

Table of ceasefire violations as of 4 November 2019⁹

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	2-4km SSE	Recorded	1	Projectile	NE to SW	N/K	3-Nov, 19:48
	2-4km SSE	Recorded	2	Projectile	ENE to WSW	N/K	4-Nov, 03:01
	2-4km SSE	Recorded	3	Projectile	ENE to WSW	N/K	4-Nov, 03:06
	2-3km S	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 17:14
	2-3km S	Recorded	1	Muzzle flash		N/K	4-Nov, 17:17
	2-3km S	Recorded	3	Projectile	ENE to WSW	N/K	4-Nov, 17:17
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	0.7-1.5km SSW	Recorded	1	Projectile	W to E	N/K	3-Nov, 18:57
	0.7-1.5km SSW	Recorded	2	Projectile	WNW to ESE	N/K	3-Nov, 18:58
	1-2.5km SSW	Recorded	4	Projectile	W to E	N/K	3-Nov, 23:21
	0.5-1km SSW	Recorded	4	Muzzle flash		N/K	3-Nov, 23:33
	1-2km SSW	Recorded	4	Projectile	W to E	N/K	4-Nov, 02:27
	1-2km SSW	Recorded	1	Illumination flare	In vertical flight	N/K	4-Nov, 02:49
	1-2km SSE	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 02:57
	1-2km SSE	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 03:52
SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk)	3-5km E	Recorded	1	Projectile	S to N (also recorded by the SMM camera near Pyshevyk)	N/K	3-Nov, 18:36
	3-5km E	Recorded	1	Explosion	Impact	N/K	3-Nov, 18:36
	3-5km E	Recorded	2	Projectile	S to N (also recorded by the SMM camera near Pyshevyk)	N/K	3-Nov, 18:44
	3-5km E	Recorded	8	Projectile	SSW to NNE	N/K	3-Nov, 18:44
	3-5km E	Recorded	11	Projectile	S to N	N/K	3-Nov, 18:45
	3-5km E	Recorded	1	Projectile	S to N	N/K	3-Nov, 19:06
	3-5km E	Recorded	1	Explosion	Impact, subsequent to previous event	N/K	3-Nov, 19:06
	3-5km NE	Recorded	2	Projectile	NW to SE	N/K	3-Nov, 23:03
	3-5km NE	Recorded	8	Projectile	NW to SE	N/K	3-Nov, 23:28
	3-5km E	Recorded	8	Projectile	SW to NE	N/K	4-Nov, 02:05
	3-5km E	Recorded	6	Projectile	SW to NE	N/K	4-Nov, 02:06
	3-5km NE	Recorded	1	Projectile	NNW to SSE	N/K	4-Nov, 02:15
	3-5km NE	Recorded	2	Projectile	NNW to SSE	N/K	4-Nov, 02:19
	3-5km E	Recorded	3	Projectile	SW to NE	N/K	4-Nov, 03:36
	3-5km E	Recorded	3	Projectile	SW to NE	N/K	4-Nov, 03:37
	3-5km E	Recorded	14	Projectile	SW to NE	N/K	4-Nov, 03:38
	3-5km E	Recorded	3	Projectile	SW to NE	N/K	4-Nov, 03:39
	3-5km ENE	Recorded	1	Projectile	SW to NE	N/K	4-Nov, 03:40
	3-5km E	Recorded	19	Projectile	S to N (also recorded by the SMM camera near	N/K	4-Nov, 17:06

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.

