in training areas in non-government-controlled areas of Donetsk region.
- The Mission continued following up on measures taken amid the COVID-19 outbreak, including at entry-exit checkpoints and their corresponding checkpoints in Donetsk and Luhansk regions.
- The Mission monitored a peaceful gathering in Odessa during which participants were expressing messages critical of the Government.
- The Mission's freedom of movement continued to be restricted, including at checkpoints of the armed formations in Prymorske and near Shevchenko and Bessarabka, all in southern Donetsk region.\*

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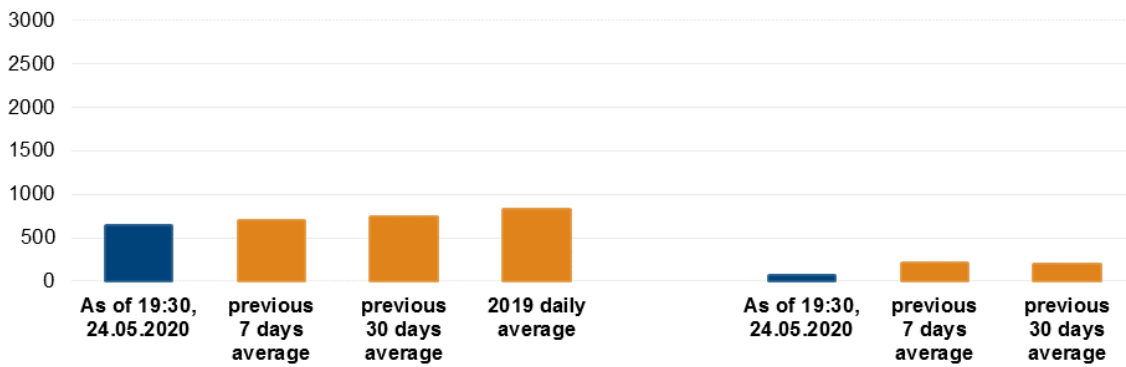
<sup>1</sup> Based on information from the Monitoring Teams as of 19:30, 24 May 2020. All times are in Eastern European Summer Time.

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

Number of recorded ceasefire violations<sup>3</sup>



Number of recorded explosions<sup>4</sup>

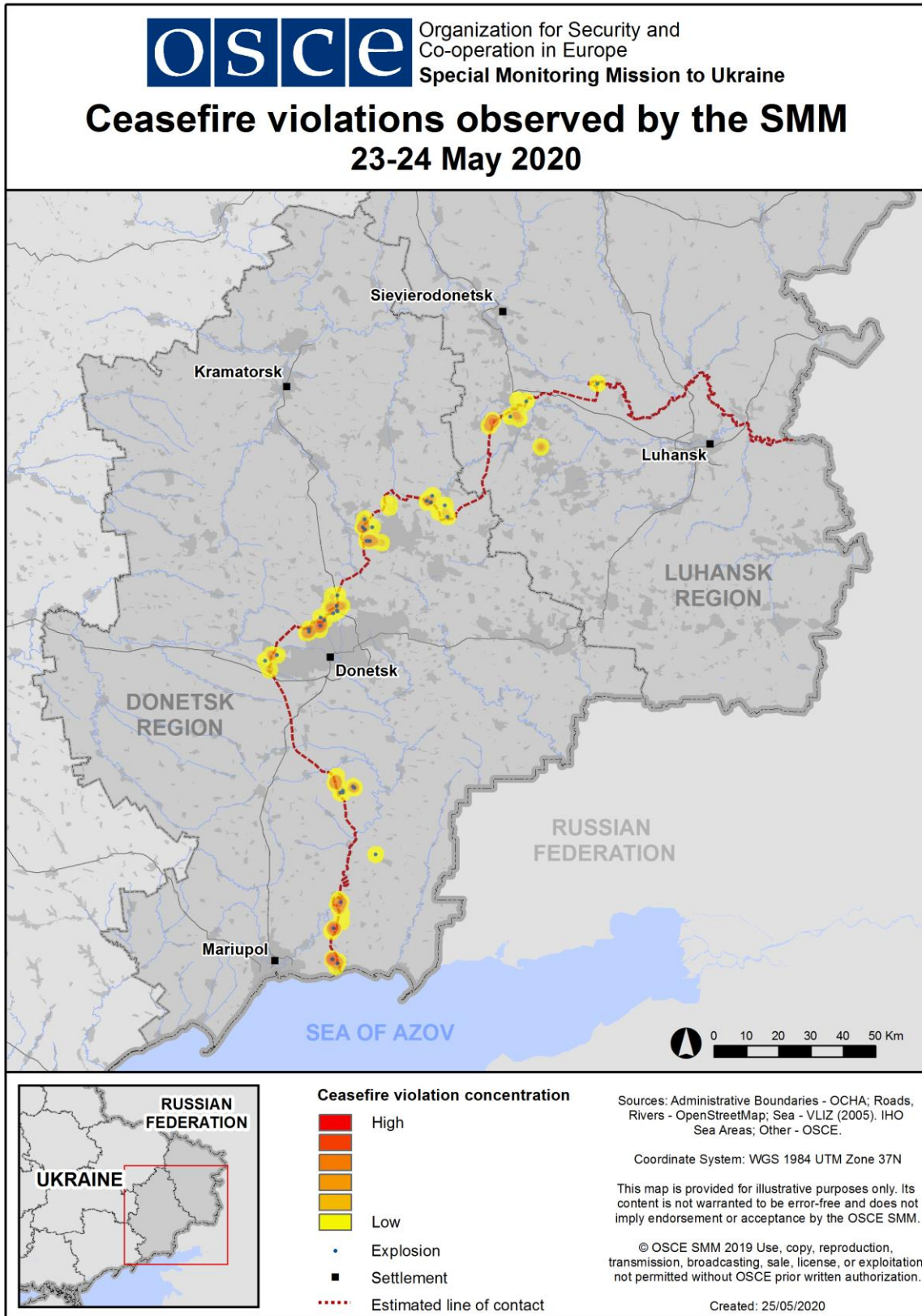


<sup>2</sup> For a complete breakdown of ceasefire violations, please see the annexed table. During the reporting period, the SMM camera in Petrivske was not operational.

<sup>3</sup> Including explosions.

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

### Map of recorded ceasefire violations



In Donetsk region, between the evenings of 22 and 23 May, the SMM recorded a similar number of ceasefire violations, including, however, fewer explosions (about 70), compared with the [previous reporting period](#) (about 220 explosions). The majority of ceasefire violations were recorded in areas north-west of non-government-controlled Donetsk city, west of Horlivka (non-government-controlled, 39km north-east of Donetsk) and north of Shyrokyne (government-controlled, 100km south of Donetsk).

Between the evenings of 23 and 24 May, the Mission recorded a similar number of ceasefire violations, including a similar number of explosions (about 65), compared with the previous 24 hours. The majority of ceasefire violations were recorded again in areas north Shyrokyne and north-west of non-government-controlled Donetsk city, as well as in areas south-east of Chermalyk (government-controlled, 77km south of Donetsk), south-east of Zalizne (formerly Artemove, government-controlled, 42km north-east of Donetsk) and close to the disengagement area near Petrivske (non-government-controlled, 41km south of Donetsk), where the majority of explosions were recorded (see below).

