Table of ceasefire violations as of 31 October 2021¹⁰

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	2-4km SE	Recorded	2	Projectile	SW to NE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 19:52
	3-5km SE	Recorded	3	Projectile	SW to NE (assessed as outside the disengagement area near Petrivske)	N/K	29-Oct, 19:53
	3-5km SE	Recorded	1	Projectile	SW to NE (assessed as outside the disengagement area near Petrivske)	N/K	29-Oct, 19:54
	3-5km SE	Recorded	1	Projectile	SW to NE (assessed as outside the disengagement area near Petrivske)	N/K	29-Oct, 19:54
	3-5km SE	Recorded	1	Explosion	Impact (subsequent to the previous event, assessed as outside the disengagement area near Petrivske)	N/K	29-Oct, 19:54
	2-4km ESE	Recorded	1	Projectile	SW to NE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 20:05
	3-5km SE	Recorded	5	Explosion	Undetermined (assessed as outside the disengagement area near Petrivske)	N/K	29-Oct, 20:07
	3-5km SE	Recorded	1	Projectile	SW to NE (assessed as outside the disengagement area near Petrivske)	N/K	29-Oct, 20:07
	2-4km ESE	Recorded	1	Explosion	Undetermined (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 20:09
	3-5km SE	Recorded	2	Projectile	SW to NE (assessed as outside the disengagement area near Petrivske)	N/K	29-Oct, 20:09
SMM camera 2km E of	3-5km SE	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area near Petrivske)	N/K	29-Oct, 20:09
Bohdanivka (government- controlled, 41km SW of Donetsk)	2-4km ESE	Recorded	16	Projectile	N to S (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 21:13
Donetsk)	2-4km ESE	Recorded	1	Explosion	Undetermined (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 21:13
	2-4km ESE	Recorded	8	Projectile	N to S (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 21:14
	2-4km ESE	Recorded	12	Projectile	N to S (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 21:18
	1-3km SE	Recorded	10	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 21:29
	1-3km ESE	Recorded	2	Explosion	Undetermined (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 21:29
	3-5km SE	Recorded	2	Projectile	SW to NE (assessed as outside the disengagement area near Petrivske)	N/K	29-Oct, 21:29
	3-5km SE	Recorded	11	Projectile	SW to NE (assessed as outside the disengagement area near Petrivske)	N/K	29-Oct, 21:52
	3-5km SE	Recorded	3	Projectile	SW to NE (assessed as outside the disengagement area near Petrivske)	N/K	29-Oct, 21:59
	1-3km E	Recorded	1	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:09
	1-3km SE	Recorded	26	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:09
	1-3km SE	Recorded	3	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:09

¹⁰ The table only includes ceasefire violations directly observed by 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 position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	1-3km ESE	Recorded	3	Explosion	Undetermined (subsequent to previous event, assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:09
	2-4km SE	Recorded	9	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:10
	3-5km ESE	Recorded	5	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:11
	1-3km SE	Recorded	4	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:11
	2-4km ESE	Recorded	2	Explosion	Undetermined (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:11
	2-4km ESE	Recorded	1	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:12
	1-3km SE	Recorded	7	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:12
	2-4km ESE	Recorded	5	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:13
	2-4km SE	Recorded	7	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:13
	2-4km ESE	Recorded	2	Explosion	Undetermined (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:13
	1-3km SE	Recorded	12	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:14
	1-3km ESE	Recorded	1	Explosion	Undetermined (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:14
	2-4km ESE	Recorded	5	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:15
	2-4km SE	Recorded	14	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:15
	2-4km ESE	Recorded	3	Explosion	Undetermined (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:15
	2-4km ESE	Recorded	1	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 22:16
	2-4km SE	Recorded	14	Projectile	SSW to NNE (assessed as inside the	N/K	29-Oct, 22:16
	2-4km ESE	Recorded	2	Explosion	disengagement area near Petrivske) Undetermined (assessed as inside the	N/K	29-Oct, 22:16
	2-4km ESE	Recorded	2	Explosion	disengagement area near Petrivske) Undetermined (assessed as inside the	N/K	29-Oct, 22:17
	2-4km ESE	Recorded	14	Projectile	disengagement area near Petrivske) SW to NE (assessed as inside the	N/K	29-Oct, 22:18
	2-4km SE	Recorded	5	Projectile	disengagement area near Petrivske) SSW to NNE (assessed as inside the	N/K	29-Oct, 22:18
	2-4km ESE	Recorded	1	Projectile	disengagement area near Petrivske) SSW to NNE (assessed as inside the	N/K	29-Oct, 22:19
	2-4km SE	Recorded	6	Projectile	disengagement area near Petrivske) SSW to NNE (assessed as inside the	N/K	29-Oct, 22:19
	2-4km ESE	Recorded	1	Projectile	disengagement area near Petrivske) NNE to SSW (assessed as inside the	N/K	29-Oct, 22:21
	2-4km ESE	Recorded	2	Projectile	disengagement area near Petrivske) NNE to SSW (assessed as inside the	N/K	29-Oct, 22:35
	2-4km ESE	Recorded	11	Projectile	disengagement area near Petrivske) N to S (assessed as inside the	N/K	29-Oct, 22:33
					disengagement area near Petrivske) NNE to SSW (assessed as inside the		
	2-4km ESE	Recorded	8	Projectile	disengagement area near Petrivske) NNE to SSW (assessed as inside the	N/K	29-Oct, 22:44
	2-4km SE	Recorded	1	Projectile	disengagement area near Petrivske) N to S (assessed as inside the	N/K	29-Oct, 22:44
	2-4km ESE	Recorded	18	Projectile	disengagement area near Petrivske)	N/K	29-Oct, 23:21