					Lomakyne)		
	3-5km E	Recorded	1	Explosion	Undetermined, also recorded by the SMM camera in Lomakyne	N/K	4-Nov, 17:06
	3-5km E	Recorded	1	Projectile	S to N	N/K	4-Nov, 17:11
	3-5km E	Recorded	3	Projectile	S to N	N/K	4-Nov, 17:12
	3-5km E	Recorded	43	Projectile	S to N	N/K	4-Nov, 17:13
	3-5km E	Recorded	16	Projectile	S to N	N/K	4-Nov, 17:14
	3-5km E	Recorded	2	Explosion	Undetermined	N/K	4-Nov, 17:14
SMM camera E of Lomakyne (government-controlled, 90km S of Donetsk)	2-6km ENE	Recorded	3	Explosion	Undetermined	N/K	3-Nov, 22:03
	1-1.5km NE	Recorded	1	Muzzle flash		N/K	4-Nov, 00:40
	2-4km ENE	Recorded	14	Projectile	NW to SE	N/K	4-Nov, 03:38
	2-3km ENE	Recorded	1	Explosion	Impact	N/K	4-Nov, 16:41
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	1-3km ENE	Recorded	1	Projectile	N to S	N/K	4-Nov, 02:12
SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)	2-4km NNE	Recorded	11	Projectile	SW to NE	N/K	3-Nov, 21:40
	2-4km NNE	Recorded	3	Projectile	W to E	N/K	3-Nov, 21:41
	2-4km NNE	Recorded	12	Projectile	W to E	N/K	3-Nov, 21:54
	2-4km NNE	Recorded	2	Muzzle flash		N/K	3-Nov, 21:54
	2-4km NNE	Recorded	1	Projectile	W to E	N/K	3-Nov, 21:55
	2-4km NNE	Recorded	4	Projectile	W to E	N/K	3-Nov, 22:02
	2-4km NNE	Recorded	14	Projectile	W to E	N/K	3-Nov, 22:03
	2-4km N	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 17:02
SMM camera at entry-exit checkpoint in Pyshevyk (government-controlled, 84km S of Donetsk)	2-4km S	Recorded	4	Projectile	E to W	N/K	3-Nov, 20:00
	2-4km S	Recorded	1	Projectile	N to S	N/K	3-Nov, 21:04
	2-4km S	Recorded	3	Projectile	W to E	N/K	3-Nov, 21:09
	2-4km S	Recorded	1	Muzzle flash		N/K	3-Nov, 21:42
	2-4km S	Recorded	5	Projectile	N to S	N/K	3-Nov, 22:26
	2-4km S	Recorded	2	Projectile	E to W	N/K	3-Nov, 22:26
	2-4km S	Recorded	3	Projectile	W to E	N/K	3-Nov, 22:26
	2-4km S	Recorded	4	Projectile	W to E	N/K	3-Nov, 22:55
	2-4km S	Recorded	2	Projectile	NW to SE	N/K	3-Nov, 22:56
	2-4km S	Recorded	5	Projectile	NW to SE	N/K	3-Nov, 23:00
	2-4km S	Recorded	1	Projectile	N to S	N/K	3-Nov, 23:00
	2-4km S	Recorded	4	Projectile	E to W	N/K	3-Nov, 23:03
	2-4km S	Recorded	12	Projectile	E to W	N/K	3-Nov, 23:28
	2-4km S	Recorded	1	Muzzle flash		N/K	4-Nov, 01:26
	2-4km S	Recorded	1	Projectile	In vertical flight	N/K	4-Nov, 01:56
	2-4km S	Recorded	2	Projectile	W to E	N/K	4-Nov, 01:56
	2-4km S	Recorded	8	Projectile	W to E	N/K	4-Nov, 02:05
	2-4km S	Recorded	6	Projectile	W to E	N/K	4-Nov, 02:06
	2-4km S	Recorded	1	Projectile	E to W	N/K	4-Nov, 02:15
	2-4km S	Recorded	1	Muzzle flash		N/K	4-Nov, 02:48
	2-4km S	Recorded	20	Projectile	W to E	N/K	4-Nov, 02:54
	2-4km S	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 02:54
	2-4km S	Recorded	8	Projectile	W to E	N/K	4-Nov, 03:06
	2-4km S	Recorded	2	Projectile	W to E	N/K	4-Nov, 03:18
	2-4km S	Recorded	12	Projectile	W to E	N/K	4-Nov, 03:19
	2-4km S	Recorded	3	Projectile	W to E	N/K	4-Nov, 03:36
	2-4km S	Recorded	10	Projectile	W to E	N/K	4-Nov, 03:38
	2-4km S	Recorded	3	Projectile	W to E	N/K	4-Nov, 03:39
	2-4km S	Recorded	5	Projectile	NE to SW	N/K	4-Nov, 04:23
	2-4km S	Recorded	3	Projectile	E to W	N/K	4-Nov, 04:23
	2-4km S	Recorded	2	Projectile	W to E	N/K	4-Nov, 04:46
		3-5km S	Recorded	1	Illumination flare	In vertical flight	N/K
	3-5km S	Recorded	1	Projectile	W to E	N/K	4-Nov, 16:54