In Luhansk region, between the evenings of 22 and 23 May, the SMM recorded fewer ceasefire violations, including two explosions, compared with the [previous reporting period](#) (about 125 explosions). The majority of ceasefire violations were recorded in areas east of Popasna (government-controlled, 69km west of Luhansk).

Between the evenings of 23 and 24 May, the Mission recorded more ceasefire violations, including, however, the same number of explosions (two), compared with the previous 24 hours. The majority of ceasefire violations were recorded in areas east of the disengagement area near Zolote (government-controlled, 60km west of Luhansk) (see below).

#### **Woman injured while home in Marinka**

The SMM followed up on reports of a woman injured in Marinka (government-controlled, 23km south-west of Donetsk) on 7 April. On 9 April, medical staff at a hospital in Kurakhove (government-controlled, 40km west of Donetsk) told the Mission that a woman had been brought in from Marinka on 7 April. On 23 May, the woman (in her sixties) told the Mission that she had been on the porch of her home at 52A Telmanova Street in Marinka on the afternoon of 7 April when she heard an explosion and felt a sudden pain in her right leg. The woman added that shortly thereafter an ambulance had brought her to a hospital in Kurakhove. According to a medical certificate presented by the woman, she had sustained a shrapnel injury to her right knee on 7 April.

At the abovementioned address, the Mission saw recent shrapnel damage to an east-south-east-facing metal fence located about 5m east-south-east of a one-storey house. The woman told the Mission that the fence had been damaged on 7 April.

#### **Members of the armed formations continued to deny the SMM passage at checkpoints along the contact line in Donetsk and Luhansk regions**

Members of the armed formations continued to deny the SMM passage at checkpoints in both Donetsk and Luhansk regions along official crossing routes. These restrictions constitute an impediment to the implementation of the Mission's mandate.<sup>5</sup>

In Donetsk region, on 23 May, at a checkpoint west of Verkhnohshyrovskivske (formerly Oktiabr, non-government-controlled, 85km south of Donetsk), an armed member of the armed formations [again](#) denied the SMM passage towards non-government-controlled areas, referring to quarantine restrictions due to the COVID-19 outbreak.\*

On 24 May, at a checkpoint north of Horlivka, two armed members of the armed formations [again](#) denied the SMM passage towards non-government-controlled areas, referring to restrictions due to the COVID-19 outbreak. The SMM also continued to observe the presence of a metal barrier and spikes laid across the road, and of a mine hazard sign.\*

On the same day, at a checkpoint of the armed formations east of Kreminets (non-government-controlled, 16km south-west of Donetsk), a member of the armed formations again denied the SMM passage, citing “the closure of the checkpoint” and “an ongoing operation in the area”.\*

In Luhansk region, at a checkpoint south of the Stanytsia Luhanska bridge (15km north-east of Luhansk), a member of the armed formations again denied the SMM passage towards non-government-controlled areas on 23 May and toward government-controlled areas on 24 May.\*

#### **Disengagement areas near Stanytsia Luhanska, Zolote and Petrivske<sup>6</sup>**

On 23 and 24 May, inside the **disengagement area near Stanytsia Luhanska** (government-controlled, 16km north-east of Luhansk), the SMM saw members of the armed formations (wearing armbands with “JCCC” written on them) between the new span of the Stanytsia Luhanska bridge and their checkpoint south of it.

On 22 May, while positioned on the southern edge of the disengagement area, the SMM observed a non-SMM unmanned aerial vehicle (UAV) (black/grey quadcopter type) flying along the southern edge of the **disengagement area near Zolote**, after which the SMM left the area due to security considerations.\*

On the evening of 22 May and during the day on 23 May, the SMM recorded two undetermined explosions and ten projectiles in flight (assessed as outside the disengagement area but within 5km of its periphery).

On the night of 23-24 May, the SMM camera in Zolote recorded an undetermined explosion and 15 projectiles in flight (unable to be assessed as inside or outside the disengagement area), as well as 16 projectiles (assessed as outside the disengagement area but within 5km of its periphery).

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<sup>5</sup> The Mission began facing repeated denials when attempting to cross into non-government-controlled areas at checkpoints of the armed formations in Donetsk region on 21 March and Luhansk region on 23 March. For more information, see SMM Daily and Spot Reports.

<sup>6</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 23 and 24 May, the Mission saw members of the armed formations (wearing armbands with “JCCC” written on them) near the southern edge of the disengagement area. On both days, it saw two of them walking on road T-1316 inside the disengagement area up to about 350m north of its southern edge.

On the evening of 22 May, inside the **disengagement area near Petrivske**, an SMM long-range UAV spotted at least six persons inside a former position of the armed formations near the area’s south-eastern edge.

On the evening and night of 22-23 May, the SMM camera 2km east of Bohdanivka (government-controlled, 41km south-west of Donetsk) recorded 32 projectiles in flight at an assessed range of 1-4km east and east-south-east (assessed as inside the disengagement area).

During the day on 23 May, while positioned at two locations near the disengagement area, the SMM observed a calm situation.

On the evening and night of 23-24 May, the abovementioned camera recorded 35 projectiles in flight and a muzzle flash at an assessed range of 1-3km east and east-south-east (assessed as inside the disengagement area), as well as two undetermined explosions at an assessed range of 4-6km south-east (assessed as outside the disengagement area but within 5km of its periphery).

During the day on 24 May, while positioned about 2km north of Petrivske, the SMM heard 37 undetermined explosions and four shots of small-arms fire (assessed as outside the disengagement area but within 5km of its 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. It observed weapons in violation of withdrawal lines in government- and non-government-controlled areas of Donetsk region, including in training areas. (For further details, see the tables below.)

### **Indications of military and military-type presence inside the security zone<sup>7</sup>**

In the security zone in Donetsk region, the SMM observed armoured combat vehicles in government-controlled areas, including some in residential areas, as well as newly built trenches in non-government-controlled areas (for further details, see the table below).

On 22 May, while positioned about 2km east of Zolote-2/Karbonit (government-controlled, 62km west of Luhansk), the SMM heard and saw a non-SMM UAV flying south-east to north-east near its position. The SMM left the area due to security considerations.\*

On the evening of 22 May, an SMM long-range UAV spotted about four impacts with dust and smoke rising from them in a field about 2km north-west of Lozove (non-government-

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



controlled, 52km north-west of Donetsk). The SMM was unable to determine the weapons used or the direction of fire.

### **Mine hazard signs near non-government-controlled Lyman and Luhanske**

On 23 May, in a field north of Luhanske (non-government-controlled, 15km south-west of Donetsk), the Mission saw for the first time two mine hazard signs (red with a skull and crossbones and “Mines” written in Cyrillic).

On 24 May, about 2km north-west of Lyman (non-government-controlled, 12km north-west of Luhansk), at the entrance to a newly built trench-bunker on the northern side of a local road, the SMM saw for the first time a mine hazard sign (red metallic or wooden square with “Stop Mines” written in Cyrillic).

### **SMM facilitation of repairs to and operation of critical civilian infrastructure**

On 23 May, from 12:00 to 16:00, in both government- and non-government-controlled areas, the SMM [continued](#) to monitor repairs to power transmission lines near Berezhivske (non-government-controlled, 53km north-west of Luhansk). While positioned on the western edge of Berezhivske, the SMM recorded two undetermined explosions at an assessed range of 3-4km north-west (see the table below).