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	2-4km ESE	Recorded	2	Projectile	NNE to SSW (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 23:22
	2-4km ESE	Recorded	22	Projectile	N to S (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 23:23
	2-4km SE	Recorded	1	Projectile	SW to NE (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 23:23
	2-4km ESE	Recorded	1	Projectile	N to S (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 23:24
	2-4km SE	Recorded	1	Projectile	N to S (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 23:24
	2-4km ESE	Recorded	20	Projectile	N to S (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 23:25
	2-4km ESE	Recorded	8	Projectile	N to S (assessed as inside the disengagement area near Petrivske)	N/K	29-Oct, 23:28
	2-4km ESE	Recorded	6	Projectile	NNE to SSW (assessed as inside the disengagement area near Petrivske)	N/K	30-Oct, 00:08
	2-4km SE	Recorded	2	Projectile	SW to NE (assessed as inside the disengagement area near Petrivske)	N/K	30-Oct, 00:08
	2-4km SE	Recorded	1	Projectile	SW to NE (assessed as inside the disengagement area near Petrivske)	N/K	30-Oct, 00:24
	2-4km E	Recorded	2	Projectile	NNE to SSW (assessed as inside the disengagement area near Petrivske)	N/K	30-Oct, 03:04
	2-4km ESE	Recorded	1	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	30-Oct, 03:43
	2-4km SE	Recorded	1	Projectile	SW to NE (assessed as inside the disengagement area near Petrivske)	N/K	30-Oct, 04:01
	2-4km SE	Recorded	2	Projectile	SW to NE (assessed as inside the disengagement area near Petrivske)	N/K	30-Oct, 04:43
SMM camera in	2-4km SE	Recorded	1	Projectile	In vertical flight	N/K	29-Oct, 18:09
Chermalyk (government-	2-4km SSE	Recorded	3	Projectile	SW to NE	N/K	29-Oct, 18:10
controlled, 77km S of	2-4km SSE	Recorded	1	Projectile	In vertical flight	N/K	29-Oct, 18:10
Donetsk)	2-4km ESE	Recorded	1	0	-	N/K	
				Projectile	WSW to ENE		29-Oct, 18:54
SMM camera 1.5km NE	2-4km ESE	Recorded	1	Muzzle flash		N/K	29-Oct, 18:54
of Hnutove (government-	2-4km ESE	Recorded	1	Projectile	WSW to ENE	N/K	29-Oct, 18:55
controlled, 90km S of Donetsk)	2-4km ESE 2-4km ESE	Recorded Recorded	1	Explosion Illumination	Undetermined In vertical flight	N/K N/K	29-Oct, 18:55 29-Oct, 19:09
	2-4km ESE	Desculad	1	flare	N to S		
SMM camera at entry-exit		Recorded	1	Projectile Illumination		N/K	29-Oct, 19:22
checkpoint in Maiorsk (government-controlled,	3-5km ESE	Recorded	1	flare	In vertical flight	N/K	29-Oct, 18:59
45km NE of Donetsk) SMM camera at Oktiabr	3-5km ENE	Recorded	1	Projectile	In vertical flight	N/K	29-Oct, 19:07
mine (non-government- controlled, 9km NW of	4-6km W	Recorded	2	Projectile	S to N	N/K	29-Oct, 20:11
Donetsk city centre)	4-6km W 0.2-1.5km	Recorded	15	Projectile	N to S W to E (assessed as inside the	N/K	29-Oct, 21:30
	SSW	Recorded	9	Projectile	disengagement area)	N/K	29-Oct, 21:29
	1.5-2km SSW	Recorded	3	Explosion	Undetermined (assessed as inside the disengagement area)	N/K	29-Oct, 21:31
SMM camera in Petrivske (non-government-	0.2-1.5km SSW	Recorded	4	Projectile	W to E (assessed as inside the disengagement area)	N/K	29-Oct, 22:09
controlled, 41km S of Donetsk)	0.2-1.5km SSW	Recorded	4	Explosion	Undetermined (assessed as inside the disengagement area)	N/K	29-Oct, 22:09
	0.2-1.5km SSW	Recorded	1	Projectile	W to E (assessed as inside the disengagement area)	N/K	29-Oct, 22:10
	0.2-1.5km				W to E (assessed as inside the		