	3-5km S	Recorded	7	Projectile	E to W	N/K	4-Nov, 17:06
	3-5km S	Recorded	7	Projectile	W to E	N/K	4-Nov, 17:06
	3-5km S	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 17:06
	3-5km S	Recorded	3	Projectile	E to W	N/K	4-Nov, 17:09
	3-5km S	Recorded	3	Projectile	E to W	N/K	4-Nov, 17:10
	2-3km SSE	Recorded	3	Projectile	E to W	N/K	4-Nov, 17:17
About 2km N of Petrivske (non-government-controlled, 41km S of Donetsk)	2-4km SE	Heard	3	Shot	Assessed as outside the disengagement area	HMG	4-Nov, 11:15
About 1km E of Kruta Balka (non-government-controlled, 16km N of Donetsk)	3-4km W	Heard	1	Explosion	Undetermined	N/K	4-Nov, 10:10
	2-3km S	Heard	5	Burst		Small arms	4-Nov, 10:31
	3-4km W	Heard	1	Explosion	Undetermined	N/K	4-Nov, 10:31-10:39
	3-4km W	Heard		Shot	Uncountable	Small arms	4-Nov, 10:31-10:39
	3-4km W	Heard	4	Burst		HMG	4-Nov, 10:31-10:39
About 1km N of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	2-3km NW	Heard	2	Explosion	Undetermined	N/K	4-Nov, 08:48
Railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	3-4km W	Heard	28	Shot		Small arms	4-Nov, 10:58-10:59
	3-4km W	Heard	4	Burst		Small arms	4-Nov, 10:58-10:59
	3-4km W	Heard	1	Explosion	Undetermined	N/K	4-Nov, 10:58-10:59
	2km W	Heard	7	Burst		Small arms	4-Nov, 11:27
	3-4km W	Heard	1	Explosion	Undetermined	N/K	4-Nov, 11:43
About 1km NW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	2km W	Heard	2	Shot		Small arms	4-Nov, 09:23
	2-3km SE	Heard	2	Shot		Small arms	4-Nov, 09:31
	2-3km W	Heard	1	Burst		HMG	4-Nov, 12:28
	2km NNW	Heard	4	Shot		Small arms	4-Nov, 12:30
	2km NNW	Heard	1	Burst		Small arms	4-Nov, 12:31
	5km S	Heard	1	Explosion	Undetermined	N/K	4-Nov, 12:41
	5km S	Heard	1	Burst		Small arms	4-Nov, 12:41
	5km S	Heard	2	Shot		Small arms	4-Nov, 12:42
	3km S	Heard	2	Shot		HMG	4-Nov, 12:47
	4km SW	Heard	1	Shot		Small arms	4-Nov, 12:47
	2-3km SW	Heard	3	Explosion	Undetermined	N/K	4-Nov, 12:49
	2-3km SW	Heard	1	Burst		Small arms	4-Nov, 12:49
	2km SW	Heard	2	Shot		Small arms	4-Nov, 12:55
	2km SW	Heard	1	Burst		Small arms	4-Nov, 12:57
	2km SW	Heard	2	Shot		Small arms	4-Nov, 13:19
2km SW	Heard	3	Burst		Small arms	4-Nov, 13:22	
2-3km S	Heard	1	Shot		Small arms	4-Nov, 13:25	