The SMM continued to facilitate the operation of the Donetsk Filtration Station (DFS) (15km north of Donetsk) on 23 and on 24 May. On 24 May, while positioned at two locations near the station, the Mission heard three undetermined explosions as well as shots of small-arms fire, all assessed as within a 5km radius of the DFS.

### **Border areas outside government control**

On 23 May, the SMM monitored border areas near Petrivske (65km east of Donetsk), Tarany (74km east of Donetsk), Hryhorivka (75km east of Donetsk) and Vilkhivchik (formerly Novopetrivske, 78km east of Donetsk), where it observed a calm situation.

### **Measures taken at entry-exit checkpoints and corresponding checkpoints amid COVID-19 outbreak**

In Donetsk region, on 23 and 24 May, the SMM noted that the entry-exit checkpoint (EECP) near Marinka and its corresponding checkpoint east of Kremynets remained closed.

On 24 May, the Mission saw that the EECP near Maiorsk (government-controlled, 45km north-east of Donetsk) and the corresponding checkpoint of the armed formations near Horlivka remained closed.\*

In Luhansk region, on 23 and 24 May, the SMM saw that the EECP in Stanytsia Luhanska and its corresponding checkpoint of the armed formations south of the Stanytsia Luhanska bridge remained closed.\*

### **Security situation in south-east Kherson region**

On 23 May, the SMM observed a calm situation in south-east Kherson region, at the checkpoints near Kalanchak (67km south-east of Kherson) and near Chaplynka (77km south-east of Kherson) between Kherson region and Crimea.

### Peaceful gathering in Odessa

On 24 May, on Prymorskyi Boulevard in Odessa, the SMM monitored a gathering of about 200 people (mostly men, mixed ages), some of whom were holding Ukrainian flags and expressing messages critical of the Government. The Mission saw police officers onsite securing the gathering, which ended without incidents.

The Mission continued monitoring in 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 and 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 (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, [SMM Daily Report 19 May 2020](#)). The SMM's operations in Donetsk and Luhansk regions remain restricted following [the fatal incident of 23 April 2017 near Pryshyb](#); these restrictions continued to limit the Mission's observations.*

#### Denial of access:

- On 23 May, at a checkpoint west of Verkhnohshyrokiivske (formerly Oktiabr, non-government-controlled, 85km south of Donetsk), an armed member of the armed formations [again](#) denied the SMM passage towards non-government-controlled areas, referring to quarantine restrictions due to the COVID-19 outbreak.
- On 23 and 24 May, at a checkpoint south of the Stanytsia Luhanska bridge (15km north-east of Luhansk), a member of the armed formations [again](#) denied the SMM passage towards non-government-controlled areas and towards government-controlled areas, respectively.
- On 24 May, at a checkpoint north of Horlivka (non-government-controlled, 39km north-east of Donetsk), two armed members of the armed formations [again](#) denied the SMM passage towards non-government-controlled areas, referring to restrictions due to the COVID-19 outbreak. The SMM continued to observe the presence of a metal barrier and spikes laid across the road, and of a mine hazard sign.
- On 24 May, at a checkpoint of the armed formations east of Kremynets (non-government-controlled, 16km south-west of Donetsk), a member of the armed formations denied the SMM passage, citing “the closure of the checkpoint” and “an ongoing operation in the area”.
- On 24 May, at a checkpoint about 1.5km north-east of Starolaspa (non-government-controlled, 51km south of Donetsk), two armed members of the armed



formations denied the SMM passage, citing “the SMM’s safety”. While present at the checkpoint, the SMM saw civilian vehicles passing through it.

- On 24 May, in Prymorske (non-government-controlled, 76km south of Donetsk), two armed members of the armed formations denied the SMM passage, citing “sniper activity in the area”.
- On 24 May, at a checkpoint near Bessarabka (non-government-controlled, 85km south of Donetsk), three armed members of the armed formations denied the SMM passage, referring to quarantine restrictions and citing the “need to provide written permission from those in control”.

#### Delay:

- On 24 May, at a checkpoint near Shevchenko (non-government-controlled, 69km south of Donetsk), a member of the armed formations allowed the SMM passage after 16 minutes of waiting.

#### *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 21 May, an SMM long-range UAV experienced GPS signal interference, assessed as probable jamming, while flying over areas between Stepanivka (government-controlled, 54km north of Donetsk) and Dokuchaievsk (non-government-controlled, 30km south-west of Donetsk), between government-controlled Svitlodarsk (57km north-east of Donetsk) and Katerynivka (64km west of Luhansk), and between Myronivskiyi (government-controlled, 62km north-east of Donetsk) and Dolomitne (53km north-east of Donetsk).<sup>8</sup>
- On 22 May, while positioned about 2km east of Zolote-2/Karbonit (government-controlled, 62km west of Luhansk), the SMM heard and saw a non-SMM UAV flying near its position. The Mission left the area (see above).
- On 22 May, while positioned on the southern edge of the disengagement area near Zolote (government-controlled, 60km west of Luhansk), the SMM saw a non-SMM UAV. The Mission left the area (see above).
- On 23 May, an SMM mini-UAV experienced signal interference, assessed as caused by probable jamming, while flying over areas near Lebedynske (government-controlled, 99km south of Donetsk).

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<sup>8</sup> The interference could have originated from anywhere within the radius of kilometres from the UAV’s position.

## Table of weapons

### Weapons in violation of the withdrawal lines

| Date                                   | No. of weapons | Type of weapon   | Location   | Source of observation |
|--|----------------|--|--|-----------------------|
| <b>Government-controlled areas</b>     |                |  |  |                       |
| 21/05/2020                             | 1              | Self-propelled howitzer (2S1 <i>Gvozdika</i> , 122mm)      | Near Vesele (21km north of Donetsk)  | Mini-UAV              |
| <b>Non-government-controlled areas</b> |                |  |  |                       |
| 23/05/2020                             | 7              | Howitzer (type undetermined)                               | In a training area near Ternove (57km east of Donetsk)                                 | Patrol                |
|  | 1              | Multiple launch rocket system (BM-21 <i>Grad</i> , 122 mm) |  |                       |
|  | 3              | Self-propelled howitzer (2S1 <i>Gvozdika</i> , 122mm)      |  |                       |
|  | 5              | Tank (type undetermined)                                   |  |                       |
| 24/05/2020                             | 3              | Tank (type undetermined)                                   | In a training area near Sofiivka (formerly Karlo-Marksove, 40km north-east of Donetsk) |                       |

### Weapons beyond withdrawal lines but outside designated storage sites

| Date                                   | No. of weapons | Type of weapon   | Location  | Source of observation |
|--|----------------|--|---|-----------------------|
| <b>Government-controlled areas</b>     |                |  |   |                       |
| 22/05/2020                             | 3              | Surface-to-air missile system (9K33 <i>Osa</i> )         | In a residential area of Kalynove (35km north of Donetsk)       | Long-range UAV        |
| 24/05/2020                             | 7              | Towed howitzer (D-30 <i>Lyagushka</i> , 122mm)           | At a railway station in Zachativka (74km south-west of Donetsk) | Patrol                |
|  | 6              | Self-propelled howitzer (2S1 <i>Gvozdika</i> , 122mm)    |   |                       |
| <b>Non-government-controlled areas</b> |                |  |   |                       |
| 23/05/2020                             | 18             | Tanks (type undetermined) (some of them observed firing) | In a training area near Ternove (57km east of Donetsk)          | Patrol                |