W to E (assessed as inside the disengagement area)

N/K

29-Oct, 22:11

0.2-1.5km SSW

Recorded

2

Projectile

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	0.2-1.5km SSW	Recorded	2	Explosion	Undetermined (assessed as inside the disengagement area)	N/K	29-Oct, 22:11
	0.2-1.5km SSW	Recorded	3	Projectile	W to E (assessed as inside the disengagement area)	N/K	29-Oct, 22:13
	0.2-1.5km SSW	Recorded	1	Explosion	Undetermined (assessed as inside the disengagement area)	N/K	29-Oct, 22:13
	0.2-1.5km SSW	Recorded	8	Projectile	W to E (assessed as inside the disengagement area)	N/K	29-Oct, 22:14
	0.2-1.5km SSW	Recorded	2	Projectile	W to E (assessed as inside the disengagement area)	N/K	29-Oct, 22:15
	0.2-1.5km SSW	Recorded	2	Explosion	Impact (subsequent to previous event, assessed as inside the disengagement area)	N/K	29-Oct, 22:15
	2-4km SSW	Recorded	4	Projectile	NE to SW (unable to be assessed if inside or outside the disengagement area)	N/K	30-Oct, 00:07
	2-4km SSW	Recorded	1	Muzzle flash	Unable to be assessed if inside or outside the disengagement area	N/K	30-Oct, 00:07
	3-5km N	Recorded	3	Projectile	SE to NW	N/K	29-Oct, 18:50
	3-5km N	Recorded	2	Projectile	SE to NW	N/K	29-Oct, 18:52
	3-5km N	Recorded	1	Muzzle flash		N/K	29-Oct, 18:53
	3-5km N	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	29-Oct, 18:53
	3-5km N	Recorded	1	Muzzle flash		N/K	29-Oct, 18:53
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	29-Oct, 18:53
	3-5km N	Recorded	1	Projectile	WSW to ENE	N/K	29-Oct, 18:54
	3-5km N	Recorded	2	Explosion	Undetermined	N/K	29-Oct, 18:55
	3-5km N	Recorded	1	Projectile	ESE to WNW	N/K	29-Oct, 18:55
	3-5km N	Recorded	4	Projectile	E to W	N/K	29-Oct, 18:58
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	29-Oct, 19:05
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	29-Oct, 19:32
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	29-Oct, 19:38
	4-6km N	Recorded	4	Projectile	E to W	N/K	29-Oct, 19:38
	4-6km NNE	Recorded	1	Projectile	E to W	N/K	29-Oct, 19:41
	4-6km N	Recorded	2	Projectile	E to W	N/K	29-Oct, 19:46
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	29-Oct, 19:49
	4-6km N	Recorded	1	Muzzle flash		N/K	29-Oct, 19:50
SMM camera 1km SW of	4-6km N	Recorded	2	Explosion	Undetermined	N/K	29-Oct, 19:50
Shyrokyne (government- controlled, 100km S of	4-6km N	Recorded	2	Explosion	Undetermined	N/K	29-Oct, 19:55
Donetsk)	4-6km N	Recorded	1	Projectile	E to W	N/K	29-Oct, 19:55
	4-6km N	Recorded	3	Explosion	Undetermined	N/K	29-Oct, 19:56
	4-6km N	Recorded	1	Illumination flare	In vertical flight	N/K	29-Oct, 19:56
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	29-Oct, 19:59
	4-6km N	Recorded	1	Projectile	E to W	N/K	29-Oct, 19:59
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	29-Oct, 20:01
	4-6km N	Recorded	2	Projectile	W to E	N/K	29-Oct, 20:01
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	29-Oct, 20:09
	4-6km NNW	Recorded	1	Explosion	Undetermined	N/K	29-Oct, 20:09
	4-6km N	Recorded	8	Projectile	W to E	N/K	29-Oct, 20:13
	4-6km NNW	Recorded	1	Muzzle flash		N/K	29-Oct, 20:20
	4-6km NNW	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	29-Oct, 20:20
	4-6km N	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	29-Oct, 20:20
	4-6km NNW	Recorded	1	Muzzle flash		N/K	29-Oct, 20:21

