

Table of ceasefire violations as of 3 November 2019⁹

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	2-5km SSE	Recorded	5	Projectile	WSW to ENE	N/K	1-Nov, 23:34
	2-5km SSE	Recorded	1	Projectile	WSW to ENE	N/K	1-Nov, 23:35
	2-5km SSE	Recorded	1	Illumination flare	In vertical flight	N/K	2-Nov, 01:58
SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk)	3-5km ENE	Recorded	1	Projectile	N to S	N/K	1-Nov, 18:44
	3-5km ENE	Recorded	4	Projectile	N to S (also recorded by the SMM camera in Pyshevyk)	N/K	1-Nov, 18:50
	3-5km ENE	Recorded	3	Projectile	N to S (also recorded by the SMM camera in Pyshevyk)	N/K	1-Nov, 18:51
	3-5km ENE	Recorded	11	Projectile	S to N	N/K	1-Nov, 18:53
	3-5km ENE	Recorded	4	Projectile	N to S	N/K	1-Nov, 18:53
	3-5km ENE	Recorded	9	Projectile	N to S	N/K	1-Nov, 18:58
	3-5km NE	Recorded	7	Projectile	N to S	N/K	1-Nov, 20:43
	3-5km ENE	Recorded	1	Projectile	N to S	N/K	1-Nov, 20:44
	3-5km NE	Recorded	2	Projectile	N to S	N/K	1-Nov, 20:45
	3-5km NE	Recorded	5	Projectile	N to S	N/K	1-Nov, 20:48
	3-5km NE	Recorded	9	Projectile	N to S	N/K	1-Nov, 20:51
	3-5km NE	Recorded	1	Projectile	N to S	N/K	1-Nov, 21:01
	3-5km NE	Recorded	2	Projectile	N to S	N/K	1-Nov, 21:51
	3-5km NE	Recorded	5	Projectile	N to S	N/K	1-Nov, 21:52
	3-5km E	Recorded	2	Explosion		N/K	1-Nov, 22:25
	3-5km E	Recorded	2	Explosion	Undetermined	N/K	1-Nov, 22:26
	3-5km E	Recorded	4	Projectile	SW to NE	N/K	1-Nov, 22:34
	3-5km E	Recorded	1	Projectile	SW to NE	N/K	1-Nov, 23:48
	3-5km E	Recorded	1	Projectile	NW to SE	N/K	2-Nov, 00:09
	3-5km ENE	Recorded	6	Projectile	S to N	N/K	2-Nov, 00:48
	3-5km ENE	Recorded	3	Projectile	S to N	N/K	2-Nov, 00:49
	3-5km ENE	Recorded	7	Projectile	SW to NE	N/K	2-Nov, 00:50
	3-5km ENE	Recorded	1	Projectile	SW to NE	N/K	2-Nov, 01:24
	3-5km ENE	Recorded	2	Projectile	N to S	N/K	2-Nov, 01:34
	3-5km NE	Recorded	1	Explosion	Undetermined	N/K	2-Nov, 02:37
	3-5km ENE	Recorded	3	Projectile	In vertical flight	N/K	2-Nov, 02:37
	3-5km ENE	Recorded	5	Projectile	N to S	N/K	2-Nov, 02:37
	3-5km ENE	Recorded	8	Projectile	WSW to ENE	N/K	2-Nov, 02:37
	3-5km E	Recorded	2	Projectile	S to N	N/K	2-Nov, 17:14
	3-5km E	Recorded	1	Projectile	S to N	N/K	2-Nov, 17:18
3-5km E	Recorded	3	Projectile	S to N	N/K	2-Nov, 17:19	
3-5km E	Recorded	1	Projectile	S to N	N/K	2-Nov, 17:23	
SMM camera in Hranitne (government-controlled, 60km S of Donetsk)	2-4km ESE	Recorded	2	Projectile	NW to SE	N/K	1-Nov, 22:14

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

SMM camera in Krasnohorivka (government-controlled, 21km W of Donetsk)	3-5km E	Recorded	1	Projectile	N to S	N/K	1-Nov, 22:22