**Table of military and military-type presence in the security zone<sup>9</sup>**

| Date                                   | No. | Type  | Location  | Source of observation |
|--|-----|---|---|-----------------------|
| <b>Government-controlled areas</b>     |     |   |   |                       |
| 21/05/2020                             | 1   | Infantry fighting vehicle (BMP-1)                 | In Krasnohorivka (24km north of Donetsk)                        | Mini-UAV              |
|  | 1   | Armoured personnel carrier (BTR-70)               |   |                       |
|  | 1   | Armoured combat vehicle                           |   |                       |
| 22/05/2020                             | 1   | Probable armoured combat vehicle                  | Near Starohnativka (51km south of Donetsk)                      | Long-range UAV        |
|  | 1   | Probable armoured combat vehicle                  | Near Myrne (63km south of Donetsk)                              |                       |
|  | 1   | Infantry fighting vehicle (BMP-2)                 |   |                       |
|  | 1   | Probable armoured personnel carrier (BTR variant) |   |                       |
|  | 3   | Armoured personnel carrier (MT-LB)                | In a compound near Pionerske (101km south of Donetsk)           |                       |
|  | 1   | Armoured combat reconnaissance vehicle (BRDM-2)   |   |                       |
|  | 1   | Probable infantry fighting vehicle (BMP variant)  | Near Lebedynske (99km south of Donetsk)                         |                       |
|  | 2   | Probable armored combat vehicle                   | In a residential area of Taramchuk (29km south-west of Donetsk) |                       |
|  | 1   | Probable armoured combat vehicle                  |   |                       |
|  | 1   | Probable infantry fighting vehicle (BMP variant)  |   |                       |
| 23/05/2020                             | 1   | Infantry fighting vehicle (BMP-2)                 | Near Verkhnotoretske (23km north-east of Donetsk)               | Patrol                |
| <b>Non-government-controlled areas</b> |     |   |   |                       |
| 23/05/2020                             | -   | New trench extension                              | In Syhnalne (23km south-west of Donetsk)                        | Patrol                |
| 24/05/2020                             | -   | Newly built trench-bunker                         | Near Lyman (12km north-west of Luhansk)                         |                       |

<sup>9</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 24 May 2020<sup>10</sup>**

| SMM position  | Event location | Means    | No. | Observation | Description   | Weapon | Date, time    |
|---|----------------|----------|-----|-------------|---|--------|---------------|
| SMM camera in Avdiivka (government-controlled, 17km N of Donetsk) | 2-4km NE       | Recorded | 7   | Projectile  | S to N (also recorded by the SMM camera at Oktiabr mine camera)                       | N/K    | 22-May, 21:10 |
|   | 2-4km E        | Recorded | 1   | Projectile  | NNW to SSE (also recorded by the SMM cameras in Avdiivka, at DFS and at Oktiabr mine) | N/K    | 22-May, 22:29 |
|   | 2-4km ESE      | Recorded | 1   | Projectile  | N to S (also recorded by the SMM cameras DFS and at Oktiabr mine)                     | N/K    | 22-May, 21:37 |
|   | 2-4km ESE      | Recorded | 5   | Projectile  | N to S (also recorded by the SMM camera at Oktiabr mine)                              | N/K    | 22-May, 21:37 |
|   | 2-4km ESE      | Recorded | 5   | Projectile  | N to S (also recorded by the SMM cameras at DFS and Oktiabr mine cameras)             | N/K    | 22-May, 21:39 |
|   | 2-4km SE       | Recorded | 8   | Projectile  | In vertical flight (also recorded by the SMM cameras at DFS and at Oktiabr mine)      | N/K    | 22-May, 21:43 |
|   | 1-3km SE       | Recorded | 11  | Projectile  | N to S (also recorded by the SMM cameras at DFS and at Oktiabr mine)                  | N/K    | 23-May, 00:38 |
|   | 1-3km SE       | Recorded | 5   | Projectile  | SW to NE (also recorded by the SMM camera at Oktiabr mine)                            | N/K    | 23-May, 01:07 |
| SMM camera 2km E of Bohdanivka                                    | 1-3km E        | Recorded | 15  | Projectile  | N to S (assessed as inside the  | N/K    | 22-May, 21:59 |

<sup>10</sup> 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.

|  |               |          |    |            |   |     |               |
|--|---------------|----------|----|------------|---|-----|---------------|
| (government-controlled, 41km SW of Donetsk)                        |               |          |    |            | Petrivske disengagement area)   |     |               |
|  | 1-3km ESE     | Recorded | 4  | Projectile | NNE to SSW (assessed as inside the Petrivske disengagement area)                | N/K | 22-May, 22:02 |
|  | 1-3km E       | Recorded | 8  | Projectile | N to S (assessed as inside the Petrivske disengagement area)                    | N/K | 22-May, 23:26 |
|  | 2-4km ESE     | Recorded | 1  | Projectile | N to S (assessed as inside the Petrivske disengagement area)                    | N/K | 22-May, 23:27 |
|  | 2-4km ESE     | Recorded | 1  | Projectile | In vertical flight (assessed as inside the Petrivske disengagement area)        | N/K | 22-May, 23:27 |
|  | 2-4km ESE     | Recorded | 2  | Projectile | N to S (assessed as inside the Petrivske disengagement area)                    | N/K | 23-May, 00:11 |
|  | 1-3km ESE     | Recorded | 1  | Projectile | N to S (assessed as inside the Petrivske disengagement area)                    | N/K | 23-May, 01:58 |
| SMM camera in Chermalyk (government-controlled, 77km S of Donetsk) | 1-3km SE      | Recorded | 6  | Projectile | NE to SW  | N/K | 22-May, 21:03 |
|  | 3-5km SSE     | Recorded | 4  | Projectile | N to S  | N/K | 22-May, 23:09 |
|  | 3-5km SSE     | Recorded | 11 | Projectile | N to S  | N/K | 23-May, 01:12 |
|  | 3-5km SSE     | Recorded | 12 | Projectile | NNE to SSW  | N/K | 23-May, 03:25 |
| SMM camera at Donetsk Filtration Station (15km N of Donetsk)       | 3-5km SSW     | Recorded | 1  | Explosion  | Undetermined (also recorded by the SMM cameras in Avdiivka and at Oktiabr mine) | N/K | 22-May, 21:27 |
|  | 1-2km SSW     | Recorded | 1  | Explosion  | Airburst (also recorded by the SMM cameras in Avdiivka and at Oktiabr mine)     | N/K | 22-May, 21:27 |
|  | 0.8-1.2km SSW | Recorded | 1  | Projectile | NW to SE (also recorded by the SMM cameras in Avdiivka and at Oktiabr mine)     | N/K | 22-May, 21:35 |