Krasnohorivka (government-controlled, 21km W of Donetsk)	3-4km S	Heard	4	Explosion	Undetermined	N/K	4-Nov, 13:15-13:30
	2-3km SE	Heard	10	Explosion	Undetermined	N/K	4-Nov, 13:15-13:30
	2-3km S	Heard	7	Shot		Small arms	4-Nov, 13:15-13:30
	2-3km S	Heard	92	Burst		HMG	4-Nov, 13:15-13:30
	1-2km SE	Heard	20	Burst		HMG	4-Nov, 13:15-13:30
	2-3km SE	Heard	1	Explosion	Undetermined	N/K	4-Nov, 13:34
About 1km NE of Zaichenko (non-government-controlled, 93km S of Donetsk)	2-3km NW	Heard	4	Burst		HMG	4-Nov, 11:40
About 2km N of Chermalyk (government-controlled, 77km S of Donetsk)	1km NE	Heard	5	Burst		Small arms	4-Nov, 12:09-12:15
	1-2km SE	Heard	8	Burst		Small arms	4-Nov, 12:09-12:15
NE edge of Kulykove (non-government-controlled, 87km S of Donetsk)	2-3km S	Heard	2	Explosion	Undetermined	N/K	4-Nov, 13:57
Svitlodarsk (government-controlled, 57km NE of Donetsk)	4-5km SE	Heard	8	Explosion	Undetermined	N/K	3-Nov, 19:30-19:33
	4-5km S	Heard	12	Explosion	Undetermined	N/K	3-Nov, 19:45-19:50
	4-5km S	Heard	6	Explosion	Undetermined	N/K	3-Nov, 20:00
	4-5km S	Heard	5	Explosion	Undetermined	N/K	3-Nov, 20:08
	4-5km SE	Heard	10	Burst		HMG	3-Nov, 20:40
	3-5km SE	Heard	2	Explosion	Undetermined	N/K	4-Nov, 10:56
	3-4km S	Heard	30	Burst		HMG	4-Nov, 15:48-15:50
	4-5km SE	Heard	3	Explosion	Undetermined	N/K	4-Nov, 17:00-17:08
	4-5km SE	Heard	2	Explosion	Undetermined	N/K	4-Nov, 17:38
	4-5km S	Heard	8	Explosion	Undetermined	N/K	4-Nov, 17:40-17:50
	4-5km S	Heard	4	Explosion	Undetermined	N/K	4-Nov, 17:51-18:00
	4-5km S	Heard	10	Explosion	Undetermined	N/K	4-Nov, 18:05-18:20
	4-5km S	Heard	20	Burst		HMG	4-Nov, 18:05-18:20
	4-5km S	Heard	8	Explosion	Undetermined	N/K	4-Nov, 18:21-18:28
	4-5km S	Heard	30	Burst		HMG	4-Nov, 18:21-18:28
Horlivka (non-government-controlled, 39km NE of Donetsk)	4-6km SW	Heard	2	Explosion	Undetermined	N/K	4-Nov, 14:54
	4-6km SSW	Heard	2	Explosion	Undetermined	N/K	4-Nov, 14:49
	6-8km SW	Heard	6	Explosion	Undetermined	N/K	4-Nov, 15:05
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	2-3km E	Heard	1	Explosion	Undetermined	N/K	4-Nov, 12:25
	2-3km E	Heard	1	Explosion	Undetermined	N/K	4-Nov, 12:31
	2-3km E	Heard	1	Explosion	Undetermined	N/K	4-Nov, 12:41
	2-3km SSW	Heard	2	Explosion	Undetermined	N/K	4-Nov, 13:00
SMM camera in Kriakivka (government-controlled, 38km NW of Luhansk)	2-4km SSW	Recorded	3	Projectile	WNW to ESE	N/K	3-Nov, 20:38
	2-4km SSW	Recorded	26	Projectile	ESE to WNW	N/K	3-Nov, 20:47
	2-4km SSW	Recorded	1	Projectile	WNW to ESE	N/K	3-Nov, 20:47
	2-4km SSW	Recorded	1	Projectile	WNW to ESE	N/K	3-Nov, 20:51
	2-4km SSW	Recorded	3	Muzzle flash		N/K	3-Nov, 20:52
	2-4km SSW	Recorded	3	Projectile	WNW to ESE	N/K	3-Nov, 20:52
	2-4km SSW	Recorded	3	Projectile	WNW to ESE	N/K	3-Nov, 20:52
2-4km SSW	Recorded	2	Muzzle flash		N/K	3-Nov, 20:54	

	2-4km SSW	Recorded	2	Projectile	WNW to ESE	N/K	3-Nov, 20:54
	2-4km SSW	Recorded	2	Muzzle flash		N/K	3-Nov, 20:54
	2-4km SW	Recorded	1	Projectile	WNW to ESE	N/K	3-Nov, 20:54
	2-4km SSW	Recorded	1	Projectile	ESE to WNW	N/K	3-Nov, 20:55
	2-4km SSW	Recorded	4	Projectile	WNW to ESE	N/K	3-Nov, 20:56
	2-4km SSW	Recorded	1	Projectile	WNW to ESE	N/K	3-Nov, 20:57
	2-4km SSW	Recorded	1	Projectile	ESE to WNW	N/K	3-Nov, 20:58
	2-4km SSW	Recorded	2	Projectile	WNW to ESE	N/K	3-Nov, 20:58
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	3-Nov, 20:58
	2-4km SSW	Recorded	1	Muzzle flash		N/K	3-Nov, 20:59
	2-4km SSW	Recorded	1	Projectile	WNW to ESE	N/K	3-Nov, 20:59
	2-4km SSW	Recorded	1	Projectile	WNW to ESE	N/K	3-Nov, 21:02
	2-4km SSW	Recorded	1	Muzzle flash		N/K	3-Nov, 21:02
SMM camera in Zolote (government-controlled, 60km W of Luhansk)	2-3km ENE	Recorded	2	Projectile	NW to SE (assessed as outside the disengagement area)	N/K	3-Nov, 18:57
NW edge of Smile (non-government-controlled, 31km NW of Luhansk)	5-10km W	Heard	21	Explosion	Undetermined	Artillery	04/11/0219, 11:31-11:54
	5-10km W	Heard	23	Burst		HMG	04/11/0219, 11:31-11:54
SW edge of Dovhe (non-government-controlled, 22km NW of Luhansk)	10km NW	Heard	2	Explosion	Undetermined	N/K	04/11/0219, 11:35-11:36
N edge of Popasna (government-controlled, 69km W of Luhansk)	8-10km SSW	Heard	5	Explosion	Undetermined	N/K	04/11/0219, 14:30-14:34