	2-5km E	Recorded	1	Projectile	N to S	N/K	1-Nov, 22:37
SMM camera E of Lomakyne (government-controlled, 93km S of Donetsk)	3-5km ENE	Recorded	2	Projectile	SE to NW	N/K	1-Nov, 19:05
	2-6km ENE	Recorded	1	Explosion	Undetermined	N/K	2-Nov, 02:37
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	2-5km ENE	Recorded	4	Projectile	N to S	N/K	1-Nov, 20:09
	2-5km E	Recorded	1	Illumination flare	In vertical flight	N/K	1-Nov, 20:13
	2-5km ENE	Recorded	8	Projectile	N to S	N/K	1-Nov, 20:52
	2-5km ENE	Recorded	3	Projectile	N to S	N/K	1-Nov, 23:02
	2-5km E	Recorded	1	Projectile	NW to SE	N/K	1-Nov, 23:25
	2-4km ENE	Recorded	2	Projectile	N to S	N/K	2-Nov, 02:15
	2-4km ENE	Recorded	1	Projectile	N to S	N/K	2-Nov, 02:18
	2-4km E	Recorded	4	Projectile	N to S	N/K	2-Nov, 02:33
	2-5km ENE	Recorded	5	Projectile	N to S	N/K	2-Nov, 02:48
	2-5km ENE	Recorded	3	Projectile	N to S	N/K	2-Nov, 02:49
	2-5km E	Recorded	1	Projectile	S to N	N/K	2-Nov, 03:30
	2-5km ENE	Recorded	21	Projectile	N to S	N/K	2-Nov, 18:13
	2-5km ENE	Recorded	13	Projectile	N to S	N/K	2-Nov, 18:14
	2-5km ENE	Recorded	1	Projectile	N to S	N/K	2-Nov, 18:15
	2-5km ENE	Recorded	1	Projectile	N to S	N/K	2-Nov, 18:17
	2-5km ENE	Recorded	13	Projectile	N to S	N/K	2-Nov, 18:18
	2-5km ENE	Recorded	18	Projectile	N to S	N/K	2-Nov, 18:19
SMM camera in Petrivske (non-government-controlled, 41km S of Donetsk)	0.1-1km NW	Recorded	1	Projectile	NE to SW (assessed as outside the disengagement area)	N/K	22-Oct, 13:13
SMM camera at entry-exit checkpoint in Pyshevyk (government-controlled, 84km S of Donetsk)	2-4km S	Recorded	1	Projectile	NE to SW	N/K	1-Nov, 18:51
	2-4km S	Recorded	3	Projectile	W to E	N/K	1-Nov, 19:50
	3-5km S	Recorded	5	Projectile	E to W	N/K	1-Nov, 20:48
	3-5km S	Recorded	1	Projectile	In vertical flight	N/K	1-Nov, 20:49
	3-5km S	Recorded	10	Projectile	E to W	N/K	1-Nov, 20:51
	3-5km SSE	Recorded	1	Projectile	E to W	N/K	1-Nov, 21:01
	3-5km SSE	Recorded	2	Projectile	E to W	N/K	1-Nov, 21:05
	3-5km SSE	Recorded	1	Burst	W to E	N/K	1-Nov, 21:05
	3-5km S	Recorded	5	Projectile	E to W	N/K	1-Nov, 21:52
	3-5km S	Recorded	1	Projectile	E to W	N/K	1-Nov, 22:40
	3-5km SSE	Recorded	7	Projectile	W to E	N/K	1-Nov, 22:41
	3-5km SSE	Recorded	6	Projectile	W to E	N/K	1-Nov, 23:23
	3-5km SSE	Recorded	6	Projectile	W to E	N/K	1-Nov, 23:24
	3-5km SSE	Recorded	4	Projectile	W to E	N/K	2-Nov, 00:39
	3-5km S	Recorded	4	Projectile	E to W	N/K	2-Nov, 01:34
	3-5km SSE	Recorded	1	Explosion	Also recorded by the SMM camera in Hnutove	N/K	2-Nov, 02:10
	3-5km S	Recorded	7	Projectile	E to W	N/K	2-Nov, 02:37
	3-5km S	Recorded	1	Burst	In vertical flight	N/K	2-Nov, 04:57