|  |           |          |            |                    |   |               |               |
|--|-----------|----------|------------|--------------------|---|---------------|---------------|
| SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk)                  | 2-4km ESE | Recorded | 6          | Projectile         | WSW to ENE                                | N/K           | 22-May, 21:46 |
|  | 2-4km ESE | Recorded | 44         | Projectile         | WSW to ENE                                | N/K           | 22-May, 22:26 |
|  | 2-4km ESE | Recorded | 10         | Projectile         | WSW to ENE                                | N/K           | 22-May, 22:44 |
|  | 2-4km ESE | Recorded | 11         | Projectile         | WSW to ENE                                | N/K           | 22-May, 22:45 |
|  | 2-4km ESE | Recorded | 4          | Projectile         | WSW to ENE                                | N/K           | 22-May, 22:46 |
|  | 2-4km SE  | Recorded | 1          | Projectile         | NNE to SSW                                | N/K           | 22-May, 22:49 |
|  | 2-4km ESE | Recorded | 8          | Projectile         | WSW to ENE                                | N/K           | 22-May, 23:39 |
| SMM camera in Krasnohorivka (government-controlled, 21km W of Donetsk)                     | 1-2km SE  | Recorded | 5          | Projectile         | NNE to SSW                                | N/K           | 22-May, 21:55 |
|  | 1-2km SE  | Recorded | 2          | Projectile         | NNE to SSW                                | N/K           | 22-May, 22:09 |
|  | 1-2km SE  | Recorded | 4          | Projectile         | NNE to SSW                                | N/K           | 22-May, 22:24 |
|  | 1-2km SE  | Recorded | 4          | Projectile         | NNE to SSW                                | N/K           | 22-May, 22:25 |
|  | 1-2km SE  | Recorded | 1          | Projectile         | NNE to SSW                                | N/K           | 22-May, 23:06 |
|  | 1-2km SE  | Recorded | 1          | Projectile         | N to S                                    | N/K           | 22-May, 23:07 |
| SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk) | 2-4km E   | Recorded | 2          | Projectile         | SW to NE                                  | N/K           | 22-May, 21:35 |
| SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk) | 1-3km NNE | Recorded | 1          | Projectile         | E to W                                    | N/K           | 22-May, 23:06 |
| SMM camera at Oktiabr mine (non-government-controlled, 9km NW of Donetsk city centre)      | 1-3km WSW | Recorded | 3          | Projectile         | N to S                                    | N/K           | 22-May, 23:42 |
|  | 1-3km WSW | Recorded | 2          | Projectile         | N to S                                    | N/K           | 22-May, 23:52 |
|  | 1-3km WSW | Recorded | 5          | Projectile         | N to S                                    | N/K           | 23-May, 00:12 |
|  | 1-3km WSW | Recorded | 8          | Projectile         | N to S                                    | N/K           | 23-May, 00:50 |
|  | 1-3km WSW | Recorded | 10         | Projectile         | NNE to SSW                                | N/K           | 23-May, 01:58 |
|  | 3-5km NNE | Recorded | 1          | Explosion          | Undetermined                              | N/K           | 22-May, 22:18 |
|  | 3-5km NNE | Recorded | 1          | Projectile         | NNW to SSE                                | N/K           | 22-May, 22:46 |
|  | 3-5km NE  | Recorded | 1          | Explosion          | Undetermined                              | N/K           | 22-May, 22:50 |
|  | 3-5km NNE | Recorded | 2          | Projectile         | NW to SE                                  | N/K           | 23-May, 00:35 |
| SMM camera 1km SW of Shyrokyne (government-controlled, 100km S of Donetsk)                 | 4-6km N   | Recorded | 2          | Projectile         | W to E                                    | N/K           | 22-May, 21:26 |
|  | 4-6km N   | Recorded | 1          | Projectile         | W to E                                    | N/K           | 22-May, 21:46 |
|  | 4-6km N   | Recorded | 2          | Projectile         | E to W                                    | N/K           | 22-May, 22:19 |
|  | 4-6km N   | Recorded | 2          | Projectile         | W to E                                    | N/K           | 22-May, 22:26 |
|  | 4-6km N   | Recorded | 8          | Explosion          | Undetermined                              | N/K           | 22-May, 22:43 |
|  | 4-6km N   | Recorded | 1          | Projectile         | W to E                                    | N/K           | 22-May, 22:43 |
|  | 4-6km N   | Recorded | 5          | Explosion          | Undetermined                              | N/K           | 22-May, 22:45 |
|  | 4-6km N   | Recorded | 2          | Muzzle flash       |   | N/K           | 22-May, 22:49 |
|  | 4-6km N   | Recorded | 2          | Projectile         | ESE to WNW (subsequent to previous event) | N/K           | 22-May, 22:49 |
|  | 4-6km N   | Recorded | 5          | Projectile         | ESE to WNW                                | N/K           | 22-May, 22:49 |
|  | 4-6km N   | Recorded | 2          | Projectile         | E to W                                    | N/K           | 22-May, 22:53 |
|  | 4-6km N   | Recorded | 1          | Projectile         | ESE to WNW                                | N/K           | 22-May, 23:29 |
|  | 4-6km N   | Recorded | 4          | Projectile         | ESE to WNW                                | N/K           | 22-May, 23:35 |
|  | 4-6km N   | Recorded | 4          | Projectile         | ESE to WNW                                | N/K           | 23-May, 00:25 |
|  | 4-6km N   | Recorded | 30         | Projectile         | ESE to WNW                                | N/K           | 23-May, 00:38 |
|  | 2-4km NNE | Recorded | 6          | Projectile         | E to W                                    | N/K           | 23-May, 00:41 |
|  | 2-4km NNE | Recorded | 5          | Projectile         | E to W                                    | N/K           | 23-May, 00:42 |
| 2-4km NNE  | Recorded  | 1        | Projectile | E to W             | N/K                                       | 23-May, 01:39 |               |
| SMM camera in Svitlodarsk (government-   | 4-6km S   | Recorded | 1          | Illumination flare | In vertical flight                        | N/K           | 22-May, 20:54 |
|  | 4-6km SSE | Recorded | 3          | Projectile         | NE to SW                                  | N/K           | 22-May, 21:06 |