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	4-6km NNW	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	29-Oct, 20:21
	4-6km NNW	Recorded	1	Muzzle flash		N/K	29-Oct, 20:23
	4-6km NNW	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	29-Oct, 20:23
	4-6km N	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	29-Oct, 20:23
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	29-Oct, 20:26
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	29-Oct, 20:29
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	29-Oct, 20:34
	4-6km N	Recorded	13	Projectile	W to E	N/K	29-Oct, 20:34
	4-6km N	Recorded	3	Projectile	W to E	N/K	29-Oct, 20:40
	4-6km N	Recorded	17	Projectile	W to E	N/K	29-Oct, 20:57
	4-6km N	Recorded	1	Projectile	W to E	N/K	29-Oct, 21:26
	4-6km N	Recorded	2	Illumination flare	In vertical flight	N/K	29-Oct, 21:44
	4-6km N	Recorded	1	Illumination flare	In vertical flight	N/K	29-Oct, 22:36
	4-6km N	Recorded	3	Projectile	W to E	N/K	29-Oct, 23:12
	4-6km N	Recorded	1	Projectile	E to W	N/K	29-Oct, 23:13
	4-6km N	Recorded	2	Projectile	W to E	N/K	29-Oct, 23:13
	4-6km N	Recorded	1	Projectile	E to W	N/K	29-Oct, 23:14
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	30-Oct, 00:50
	4-6km N	Recorded	1	Muzzle flash	1	N/K	30-Oct, 00:50
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	30-Oct, 02:05
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	30-Oct, 02:08
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	30-Oct, 02:10
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	30-Oct, 02:37
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	30-Oct, 02:41
	4-6km N	Recorded	2	Projectile	E to W	N/K	30-Oct, 04:07
SMM camera in Svitlodarsk (government- controlled, 57km NE of Donetsk)	4-6km WSW	Recorded	3	Explosion	Undetermined	N/K	29-Oct, 23:47
About 800m ENE of Zhabunki (non- government-controlled, 9km NW of Donetsk)	3-5km WNW	Heard	1	Explosion	Undetermined	N/K	30-Oct, 12:25
About 300m NE of Zhabunki (non- government-controlled, 9km NW of Donetsk)	4-6km NNW	Heard	1	Explosion	Undetermined	N/K	30-Oct, 12:40
Troitske (government- controlled, 30km N of Donetsk)	2-3km E	Heard	3	Burst		Small arms	30-Oct, 10:48
About 2.1km WNW of Pisky (government-	1-3km SSE	Heard	6	Burst		Small arms	30-Oct, 12:52- 12:53
controlled, 12km NW of Donetsk)	1-3km SSE	Heard	4	Shot		Small arms	30-Oct, 12:52- 12:53
About 2.5km SE of	2-3km NE	Heard	12	Burst		Small arms	30-Oct, 10:39- 10:45
Lebedynske (government- controlled, 99km S of	2-3km NE	Heard	5	Shot		Small arms	30-Oct, 10:39- 10:45
Donetsk)	1-2km E	Heard	1	Explosion	Undetermined	N/K	30-Oct, 10:39- 10:45
About 2km NE of Chernenko (government-	1.5-2km E	Heard	1	Explosion	Undetermined	N/K	30-Oct, 12:08- 12:18
controlled, 86km S of Donetsk)	1.5-2km E	Heard	2	Burst		Small arms	30-Oct, 12:08- 12:18