4-6km SSE	Recorded	23	Projectile	W to E	N/K	2-Nov, 17:44	
4-6km SSE	Recorded	6	Projectile	W to E	N/K	2-Nov, 17:45	
About 1km N of the railway station in Yasynuvata (non-government-controlled, 16km NE)	2-3km W	Heard	1	Explosion	Undetermined	N/K	2-Nov, 08:57
	2-3km W	Heard	1	Burst		HMG	2-Nov, 08:57
	2-3km SW	Heard	10	Burst		HMG	2-Nov, 09:20
	2-4km SW	Heard	1	Explosion	Undetermined	N/K	2-Nov, 12:23
	2-4km SW	Heard	4	Burst		Small	2-Nov, 12:33

of Donetsk)						arms	
	4-5km NW	Heard	2	Explosion	Undetermined	N/K	2-Nov, 12:55
	4-5km NW	Heard	2	Explosion	Undetermined	N/K	2-Nov, 13:04
	2-3km W	Heard	4	Burst		HMG	2-Nov, 13:05
Petrovskiyi (non-government-controlled, 15km SW of Donetsk city centre)	2km SW	Heard	3	Burst		Small arms	2-Nov, 10:39
	2km SW	Heard	8	Burst		Small arms	2-Nov, 10:55
	2km SW	Heard	3	Shot		Small arms	2-Nov, 10:55
	2km SW	Heard	3	Burst		Small arms	2-Nov, 11:03
	2km SW	Heard	1	Shot		Small arms	2-Nov, 11:03
	1km SSW	Heard	23	Burst		Small arms	2-Nov, 11:11
	2-3km SW	Heard	3	Burst		Small arms	2-Nov, 11:19
About 1.8km N of Petrivske (non-government-controlled, 41km S of Donetsk)	8-12km W	Heard	4	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	2-Nov, 09:29
	4-6km SE	Heard	3	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	2-Nov, 09:48
About 2.6km SSE of Lomakyne (government-controlled, 93km S of Donetsk)	2-3km NE	Heard	1	Explosion	Undetermined	N/K	2-Nov, 12:04
About 2km SW of Pyshevyk (government-controlled, 84km south of Donetsk)	3-4km SE	Heard and saw	1	Explosion	Impact	N/K	2-Nov, 13:03
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	3-5km S	Heard	5	Burst		HMG	2-Nov, 08:55
	3-5km S	Heard	1	Explosion	Undetermined	N/K	2-Nov, 08:55
Troitske (government-controlled, 30km N of Donetsk)	3-4km N	Heard	3	Explosion	Undetermined	N/K	2-Nov, 11:25
	3-4km N	Heard	1	Explosion	Undetermined	N/K	2-Nov, 11:31
	3-4km N	Heard	1	Explosion	Undetermined	N/K	2-Nov, 11:37
About 1.7 km NW of Novoselivka (government-controlled, 31km north-east of Donetsk)	3km NE	Heard	3	Explosion	Undetermined	N/K	2-Nov, 11:25
	3km NE	Heard	1	Explosion	Undetermined	N/K	2-Nov, 11:31
	3km NE	Heard	1	Explosion	Undetermined	N/K	2-Nov, 11:37
N edge of Verkhnotoretske (government-controlled, 23km NE of Donetsk)	2-3km SE	Heard	4	Explosion	Undetermined	N/K	2-Nov, 12:06
Svitlodarsk (government-controlled, 57km NE of Donetsk)	3-5km S	Heard	2	Explosion	Undetermined	N/K	2-Nov, 16:22
	3-5km S	Heard	12	Shot		Small arms	2-Nov, 16:50
1.7km SW of Molodizhne (non-government-controlled, 63km W of Luhansk)	8-10km NNW	Heard	2	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	2-Nov, 09:15-09:20

SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	2-5km SSE	Recorded	3	Projectile	WSW to ENE	N/K	2-Nov, 18:44
	2-4km SSE	Recorded	5	Projectile	NE to SW	N/K	2-Nov, 21:47
	2-4km SSE	Recorded	2	Projectile	WSW to ENE	N/K	2-Nov, 21:55
	2-4km SSE	Recorded	2	Projectile	WSW to ENE	N/K	2-Nov, 22:30
	2-4km SSE	Recorded	2	Projectile	ENE to WSW	N/K	3-Nov, 00:08
	2-4km SSE	Recorded	1	Projectile	W to E	N/K	3-Nov, 00:38
	2-4km S	Recorded	1	Projectile	W to E	N/K	3-Nov, 02:43
	2-4km S	Recorded	1	Projectile	WSW to ENE	N/K	3-Nov, 03:25
	2-4km S	Recorded	2	Projectile	WSW to ENE	N/K	3-Nov, 03:26
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	0.7-1km SSE	Recorded	3	Explosion	Undetermined	N/K	2-Nov, 20:33
	0.7-1km SSW	Recorded	1	Explosion	Undetermined	N/K	2-Nov, 20:42
	0.7-1km SSW	Recorded	1	Explosion	Undetermined	N/K	2-Nov, 21:20
	0.7-1km SSW	Recorded	2	Explosion	Undetermined	N/K	2-Nov, 21:42
	0.7-1km SSW	Recorded	2	Explosion	Undetermined	N/K	2-Nov, 21:49
	0.7-1km S	Recorded	1	Projectile	W to E	N/K	2-Nov, 22:13
	0.7-2km S	Recorded	1	Explosion	Undetermined	N/K	2-Nov, 22:22
	0.7-1km S	Recorded	1	Projectile	W to E	N/K	2-Nov, 22:30
	0.7-1km S	Recorded	1	Explosion	Undetermined	N/K	2-Nov, 23:53
	0.7-2km S	Recorded	4	Projectile	W to E	N/K	3-Nov, 01:56
	0.7-2km S	Recorded	3	Projectile	In vertical flight	N/K	3-Nov, 01:56
	0.7-2km S	Recorded	1	Projectile	N to S	N/K	3-Nov, 01:56
	1-2km S	Recorded	1	Projectile	NW to SE	N/K	3-Nov, 02:52
	1-2km S	Recorded	3	Projectile	N to S	N/K	3-Nov, 02:53
	1-2km S	Recorded	4	Projectile	W to E	N/K	3-Nov, 02:53
	1-2km S	Recorded	1	Projectile	E to W	N/K	3-Nov, 02:53
1-2km SSW	Recorded	1	Projectile	E to W	N/K	3-Nov, 03:56	
SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk)	3-5km E	Recorded	1	Explosion	Undetermined	N/K	2-Nov, 20:37
	3-5km ENE	Recorded	1	Projectile	N to S	N/K	2-Nov, 21:07
	3-5km ENE	Recorded	4	Projectile	S to N	N/K	2-Nov, 21:07
	3-5km ENE	Recorded	1	Explosion	Undetermined	N/K	2-Nov, 21:08
	3-5km ENE	Recorded	1	Explosion	Undetermined	N/K	2-Nov, 21:07
	3-5km E	Recorded	9	Projectile	N to S	N/K	2-Nov, 23:09
	3-5km E	Recorded	10	Projectile	S to N	N/K	2-Nov, 23:21
	3-5km E	Recorded	5	Projectile	N to S	N/K	2-Nov, 23:21
	3-5km E	Recorded	9	Projectile		N/K	2-Nov, 23:22
	3-5km E	Recorded	7	Projectile	S to N	N/K	2-Nov, 23:23
	3-5km E	Recorded	6	Projectile	S to N	N/K	2-Nov, 23:24
	3-5km E	Recorded	3	Projectile	S to N	N/K	2-Nov, 23:35
	3-5km E	Recorded	4	Projectile	S to N	N/K	2-Nov, 23:38
	3-5km E	Recorded	10	Projectile	S to N	N/K	2-Nov, 23:42
	3-5km ENE	Recorded	11	Projectile	S to N	N/K	2-Nov, 23:43
	3-5km ENE	Recorded	13	Projectile	S to N	N/K	2-Nov, 23:44