|   |           |          |    |                    |  |            |                     |
|---|-----------|----------|----|--------------------|--|------------|---------------------|
| controlled, 57km NE of Donetsk)   | 4-6km SSE | Recorded | 4  | Projectile         | ENE to WSW                                 | N/K        | 22-May, 21:07       |
|   | 3-5km WSW | Recorded | 1  | Muzzle flash       |  | N/K        | 22-May, 21:21       |
|   | 3-5km WSW | Recorded | 1  | Projectile         | S to N (subsequent to previous event)      | N/K        | 22-May, 21:21       |
|   | 3-5km WSW | Recorded | 1  | Explosion          | Impact (subsequent to previous event)      | N/K        | 22-May, 21:21       |
|   | 3-5km WSW | Recorded | 5  | Explosion          | Undetermined                               | N/K        | 22-May, 21:33       |
|   | 3-5km WSW | Recorded | 2  | Muzzle flash       |  | N/K        | 22-May, 21:33       |
|   | 3-5km WSW | Recorded | 2  | Projectile         | NE to SW                                   | N/K        | 22-May, 21:33       |
|   | 3-5km WSW | Recorded | 1  | Projectile         | N to S                                     | N/K        | 22-May, 21:34       |
|   | 3-5km WSW | Recorded | 1  | Illumination flare | In vertical flight                         | N/K        | 22-May, 23:07       |
|   | 3-5km WSW | Recorded | 1  | Illumination flare | In vertical flight                         | N/K        | 22-May, 23:14       |
| Railway station in Donetsk city (non-government-controlled, 6km NW of Donetsk city centre)                      | 2-3km NW  | Heard    | 14 | Shot               |  | HMG        | 23-May, 11:15-11:39 |
|   | 2-3km NNW | Heard    | 6  | Explosion          | Undetermined                               | N/K        | 23-May, 13:57-14:30 |
|   | 2-3km NNW | Heard    | 85 | Shot               |  | Small arms | 23-May, 13:57-14:30 |
| About 1km NNE of the railway station in Donetsk city (non-government-controlled, 6km NW of Donetsk city centre) | 1-2km NW  | Heard    | 5  | Shot               |  | Small arms | 23-May, 11:52       |
| Svitlodarsk (government-controlled, 57km NE of Donetsk)   | 3-5km SSE | Heard    | 2  | Explosion          | Undetermined                               | N/K        | 22-May, 21:03       |
| Horlivka (non-government-controlled, 39km NE of Donetsk)  | 5-7km NW  | Heard    | 2  | Explosion          | Undetermined                               | N/K        | 22-May, 19:48-19:49 |
|   | 4-7km W   | Heard    | 9  | Explosion          | Undetermined                               | N/K        | 22-May, 20:50-20:56 |
|   | 4-7km W   | Heard    | 29 | Burst              |  | HMG        | 22-May, 20:50-20:56 |
|   | 5-7km NW  | Heard    | 3  | Explosion          | Undetermined                               | N/K        | 22-May, 21:31-21:33 |
|   | 5-7km W   | Heard    | 2  | Explosion          | Undetermined                               | N/K        | 22-May, 22:19-22:20 |
|   | 3-5km W   | Heard    | 18 | Burst              |  | HMG        | 23-May, 02:32-02:35 |
|   | 5-14km NW | Heard    | 12 | Explosion          | Undetermined                               | N/K        | 23-May, 07:15-07:29 |
|   | 4-6km W   | Heard    | 12 | Explosion          | Undetermined                               | N/K        | 23-May, 07:30-07:40 |
| SMM camera on N edge of Popasna (government-controlled, 69km W of Luhansk)                                      | 4-6km SE  | Recorded | 4  | Projectile         | In vertical flight                         | N/K        | 22-May, 22:00       |
|   | 4-6km SE  | Recorded | 18 | Projectile         | In vertical flight                         | N/K        | 22-May, 22:39       |
|   | 4-6km SE  | Recorded | 6  | Projectile         | In vertical flight                         | N/K        | 22-May, 22:39       |
|   | 4-6km ESE | Recorded | 5  | Projectile         | WSW to ENE (assessed as outside the Zolote | N/K        | 22-May, 22:40       |

|   |              |          |    |              |  |            |                     |
|---|--------------|----------|----|--------------|--|------------|---------------------|
|   |              |          |    |              | disengagement area)  |            |                     |
|   | 4-6km ESE    | Recorded | 5  | Projectile   | In vertical flight (assessed as outside the Zolote disengagement area)   | N/K        | 22-May, 22:49       |
| Kadiivka (formerly Stakhanov, non-government-controlled, 50km W of Luhansk) | 500-600m WSW | Heard    | 17 | Burst        |  | Small arms | 22-May, 22:40-22:51 |
| W edge of Berezivske (non-government-controlled, 53km NW of Luhansk)        | 3-4km NNW    | Heard    | 2  | Explosion    | Undetermined (assessed as outside the Zolote disengagement area)         | N/K        | 23-May, 14:05       |
| SMM camera in Avdiivka (government-controlled, 17km N of Donetsk)           | 2-4km NE     | Recorded | 1  | Projectile   | WNW to ESE   | N/K        | 24-May, 01:30       |
| SMM camera 2km E of Bohdanivka (government-controlled, 41km SW of Donetsk)  | 4-6km SE     | Recorded | 1  | Explosion    | Undetermined (assessed as outside the Petrivske disengagement area)      | N/K        | 23-May, 21:44       |
|   | 1-3km ESE    | Recorded | 13 | Projectile   | In vertical flight (assessed as inside the Petrivske disengagement area) | N/K        | 23-May, 21:52       |
|   | 1-3km ESE    | Recorded | 3  | Projectile   | N to S (assessed as inside the Petrivske disengagement area)             | N/K        | 23-May, 22:19       |
|   | 1-3km ESE    | Recorded | 2  | Projectile   | SW to NE (assessed as inside the Petrivske disengagement area)           | N/K        | 23-May, 22:20       |
|   | 4-6km SE     | Recorded | 1  | Explosion    | Undetermined (assessed as outside the Petrivske disengagement area)      | N/K        | 23-May, 22:48       |
|   | 1-3km E      | Recorded | 1  | Projectile   | N to S (assessed as inside the Petrivske disengagement area)             | N/K        | 23-May, 23:26       |
|   | 1-3km E      | Recorded | 1  | Muzzle flash | Assessed as  | N/K        | 23-May, 23:26       |

|   |           |          |            |                    |  |               |               |
|---|-----------|----------|------------|--------------------|--|---------------|---------------|
|   |           |          |            |                    | inside the Petrivske disengagement area                          |               |               |
|   | 1-3km ESE | Recorded | 3          | Projectile         | N to S (assessed as inside the Petrivske disengagement area)     | N/K           | 23-May, 23:44 |
|   | 1-3km E   | Recorded | 1          | Projectile         | N to S (assessed as inside the Petrivske disengagement area)     | N/K           | 24-May, 00:25 |
|   | 1-3km E   | Recorded | 1          | Projectile         | NNW to SSE (assessed as inside the Petrivske disengagement area) | N/K           | 24-May, 00:25 |
|   | 1-3km E   | Recorded | 11         | Projectile         | NNW to SSE (assessed as inside the Petrivske disengagement area) | N/K           | 24-May, 01:42 |
| SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)        | 2-4km SE  | Recorded | 16         | Projectile         | NNE to SSW   | N/K           | 23-May, 21:49 |
|   | 2-4km SE  | Recorded | 5          | Projectile         | NNE to SSW   | N/K           | 23-May, 21:50 |
|   | 2-4km SSE | Recorded | 3          | Projectile         | W to E   | N/K           | 23-May, 21:50 |
|   | 2-4km SE  | Recorded | 1          | Explosion          | Undetermined   | N/K           | 23-May, 22:50 |
|   | 2-4km SE  | Recorded | 8          | Projectile         | In vertical flight   | N/K           | 23-May, 23:28 |
|   | 2-4km SE  | Recorded | 14         | Projectile         | NNE to SSW   | N/K           | 23-May, 23:29 |
|   | 2-4km SE  | Recorded | 1          | Projectile         | NNE to SSW   | N/K           | 23-May, 23:30 |
|   | 2-4km SSE | Recorded | 10         | Projectile         | NNE to SSW   | N/K           | 23-May, 23:36 |
|   | 2-4km SSE | Recorded | 13         | Projectile         | NNE to SSW   | N/K           | 23-May, 23:37 |
| 2-4km SSE   | Recorded  | 2        | Projectile | NNE to SSW         | N/K  | 24-May, 03:24 |               |
| SMM camera at Donetsk Filtration Station (15km N of Donetsk)              | 0.8-1km S | Recorded | 1          | Projectile         | N to S   | N/K           | 23-May, 21:59 |
|   | 0.8-1km S | Recorded | 1          | Muzzle flash       |  | N/K           | 23-May, 22:01 |
|   | 1-3km SSW | Recorded | 1          | Projectile         | WSW to ENE   | N/K           | 24-May, 01:08 |
|   | 1-3km SSW | Recorded | 1          | Projectile         | WSW to ENE   | N/K           | 24-May, 01:13 |
| SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk) | 2-4km SE  | Recorded | 1          | Projectile         | SW to NE   | N/K           | 23-May, 21:12 |
|   | 2-4km SE  | Recorded | 1          | Projectile         | SW to NE   | N/K           | 23-May, 21:15 |
|   | 2-4km SE  | Recorded | 1          | Projectile         | SW to NE   | N/K           | 23-May, 21:20 |
|   | 2-4km SE  | Recorded | 1          | Projectile         | SW to NE   | N/K           | 23-May, 21:21 |
|   | 2-4km SE  | Recorded | 2          | Projectile         | SW to NE   | N/K           | 23-May, 21:24 |
|   | 2-4km ESE | Recorded | 18         | Projectile         | WSW to ENE   | N/K           | 23-May, 22:16 |
|   | 2-4km ESE | Recorded | 1          | Explosion          | Undetermined   | N/K           | 23-May, 22:46 |
|   | 2-4km ESE | Recorded | 1          | Explosion          | Undetermined   | N/K           | 23-May, 22:47 |
|   | 2-4km ESE | Recorded | 16         | Projectile         | WSW to ENE   | N/K           | 23-May, 22:54 |
|   | 2-4km ESE | Recorded | 4          | Projectile         | WSW to ENE   | N/K           | 23-May, 22:56 |
|   | 2-4km SE  | Recorded | 1          | Illumination flare |  | N/K           | 23-May, 23:47 |
|   | 2-4km ESE | Recorded | 13         | Projectile         | N to S   | N/K           | 23-May, 23:57 |
|   | 2-4km SE  | Recorded | 1          | Projectile         | In vertical flight   | N/K           | 23-May, 23:57 |
|   | 2-4km ESE | Recorded | 1          | Projectile         | N to S   | N/K           | 23-May, 23:59 |
| SMM camera at entry-exit checkpoint in                                    | 3-4km ENE | Recorded | 2          | Projectile         | NNW to SSE   | N/K           | 23-May, 21:35 |
|   | 3-4km ENE | Recorded | 2          | Projectile         | NNW to SSE   | N/K           | 23-May, 22:52 |