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	1.5-2km E	Heard	5	Shot		Small arms	30-Oct, 12:08- 12:18
Orlivske (government-	4-6km NE	Heard	1	Explosion	Undetermined	N/K	30-Oct, 10:54
controlled, 82km S of Donetsk)	4-6km E	Heard	5	Shot		Small arms	30-Oct, 11:04
Hranitne (government- controlled, 60km S of Donetsk)	1-2km NW	Heard	1	Explosion	Undetermined	N/K	30-Oct, 12:16
	4-6km ESE	Recorded	1	Illumination flare	In vertical flight (assessed as outside the disengagement area near Zolote)	N/K	29-Oct, 18:10
	4-6km ESE	Recorded	1	Muzzle flash	Assessed as outside the disengagement area near Zolote)	N/K	29-Oct, 18:10
	4-6km ESE	Recorded	1	Projectile	NNE to SSW (subsequent to previous event, assessed as outside the disengagement area near Zolote)	N/K	29-Oct, 18:10
	4-6km ESE	Recorded	1	Projectile	S to N (assessed as outside the disengagement area near Zolote)	N/K	29-Oct, 18:12
	4-6km ESE	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	29-Oct, 18:13
SMM camera on N edge of Popasna (government-	4-6km ESE	Recorded	1	Muzzle flash	Assessed as outside the disengagement area near Zolote)	N/K	29-Oct, 18:13
controlled, 69km W of Luhansk)	4-6km ESE	Recorded	1	Projectile	In vertical flight (subsequent to previous event, (assessed as outside the disengagement area near Zolote))	N/K	29-Oct, 18:13
	4-6km ESE	Recorded	2	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	29-Oct, 18:14
	4-6km ESE	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	29-Oct, 18:15
	4-6km ESE	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	29-Oct, 18:25
	4-6km ESE	Recorded	1	Projectile	SSW to NNE (assessed as outside the disengagement area near Zolote)	N/K	29-Oct, 18:26
	4-6km ESE	Recorded	1	Projectile	NNE to SSW (assessed as outside the disengagement area near Zolote)	N/K	29-Oct, 18:26
	4-6km E	Heard	2	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	29-Oct, 21:28- 21:50
	4-6km E	Heard	10	Burst	Assessed as outside the disengagement area near Zolote	Small arms	29-Oct, 21:28- 21:50
	4-6km E	Heard	3	Burst	Assessed as outside the disengagement area near Zolote	HMG	29-Oct, 21:28- 21:50
	4-6km E	Heard and saw	6	Explosion	Impact (assessed as outside the disengagement area near Zolote)	N/K	30-Oct, 15:45- 16:00
	3-5km SE	Heard	2	Explosion	Undetermined	N/K	30-Oct, 15:45- 16:00
N des of D	4-6km E	Heard and saw	14	Explosion	Impact (assessed as outside the disengagement area near Zolote)	N/K	30-Oct, 16:10- 17:00
N edge of Popasna (government-controlled, 69km W of Luhansk)	4-6km E	Heard	14	Burst	Assessed as outside the disengagement area near Zolote	HMG	30-Oct, 16:10- 17:00
OFKIN W OI LUNDISK)	3-5km ESE	Heard	10	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	30-Oct, 16:10- 17:00
	3-5km ESE	Heard	11	Burst	Assessed as outside the disengagement area near Zolote	HMG	30-Oct, 16:10- 17:00
	3-5km ESE	Heard	35	Burst	Assessed as outside the disengagement area near Zolote	Small arms	30-Oct, 16:10- 17:00
	3-5km SE	Heard	5	Explosion	Undetermined	N/K	30-Oct, 16:10- 17:00
	4-6km E	Heard	6	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	30-Oct, 17:10- 17:40
	4-6km E	Heard	23	Burst	Assessed as outside the disengagement area near Zolote	HMG	30-Oct, 17:10- 17:40