	3-5km ENE	Recorded	4	Projectile	S to N	N/K	2-Nov, 23:45
	3-5km ENE	Recorded	2	Muzzle flash		N/K	2-Nov, 23:45
	3-5km ENE	Recorded	12	Projectile	S to N	N/K	2-Nov, 23:46
	3-5km ENE	Recorded	16	Projectile	S to N	N/K	3-Nov, 01:29
	3-5km ENE	Recorded	21	Projectile	S to N	N/K	3-Nov, 01:31
	3-5km ENE	Recorded	13	Projectile	S to N	N/K	3-Nov, 01:32
	3-5km ENE	Recorded	31	Projectile	S to N	N/K	3-Nov, 01:35
	3-5km ENE	Recorded	21	Projectile	S to N	N/K	3-Nov, 01:36
	3-5km ENE	Recorded	2	Projectile	S to N	N/K	3-Nov, 01:38
	3-5km E	Recorded	3	Projectile	S to N	N/K	3-Nov, 01:39
	3-5km E	Recorded	7	Projectile	S to N	N/K	3-Nov, 01:42
	3-5km E	Recorded	9	Projectile	S to N	N/K	3-Nov, 01:55
	3-5km ENE	Recorded	9	Projectile	S to N	N/K	3-Nov, 01:56
	3-5km E	Recorded	1	Projectile	S to N	N/K	3-Nov, 02:45
	3-5km E	Recorded	16	Projectile	S to N	N/K	3-Nov, 03:25
	3-5km E	Recorded	1	Explosion	Undetermined	N/K	3-Nov, 03:25

	3-5km E	Recorded	27	Projectile	S to N	N/K	3-Nov, 03:26
	3-5km E	Recorded	3	Projectile	S to N	N/K	3-Nov, 03:27
	3-5km E	Recorded	12	Projectile	S to N	N/K	3-Nov, 03:28
	3-5km E	Recorded	5	Projectile	S to N (also recorded by the SMM camera in Pyshevyk)	N/K	3-Nov, 17:06
	3-5km E	Recorded	2	Projectile	S to N (also recorded by the SMM camera in Pyshevyk)	N/K	3-Nov, 17:07
	3-5km E	Recorded	7	Projectile	S to N (also recorded by the SMM camera in Pyshevyk)	N/K	3-Nov, 17:11
	3-5km E	Recorded	6	Projectile	S to N (also recorded by the SMM camera in Pyshevyk)	N/K	3-Nov, 17:12
	3-5km E	Recorded	1	Projectile	N to S	N/K	3-Nov, 17:12
	3-5km E	Recorded	1	Projectile	S to N	N/K	3-Nov, 17:22
	3-5km E	Recorded	11	Projectile	WSW to ENE	N/K	3-Nov, 17:22
	3-5km E	Recorded	4	Projectile	S to N	N/K	3-Nov, 17:22
	3-5km E	Recorded	1	Projectile	S to N	N/K	3-Nov, 18:19
	3-5km E	Recorded	1	Projectile	S to N (also recorded by the SMM camera in Pyshevyk)	N/K	3-Nov, 18:22
SMM camera E of Lomakyne (government-controlled, 93km S of Donetsk)	2-5km ENE	Recorded	2	Projectile	NW to SE	N/K	2-Nov, 23:22
	2-5km ENE	Recorded	2	Muzzle flash		N/K	2-Nov, 23:22
	2-5km ENE	Recorded	2	Projectile	NW to SE	N/K	2-Nov, 23:24
	2-5km ENE	Recorded	1	Muzzle flash		N/K	2-Nov, 23:24
	2-5km ENE	Recorded	2	Projectile	NW to SE	N/K	2-Nov, 23:28
	2-5km ENE	Recorded	2	Projectile	NW to SE	N/K	2-Nov, 23:31
	2-5km ENE	Recorded	1	Muzzle flash		N/K	2-Nov, 23:31
	2-5km ENE	Recorded	2	Projectile	NW to SE	N/K	2-Nov, 23:32
	2-5km ENE	Recorded	5	Muzzle flash		N/K	2-Nov, 23:35
	2-5km ENE	Recorded	2	Projectile	NW to SE	N/K	2-Nov, 23:37
	2-5km ENE	Recorded	4	Muzzle flash		N/K	2-Nov, 23:37
	2-5km ENE	Recorded	2	Projectile	NW to SE	N/K	2-Nov, 23:38