|  |            |          |            |                    |                    |               |               |
|--|------------|----------|------------|--------------------|--------------------|---------------|---------------|
| Hnutove<br>(government-controlled,<br>84km S of<br>Donetsk)  | 3-4km ESE  | Recorded | 2          | Projectile         | SW to NE           | N/K           | 23-May, 23:21 |
|  | 3-4km ENE  | Recorded | 1          | Projectile         | NNE to SSW         | N/K           | 23-May, 23:30 |
| SMM camera in<br>Hranitne<br>(government-controlled,<br>60km S of<br>Donetsk)                                | 8-10km ESE | Recorded | 1          | Explosion          | Undetermined       | N/K           | 24-May, 01:08 |
| SMM camera in<br>Krasnohorivka<br>(government-controlled,<br>21km W of<br>Donetsk)                           | 1-3km SE   | Recorded | 2          | Projectile         | N to S             | N/K           | 23-May, 22:45 |
|  | 1-3km SE   | Recorded | 4          | Projectile         | N to S             | N/K           | 23-May, 22:46 |
|  | 2-4km ESE  | Recorded | 1          | Explosion          | Undetermined       | N/K           | 23-May, 22:46 |
|  | 1-3km SE   | Recorded | 1          | Projectile         | N to S             | N/K           | 23-May, 23:49 |
| SMM camera at<br>entry-exit<br>checkpoint in<br>Maiorsk<br>(government-controlled,<br>45km NE of<br>Donetsk) | 2-4km ENE  | Recorded | 1          | Projectile         | NNW to SSE         | N/K           | 23-May, 23:41 |
| SMM camera at<br>entry-exit<br>checkpoint in<br>Marinka<br>(government-controlled,<br>23km SW of<br>Donetsk) | 1-3km NNE  | Recorded | 1          | Projectile         | ESE to WNW         | N/K           | 23-May, 22:31 |
|  | 1-3km NNE  | Recorded | 4          | Projectile         | WSW to ENE         | N/K           | 23-May, 23:48 |
|  | 1-3km NNE  | Recorded | 4          | Projectile         | WSW to ENE         | N/K           | 23-May, 23:49 |
|  | 1-3km NNE  | Recorded | 1          | Projectile         | SE to NW           | N/K           | 23-May, 23:49 |
| SMM camera at<br>Oktiabr mine<br>(non-government-controlled,<br>9km NW of Donetsk<br>city centre)            | 1-3km WSW  | Recorded | 6          | Projectile         | N to S             | N/K           | 23-May, 21:12 |
|  | 1-3km W    | Recorded | 1          | Explosion          | Undetermined       | N/K           | 23-May, 21:13 |
|  | 1-3km WSW  | Recorded | 1          | Explosion          | Undetermined       | N/K           | 23-May, 21:16 |
|  | 1-3km WSW  | Recorded | 3          | Projectile         | NNE to SSW         | N/K           | 23-May, 21:40 |
|  | 1-3km WSW  | Recorded | 1          | Projectile         | N to S             | N/K           | 23-May, 22:25 |
|  | 2-4km WSW  | Recorded | 23         | Projectile         | N to S             | N/K           | 24-May, 02:29 |
|  | 2-4km NE   | Recorded | 1          | Projectile         | NW to SE           | N/K           | 24-May, 00:29 |
|  | 2-4km NE   | Recorded | 4          | Projectile         | NW to SE           | N/K           | 24-May, 01:08 |
|  | 2-4km NE   | Recorded | 1          | Projectile         | NW to SE           | N/K           | 24-May, 01:09 |
|  | 2-4km NE   | Recorded | 1          | Projectile         | NW to SE           | N/K           | 24-May, 01:13 |
|  | 2-4km NE   | Recorded | 6          | Projectile         | NW to SE           | N/K           | 24-May, 01:53 |
| SMM camera<br>1km SW of<br>Shyrokyne<br>(government-controlled,<br>100km S of<br>Donetsk)                    | 4-6km N    | Recorded | 1          | Explosion          | Undetermined       | N/K           | 23-May, 21:27 |
|  | 4-6km N    | Recorded | 1          | Explosion          | Undetermined       | N/K           | 23-May, 21:28 |
|  | 3-5km NNE  | Recorded | 1          | Explosion          | Undetermined       | N/K           | 23-May, 21:28 |
|  | 4-6km N    | Recorded | 23         | Projectile         | W to E             | N/K           | 23-May, 23:04 |
|  | 2-4km NNE  | Recorded | 1          | Projectile         | ESE to WNW         | N/K           | 23-May, 23:04 |
|  | 3-6km NNE  | Recorded | 18         | Projectile         | In vertical flight | N/K           | 23-May, 23:26 |
|  | 3-6km NNE  | Recorded | 11         | Projectile         | In vertical flight | N/K           | 23-May, 23:27 |
|  | 4-6km N    | Recorded | 1          | Explosion          | Undetermined       | N/K           | 23-May, 23:29 |
|  | 4-6km N    | Recorded | 6          | Projectile         | ESE to WNW         | N/K           | 23-May, 23:45 |
|  | 4-6km N    | Recorded | 1          | Illumination flare |                    | N/K           | 23-May, 23:46 |
|  | 4-6km N    | Recorded | 19         | Projectile         | WSW to ENE         | N/K           | 23-May, 23:51 |
|  | 4-6km N    | Recorded | 2          | Explosion          | Undetermined       | N/K           | 24-May, 00:03 |
|  | 4-6km N    | Recorded | 5          | Projectile         | ESE to WNW         | N/K           | 24-May, 00:34 |
|  | 4-6km N    | Recorded | 11         | Projectile         | WSW to ENE         | N/K           | 24-May, 00:40 |
|  | 4-6km N    | Recorded | 10         | Projectile         | WSW to ENE         | N/K           | 24-May, 00:46 |
| 4-6km N  | Recorded   | 3        | Projectile | E to W             | N/K                | 24-May, 00:55 |               |
| 4-6km N  | Recorded   | 1        | Projectile | E to W             | N/K                | 24-May, 00:59 |               |