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	4-6km E	Heard	25	Burst	Assessed as outside the disengagement area near Zolote	Small arms	30-Oct, 17:10- 17:40
	4-6km E	Saw	1	Illumination flare	In vertical flight (assessed as outside the disengagement area near Zolote)	N/K	30-Oct, 17:10- 17:40
	3-5km ESE	Heard	13	Burst	Assessed as outside the disengagement area near Zolote	Small arms	30-Oct, 17:10- 17:40
	3-5km ESE	Heard	8	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	30-Oct, 17:10- 17:40
W edge of Stanytsia Luhanska (government- controlled, 16km NE of Luhansk)	1-2km SSW	Heard	15	Shot	Assessed as outside the disengagement area	Small arms	30-Oct, 14:30- 14:32
SMM camera 2km E of Bohdanivka (government-	1-3km ESE	Recorded	6	Projectile	NNE to SSW (assessed as inside the disengagement area near Petrivske)	N/K	31-Oct, 01:17
controlled, 41km SW of Donetsk)	1-3km ESE	Recorded	3	Projectile	NNE to SSW (assessed as inside the disengagement area near Petrivske)	N/K	31-Oct, 01:45
SMM camera 1.5km NE of Hnutove (government- controlled, 90km S of Donetsk)	5-7km ESE	Recorded	1	Explosion	Undetermined	N/K	30-Oct, 21:34
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	2-4km E	Recorded	1	Explosion	Undetermined	N/K	31-Oct, 01:30
	2-4km W	Recorded	32	Projectile	N to S	N/K	31-Oct, 17:01
	2-4km W	Recorded	12	Projectile	N to S	N/K	31-Oct, 17:02
	2-4km W	Recorded	10	Projectile	N to S	N/K	31-Oct, 17:07
SMM camera at Oktiabr	2-4km W	Recorded	12	Projectile	N to S	N/K	31-Oct, 17:08
mine (non-government- controlled, 9km NW of	2-4km W	Recorded	3	Projectile	N to S	N/K	31-Oct, 17:09
Donetsk city centre)	2-4km W	Recorded	42	Projectile	N to S	N/K	31-Oct, 17:23
Donetsk enty centre)	2-4km W	Recorded	2	Projectile	N to S	N/K	31-Oct, 17:54
	2-4km W	Recorded	6	Projectile	N to S	N/K	31-Oct, 17:57
	2-4km W	Recorded	31	Projectile	N to S	N/K	31-Oct, 17:59
	3-5km N	Recorded	5	Projectile	E to W	N/K	30-Oct, 18:59
	3-5km N	Recorded	1	Projectile	E to W	N/K	30-Oct, 19:01
	3-5km N	Recorded	6	Projectile	E to W	N/K	30-Oct, 19:02
	3-5km N	Recorded	1	Projectile	SE to NW	N/K	30-Oct, 20:57
	3-5km N	Recorded	2	Projectile	SE to NW	N/K	31-Oct, 00:03
	3-5km N	Recorded	1	Projectile	SW to NE	N/K	31-Oct, 00:03
	3-5km N	Recorded	1	Projectile	S to N	N/K	31-Oct, 01:14
	3-5km N	Recorded	1	Projectile	S to N	N/K	31-Oct, 01:15
	4-6km N	Recorded	1	Illumination flare	In vertical flight	N/K	31-Oct, 17:21
	4-6km N	Recorded	8	Projectile	W to E	N/K	31-Oct, 17:36
SMM camera 1km SW of	4-6km N	Recorded	1	Projectile	W to E	N/K	31-Oct, 17:38
Shyrokyne (government-	4-6km N	Recorded	2	Explosion	Undetermined	N/K	31-Oct, 17:42
controlled, 100km S of	4-6km N	Recorded	1	Explosion	Undetermined	N/K	31-Oct, 17:43
Donetsk)	4-6km N	Recorded	1	Muzzle flash		N/K	31-Oct, 17:46
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	31-Oct, 17:48
	4-6km N	Recorded	4	Projectile	W to E	N/K	31-Oct, 17:49
	4-6km N 4-6km N	Recorded Recorded	2	Muzzle flash Illumination	In vertical flight	N/K N/K	31-Oct, 18:13 31-Oct, 18:14
				flare	-		
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	31-Oct, 18:14
	4-6km N	Recorded	21	Projectile	E to W	N/K	31-Oct, 18:14
	4-6km N	Recorded	5	Explosion	Undetermined	N/K	31-Oct, 18:15
	4-6km N	Recorded	17	Projectile	E to W	N/K	31-Oct, 18:15
	4-6km N	Recorded	3	Projectile	E to W	N/K	31-Oct, 18:17
	4-6km N	Recorded	6	Projectile	W to E	N/K	31-Oct, 18:37