	2-5km ENE	Recorded	2	Muzzle flash		N/K	2-Nov, 23:38
	2-5km ENE	Recorded	2	Projectile	NW to SE	N/K	2-Nov, 23:42
	2-5km ENE	Recorded	3	Muzzle flash		N/K	2-Nov, 23:42
	2-5km ENE	Recorded	1	Projectile	SE to NW	N/K	2-Nov, 23:43
	2-4km ENE	Recorded	6	Projectile	NW to SE	N/K	3-Nov, 01:29
	2-5km ENE	Recorded	8	Projectile	NW to SE	N/K	3-Nov, 01:31
	2-5km ENE	Recorded	6	Muzzle flash		N/K	3-Nov, 01:32
	2-5km ENE	Recorded	3	Projectile	NW to SE	N/K	3-Nov, 01:35
	2-5km ENE	Recorded	13	Projectile	NW to SE	N/K	3-Nov, 01:36
	2-5km ENE	Recorded	8	Projectile	NW to SE	N/K	3-Nov, 01:37
	2-5km ENE	Recorded	2	Projectile	NW to SE	N/K	3-Nov, 01:38
	2-5km ENE	Recorded	1	Projectile	NW to SE	N/K	3-Nov, 01:39
	2-5km ENE	Recorded	1	Projectile	NW to SE	N/K	3-Nov, 01:42
	2-5km ENE	Recorded	1	Muzzle flash		N/K	3-Nov, 02:32
	2-5km ENE	Recorded	1	Projectile	NW to SE	N/K	3-Nov, 02:43
	2-5km ENE	Recorded	1	Projectile	NW to SE	N/K	3-Nov, 03:25
	2-5km ENE	Recorded	3	Projectile	NW to SE	N/K	3-Nov, 03:25
	2-5km ENE	Recorded	2	Muzzle flash		N/K	3-Nov, 03:25
2-5km ENE	Recorded	10	Projectile	NW to SE	N/K	3-Nov, 03:26	
SMM camera at entry-	2-5km ENE	Recorded	4	Projectile	N to S	N/K	2-Nov, 18:30

exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	2-5km E	Recorded	8	Explosion	Undetermined	N/K	2-Nov, 18:31
	2-5km E	Recorded	3	Explosion	N to S (undetermined)	N/K	2-Nov, 18:33
	2-4km E	Recorded	5	Projectile	NW to SE	N/K	2-Nov, 22:05
	2-4km ENE	Recorded	1	Projectile	WNW to ESE	N/K	2-Nov, 22:08
	2-4km E	Recorded	5	Projectile	N to S	N/K	2-Nov, 22:09
	2-4km E	Recorded	1	Projectile	WNW to ESE	N/K	2-Nov, 22:09
	2-7km E	Recorded	1	Explosion	Impact (subsequent to the previous event)	N/K	2-Nov, 22:09
	2-4km E	Recorded	3	Projectile	N to S	N/K	2-Nov, 22:10
	2-4km E	Recorded	2	Projectile	NW to SE	N/K	2-Nov, 22:21
	2-4km E	Recorded	3	Projectile	NNW to SSE	N/K	2-Nov, 22:54
	2-7km E	Recorded	1	Projectile	W to E	N/K	3-Nov, 00:20
	2-7km E	Recorded	1	Explosion	Impact (subsequent to the previous event)	N/K	3-Nov, 00:20
	2-4km ENE	Recorded	1	Projectile	N to S	N/K	3-Nov, 02:06
	2-4km ENE	Recorded	1	Projectile	N to S	N/K	3-Nov, 02:07
	2-4km ENE	Recorded	2	Projectile	N to S	N/K	3-Nov, 02:19
	2-4km ENE	Recorded	1	Projectile	N to S	N/K	3-Nov, 02:26
SMM camera at entry-exit checkpoint in Pyshevyk (government-controlled, 84km S of Donetsk)	1-2km S	Recorded	1	Muzzle flash		N/K	2-Nov, 20:37
	3-5km SW	Recorded	2	Projectile	In vertical flight	N/K	2-Nov, 21:05
	3-5km SSE	Recorded	1	Projectile	E to W	N/K	2-Nov, 21:08
	1-2km SSE	Recorded	1	Projectile	W to E	N/K	2-Nov, 21:15
	1-2km SE	Recorded	1	Burst	NE to SW	N/K	2-Nov, 21:22