|   |           |               |    |            |   |            |                     |
|---|-----------|---------------|----|------------|---|------------|---------------------|
|   | 2-4km NNE | Recorded      | 1  | Projectile | E to W  | N/K        | 24-May, 01:01       |
|   | 4-6km N   | Recorded      | 16 | Projectile | WSW to ENE  | N/K        | 24-May, 01:17       |
| SMM camera in Svitlodarsk (government-controlled, 57km NE of Donetsk)                             | 6-8km SSE | Recorded      | 9  | Projectile | In vertical flight  | N/K        | 23-May, 22:45       |
|   | 6-8km SSE | Recorded      | 1  | Explosion  | Undetermined  | N/K        | 23-May, 22:45       |
|   | 1-3km W   | Recorded      | 1  | Explosion  | Undetermined  | N/K        | 23-May, 21:11       |
|   | 1-3km WSW | Recorded      | 8  | Projectile | N to S  | N/K        | 23-May, 21:12       |
| About 1km NW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk) | 1-2km SW  | Heard         | 17 | Shot       |   | Small arms | 24-May, 09:51-09:53 |
|   | 3-4km SW  | Heard         | 1  | Explosion  | Undetermined (inside 5km around DFS)                      | N/K        | 24-May, 09:59       |
| About 2km N of Petrivske (non-government-controlled, 41km S of Donetsk)                           | 4-5km SE  | Heard         | 13 | Explosion  | Undetermined (assessed as outside the disengagement area) | N/K        | 24-May, 13:38-13:46 |
|   | 4-6km SE  | Heard and saw | 1  | Explosion  | Undetermined (assessed as outside the disengagement area) | N/K        | 24-May, 13:38-13:46 |
|   | 4-6km S   | Heard         | 2  | Explosion  | Undetermined (assessed as outside the disengagement area) | N/K        | 24-May, 13:38-13:46 |
|   | 4-5km S   | Heard         | 7  | Explosion  | Undetermined (assessed as outside the disengagement area) | N/K        | 24-May, 13:53-13:55 |
|   | 4-6km SE  | Heard         | 7  | Explosion  | Undetermined (assessed as outside the disengagement area) | N/K        | 24-May, 14:03-14:08 |
|   | 2km W     | Heard         | 4  | Shot       | Assessed as outside the disengagement area                | Small arms | 24-May, 14:13       |
|   | 4-6km SE  | Heard         | 1  | Explosion  | Undetermined (assessed as outside the disengagement area) | N/K        | 24-May, 14:18       |
|   | 4-6km SE  | Heard         | 6  | Explosion  | Undetermined (assessed as outside the disengagement area) | N/K        | 24-May, 14:30-14:32 |
| About 2.5km SE of Avdiivka (government-controlled, 17km N of Donetsk)                             | 3-4km SE  | Heard         | 1  | Explosion  | Undetermined  | N/K        | 24-May, 09:55       |
|   | 3-4km NE  | Heard         | 1  | Explosion  | Undetermined  | N/K        | 24-May, 09:56       |
| About 2km WSW of Zalizne (formerly  | 3-4km SE  | Heard         | 30 | Burst      |   | HMG        | 24-May, 12:04-12:07 |
|   | 4-5km SE  | Heard         | 1  | Explosion  | Undetermined  | N/K        | 24-May, 12:10       |
|   | 3-4km SE  | Heard         | 2  | Explosion  | Undetermined  | N/K        | 24-May, 12:20       |

|  |           |          |    |            |  |            |               |
|--|-----------|----------|----|------------|--|------------|---------------|
| Artemove, government-controlled, 42km NE of Donetsk)                       | 3-4km SE  | Heard    | 20 | Burst      |  | HMG        | 24-May, 12:20 |
| Marinka (government-controlled, 23km SW of Donetsk)                        | 2-3km N   | Heard    | 1  | Explosion  | Undetermined   | N/K        | 24-May, 10:45 |
| About 1km SW of Novoluhanske (government-controlled, 53km NE of Donetsk)   | 1-2km SSE | Heard    | 1  | Burst      |  | HMG        | 24-May, 10:49 |
| Horlivka (non-government-controlled, 39km NE of Donetsk)                   | 1-2km WSW | Heard    | 10 | Shot       |  | Small arms | 24-May, 10:27 |
| Svitlodarsk (government-controlled, 57km NE of Donetsk)                    | 3-5km SW  | Heard    | 1  | Explosion  | Undetermined   | N/K        | 23-May, 21:08 |
|  | 3-5km SW  | Heard    | 1  | Explosion  | Undetermined   | N/K        | 24-May, 17:20 |
|  | 3-5km SW  | Heard    | 1  | Explosion  | Undetermined   | N/K        | 24-May, 18:12 |
|  | 3-5km SW  | Heard    | 2  | Explosion  | Undetermined   | N/K        | 24-May, 18:19 |
| SMM camera in Kriakivka (government-controlled, 38km NW of Luhansk)        | 3-5km SSW | Recorded | 1  | Projectile | WNW to ESE   | N/K        | 23-May, 21:43 |
|  | 3-5km SSW | Recorded | 1  | Explosion  | Undetermined   | N/K        | 23-May, 22:38 |
| SMM camera on N edge of Popasna (government-controlled, 69km W of Luhansk) | 4-6km ESE | Recorded | 65 | Projectile | In vertical flight   | N/K        | 23-May, 23:27 |
| SMM camera in Zolote (government-controlled, 60km W of Luhansk)            | 3-5km ENE | Recorded | 2  | Projectile | In vertical flight (assessed as outside the disengagement area)                  | N/K        | 23-May, 23:28 |
|  | 4-6km E   | Recorded | 1  | Projectile | In vertical flight (assessed as outside the disengagement area)                  | N/K        | 23-May, 23:43 |
|  | 3-5km SSE | Recorded | 1  | Explosion  | Undetermined (unable to be assessed if inside or outside the disengagement area) | N/K        | 23-May, 22:46 |
|  | 3-5km SE  | Recorded | 15 | Projectile | Unable to be assessed as inside or outside the disengagement area                | N/K        | 23-May, 23:27 |
|  | 5-7km SE  | Recorded | 7  | Projectile | In vertical flight   | N/K        | 23-May, 23:27 |



|  |          |          |   |            |   |     |               |
|--|----------|----------|---|------------|---|-----|---------------|
|  |          |          |   |            | (assessed as outside the disengagement area)                    |     |               |
|  | 5-7km SE | Recorded | 6 | Projectile | In vertical flight (assessed as outside the disengagement area) | N/K | 23-May, 23:28 |

### Map of Donetsk and Luhansk regions<sup>11</sup>



<sup>11</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).