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	4-6km N	Recorded	1	Projectile	WSW to ENE	N/K	31-Oct, 18:39
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	31-Oct, 18:45
Donetsk city centre (non- government-controlled)	10km WSW	Heard	30	Explosion	Undetermined	N/K	31-Oct, 02:45- 04:00
government-controlled)	10km WSW	Heard	10	Explosion	Undetermined	N/K	31-Oct, 05:00
About 2.5km SSE of Lomakyne (government-	2-3km E	Heard	95	Shot		N/K	31-Oct, 10:30- 10:37
controlled, 93km S of Donetsk)	2-3km E	Heard	6	Burst		HMG	31-Oct, 10:30- 10:37
	4-6km ENE	Recorded	1	Projectile	N to S (assessed as outside the disengagement area)	N/K	30-Oct, 19:51
	4-6km ENE	Recorded	1	Projectile	N to S (assessed as outside the disengagement area)	N/K	30-Oct, 20:17
	4-6km ENE	Recorded	1	Projectile	N to S (assessed as outside the disengagement area)	N/K	30-Oct, 20:26
	4-6km E	Recorded	2	Projectile	In vertical flight (assessed as outside the disengagement area)	N/K	30-Oct, 20:35
	4-6km ENE	Recorded	1	Projectile	N to S (assessed as outside the disengagement area)	N/K	30-Oct, 20:49
	4-6km ENE	Recorded	1	Projectile	N to S (assessed as outside the disengagement area)	N/K	30-Oct, 21:11
SMM camera in Zolote	4-6km ENE	Recorded	1	Projectile	N to S (assessed as outside the disengagement area)	N/K	30-Oct, 21:17
(government-controlled, 60km W of Luhansk)	2-3km ESE	Recorded	1	Projectile	N to S (assessed as outside the disengagement area)	N/K	31-Oct, 16:59
ookiii w of Lunansk)	2-3km ESE	Recorded	1	Projectile	N to S (assessed as outside the disengagement area)	N/K	31-Oct, 17:00
	2-3km ESE	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	31-Oct, 17:06
	1-3km ENE	Recorded	1	Projectile	N to S (assessed as outside the disengagement area)	N/K	31-Oct, 17:16
	1-3km ENE	Recorded	1	Projectile	N to S (assessed as outside the disengagement area)	N/K	31-Oct, 17:18
	1-3km ENE	Recorded	1	Projectile	N to S (assessed as outside the disengagement area)	N/K	31-Oct, 17:21
	1-3km ENE	Recorded	1	Projectile	N to S (assessed as outside the disengagement area)	N/K	31-Oct, 17:22
	1-3km ENE	Recorded	1	Projectile	N to S (assessed as outside the disengagement area)	N/K	31-Oct, 17:39
About 3km N of Pervomaisk (non- government-controlled, 58km W of Luhansk)	5-6km NNE	Heard	3	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	31-Oct, 09:34- 09:36
E edge of Popasna (government-controlled, 69km W of Luhansk)	3-5km ENE	Heard	7	Burst	Assessed as outside the disengagement area near Zolote	HMG	31-Oct, 09:55
Disengagement area near Stanytsia Luhanska	4-6km SW	Heard	8	Burst	Assessed as outside the disengagement area	HMG	31-Oct, 09:47- 09:48
(government-controlled, 16km NE of Luhansk)	4-6km SW	Heard	221	Shot	Assessed as outside the disengagement area	HMG	31-Oct, 09:53- 10:11
SSE edge of Popasna (government-controlled, 69km W of Luhansk)	2-2.5km E	Heard	2	Burst		HMG	31-Oct, 13:55