	3-5km S	Recorded	2	Projectile	E to W	N/K	2-Nov, 21:43
	3-5km S	Recorded	2	Projectile	E to W	N/K	2-Nov, 21:48
	3-5km S	Recorded	1	Projectile	NNE to SSW	N/K	2-Nov, 21:48
	3-5km SSE	Recorded	1	Projectile	ENE to WSW	N/K	2-Nov, 22:47
	3-5km SSE	Recorded	1	Burst	NW to SE	N/K	2-Nov, 22:54
	3-5km SSE	Recorded	1	Burst	NW to SE	N/K	2-Nov, 23:09
	3-5km S	Recorded	11	Projectile	NW to SE	N/K	2-Nov, 23:21
	3-5km S	Recorded	7	Projectile	N to S	N/K	2-Nov, 23:21
	3-5km S	Recorded	8	Projectile	NW to SE	N/K	2-Nov, 23:22
	3-5km S	Recorded	8	Projectile	NW to SE	N/K	2-Nov, 23:23
	3-5km S	Recorded	2	Projectile	NW to SE	N/K	2-Nov, 23:24
	3-5km S	Recorded	4	Projectile	NE to SW	N/K	2-Nov, 23:26
	3-5km S	Recorded	2	Projectile	NW to SE	N/K	2-Nov, 23:27
	3-5km S	Recorded	2	Projectile	N to S	N/K	2-Nov, 23:28
	3-5km S	Recorded	1	Projectile	NW to SE	N/K	2-Nov, 23:29
	3-5km S	Recorded	5	Projectile	N to S	N/K	2-Nov, 23:32
	3-5km S	Recorded	3	Projectile	NW to SE	N/K	2-Nov, 23:37
	3-5km S	Recorded	7	Projectile	NW to SE	N/K	2-Nov, 23:42
	3-5km S	Recorded	10	Projectile	NW to SE	N/K	2-Nov, 23:43
	3-5km SSE	Recorded	9	Projectile	NW to SE	N/K	2-Nov, 23:44
	3-5km SSE	Recorded	6	Projectile	NE to SW	N/K	2-Nov, 23:44
	3-5km SSE	Recorded	7	Projectile	NW to SE	N/K	2-Nov, 23:46
	3-5km SSE	Recorded	1	Projectile	NW to SE	N/K	2-Nov, 00:01
	3-5km S	Recorded	10	Projectile	NW to SE	N/K	3-Nov, 01:29
	3-5km S	Recorded	11	Projectile	NW to SE	N/K	3-Nov, 01:31
	3-5km S	Recorded	9	Projectile	NW to SE	N/K	3-Nov, 01:32
	3-5km S	Recorded	22	Projectile	NW to SE	N/K	3-Nov, 01:35
	3-5km S	Recorded	22	Projectile	NW to SE	N/K	3-Nov, 01:36
3-5km S	Recorded	5	Projectile	NW to SE	N/K	3-Nov, 01:37	
3-5km S	Recorded	10	Projectile	NW to SE	N/K	3-Nov, 01:42	
3-5km S	Recorded	2	Projectile	NE to SW	N/K	3-Nov, 01:31	
3-5km S	Recorded	2	Projectile	NE to SW	N/K	3-Nov, 01:32	
3-5km SSE	Recorded	1	Projectile	NE to SW	N/K	3-Nov, 02:05	

	3-5km SSE	Recorded	14	Projectile	NW to SE	N/K	3-Nov, 02:26
	3-5km SSE	Recorded	10	Projectile	NW to SE	N/K	3-Nov, 02:31
	3-5km SSE	Recorded	14	Projectile	NE to SW	N/K	3-Nov, 02:39
	3-5km SSE	Recorded	2	Projectile	NW to SE	N/K	3-Nov, 02:42
	3-5km SSE	Recorded	2	Projectile	NW to SE	N/K	3-Nov, 02:43
	3-5km SSE	Recorded	5	Projectile	NW to SE	N/K	3-Nov, 03:01
	4-6km S	Recorded	12	Projectile	WNW to ESE	N/K	3-Nov, 03:25
	4-6km SSW	Recorded	22	Projectile	NW to SE	N/K	3-Nov, 03:26
	4-6km S	Recorded	2	Projectile	N to S	N/K	3-Nov, 03:26
	4-6km SSW	Recorded	3	Projectile	NW to SE	N/K	3-Nov, 03:27
	4-6km SSW	Recorded	17	Projectile	NW to SE	N/K	3-Nov, 03:28
	3-5km SSE	Recorded	3	Projectile	NW to SE	N/K	3-Nov, 03:31
SMM camera in Svitlodarsk (government-controlled, 57km NE of Donetsk)	2-7km ESE	Recorded	2	Projectile	S to N	N/K	3-Nov, 03:32
	2-7km ESE	Recorded	2	Projectile	S to N	N/K	3-Nov, 04:34
About 1.8km N of Petrivske (non-government-controlled, 41km S of Donetsk)	3-4km NW	Heard	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	3-Nov, 10:48
About 1km NW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	1-2km W	Heard	4	Burst		HMG	3-Nov, 09:05
	1-2km W	Heard	5	Shot		HMG	3-Nov, 09:05
West part of Petrovskiyi (non-government-controlled, 15km SW of Donetsk city centre)	2-4km SW	Heard	1	Explosion	Undetermined	N/K	3-Nov, 11:46
NW part of Novohryhorivka (non-government-controlled, 61km NE of Donetsk)	3-5km WNW	Heard	5	Explosion	Undetermined	N/K	3-Nov, 12:15-12:24
	3-5km WNW	Heard	5	Explosion	Undetermined	N/K	3-Nov, 12:25-12:30
	3-5km WNW	Heard	3	Explosion	Undetermined	N/K	3-Nov, 12:35-12:37
	2-5km WNW	Heard	2	Explosion	Undetermined	N/K	3-Nov, 12:44
Svitlodarsk (government-controlled, 57km NE of Donetsk)	3-5km ESE	Heard	3	Explosion	Undetermined	N/K	2-Nov, 22:05
	3-5km SE	Heard	3	Explosion	Undetermined	N/K	2-Nov, 22:10
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	2-Nov, 22:14
	5-7km SE	Heard	2	Explosion	Undetermined	N/K	2-Nov, 22:21
	5-7km SE	Heard	1	Explosion	Undetermined	N/K	2-Nov, 23:00
	3-5km SE	Heard	2	Explosion	Undetermined	N/K	2-Nov, 23:11
	5-7km SE	Heard	1	Explosion	Undetermined	N/K	2-Nov, 23:32
	5-7km SE	Heard	2	Explosion	Undetermined	N/K	2-Nov, 23:48
	3-5km SE	Heard	2	Explosion	Undetermined	N/K	3-Nov, 07:24
	3-5km SE	Heard	4	Explosion	Undetermined	N/K	3-Nov, 07:30
	3-5km SE	Heard	5	Explosion	Undetermined	N/K	3-Nov, 07:45
	4-5km S	Heard	2	Explosion	Undetermined	N/K	3-Nov, 15:00
	4-5km S	Heard	4	Explosion	Undetermined	N/K	3-Nov, 15:29
	4-5km S	Heard	18	Explosion	Undetermined	N/K	3-Nov, 17:20-17:25
	4-5km S	Heard	26	Burst		HMG	3-Nov, 17:37-17:40
4-5km S	Heard	11	Shot	Assessed as a 30mm canon	Other	3-Nov, 17:43	
4-5km S	Heard	14	Explosion	Undetermined	N/K	3-Nov, 17:45	

Horlivka FPB (non-government-controlled, 39km NE of Donetsk)	4-5km WNW	Heard	16	Burst		HMG	3-Nov, 17:31
	4-5km WNW	Heard	10	Burst		HMG	3-Nov, 17:39
	4-5km WNW	Heard	7	Burst		HMG	3-Nov, 18:00
	4-5km WNW	Heard	5	Explosion	Undetermined	N/K	3-Nov, 18:10
SMM camera in Zolote (government-controlled, 60km W of Luhansk)	1-3km ENE	Recorded	1	Projectile	N to S (assessed as outside the disengagement area)	N/K	2-Nov, 21:22
E edge of Stanytsia Luhanska (government-controlled, 16km NE of Luhansk)	4-6km WSW	Heard	5	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	3-Nov, 00:05-00:07