

Table of ceasefire violations as of 19 November 2019⁸

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date and time
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	3-5km SE	Recorded	1	Projectile	SW to NE	N/K	18-Nov, 19:05
	3-5km SE	Recorded	3	Projectile	SW to NE	N/K	18-Nov, 19:45
	3-5km SE	Recorded	2	Projectile	SW to NE	N/K	18-Nov, 19:46
	3-5km SE	Recorded	1	Projectile	N to S	N/K	18-Nov, 19:46
	2-3km SE	Recorded	1	Projectile	SW to NE	N/K	18-Nov, 21:25
	3-5km SE	Recorded	1	Muzzle flash		N/K	18-Nov, 23:09
	3-5km SSE	Recorded	1	Projectile	NE to SW	N/K	18-Nov, 23:09
	3-5km SSE	Recorded	1	Explosion	Airburst	N/K	18-Nov, 23:09
	3-5km SSE	Recorded	10	Projectile	NE to SW	N/K	18-Nov, 23:09
	3-5km SSE	Recorded	10	Projectile	NE to SW	N/K	18-Nov, 23:21
	3-5km SSE	Recorded	1	Explosion	Undetermined	N/K	18-Nov, 23:29
	3-5km SE	Recorded	13	Projectile	NE to SW	N/K	18-Nov, 23:38
	3-5km SE	Recorded	4	Projectile	NE to SW	N/K	18-Nov, 23:39
	3-5km SE	Recorded	3	Explosion	Outgoing	N/K	18-Nov, 23:39
	3-5km SE	Recorded	7	Projectile	NE to SW	N/K	18-Nov, 23:44
	3-5km SSE	Recorded	15	Projectile	NE to SW	N/K	18-Nov, 23:45
	3-5km SSE	Recorded	8	Projectile	NE to SW	N/K	18-Nov, 23:47
	3-5km SSE	Recorded	2	Projectile	NE to SW	N/K	18-Nov, 23:48
	3-5km S	Recorded	1	Projectile	In vertical flight	N/K	18-Nov, 23:48
	3-5km SE	Recorded	3	Projectile	NE to SW	N/K	18-Nov, 23:51
	3-5km SE	Recorded	1	Explosion	Impact	N/K	18-Nov, 23:51
	3-5km SE	Recorded	4	Projectile	NE to SW	N/K	18-Nov, 23:54
	3-5km SE	Recorded	3	Projectile	NE to SW	N/K	18-Nov, 23:56
	3-5km SE	Recorded	1	Explosion	Impact	N/K	18-Nov, 23:56
	3-5km SE	Recorded	10	Projectile	NE to SW	N/K	18-Nov, 23:57
	3-5km SE	Recorded	2	Explosion	Impact	N/K	19-Nov, 00:09
	3-5km SE	Recorded	1	Explosion	Airburst	N/K	19-Nov, 00:27
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	0.5-1km SSW	Recorded	3	Projectile	NW to SE	N/K	18-Nov, 19:17
	1-2km SSW	Recorded	1	Projectile	SW to NE	N/K	18-Nov, 20:41
	0.3-0.5km S	Recorded	1	Projectile	W to E	N/K	18-Nov, 21:17
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	18-Nov, 21:23
	0.5-1km S	Recorded	2	Projectile	NNW to SSE	N/K	18-Nov, 22:36
	0.8-1km S	Recorded	3	Explosion	Undetermined	N/K	19-Nov, 00:06
	1-2km SSW	Recorded	4	Projectile	N to S	N/K	19-Nov, 00:35
2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	19-Nov, 00:44	
SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk)	3-5km SE	Recorded	2	Explosion	Undetermined	N/K	18-Nov, 18:42
	3-5km SE	Recorded	2	Projectile	NNW to SSE	N/K	18-Nov, 19:16
	3-5km SE	Recorded	4	Projectile	NNW to SSE	N/K	18-Nov, 19:27
	3-5km E	Recorded	1	Explosion	Undetermined	N/K	18-Nov, 19:32
	3-5km SE	Recorded	1	Projectile	NNE to SSW	N/K	18-Nov, 19:53
	3-5km SE	Recorded	1	Projectile	WSW to ENE	N/K	18-Nov, 19:53
	2-3km ESE	Recorded	2	Projectile	SSW to NNE	N/K	18-Nov, 21:08
	2-3km ESE	Recorded	4	Projectile	SSW to NNE	N/K	18-Nov, 21:15
SMM camera E of Lomakyne (government-	2-3km ENE	Recorded	1	Projectile	N to S	N/K	18-Nov, 21:06
	2-3km ENE	Recorded	1	Explosion	Airburst	N/K	18-Nov, 21:06
	3-5km ENE	Recorded	14	Projectile	N to S	N/K	18-Nov, 21:59
	3-5km E	Recorded	1	Projectile	S to N	N/K	18-Nov, 21:59

⁸ 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.

controlled, 90km S of Donetsk)	3-5km E	Recorded	1	Explosion	Undetermined	N/K	18-Nov, 21:59
	3-5km ENE	Recorded	4	Projectile	N to S	N/K	18-Nov, 22:00
	3-5km E	Recorded	2	Projectile	N to S	N/K	18-Nov, 22:02
	3-5km E	Recorded	8	Projectile	S to N	N/K	18-Nov, 22:02
	3-5km ENE	Recorded	23	Projectile	N to S	N/K	18-Nov, 22:04
	5-8km ENE	Recorded	1	Explosion	Undetermined	N/K	18-Nov, 23:02
	3-5km E	Recorded	1	Explosion	Undetermined	N/K	18-Nov, 23:03
	3-5km E	Recorded	1	Explosion	Undetermined	N/K	18-Nov, 23:08
	3-5km ENE	Recorded	22	Projectile	N to S	N/K	18-Nov, 23:37
	3-5km ENE	Recorded	3	Explosion	Impact	N/K	18-Nov, 23:48
	3-5km ENE	Recorded	1	Projectile	WNW to ESE	N/K	18-Nov, 23:48
SMM camera in Petrivske (non-government-controlled, 41km S of Donetsk)	1-3km WSW	Recorded	3	Projectile	SSE to NNW (assessed as inside the disengagement area)	N/K	13-Nov, 19:17
	2-3km SSW	Recorded	14	Projectile	WSW to ENE (unable to assess whether inside or outside the disengagement area)	N/K	13-Nov, 21:41
SMM camera 1km SW of Shyrokyne (government-controlled, 100km S of Donetsk)	3-5km N	Recorded	2	Explosion	Undetermined	N/K	18-Nov, 18:36
	3-5km N	Recorded	1	Explosion	Outgoing	N/K	18-Nov, 18:39
	7-9km N	Recorded	1	Projectile	W to E	N/K	18-Nov, 18:39
	7-9km N	Recorded	1	Explosion	Impact	N/K	18-Nov, 18:39
	7-9km N	Recorded	1	Explosion	Undetermined	N/K	18-Nov, 18:47
	3-5km N	Recorded	4	Projectile	E to W	N/K	18-Nov, 18:51
	3-5km N	Recorded	5	Projectile	SSW to NNE	N/K	18-Nov, 18:53
	3-5km N	Recorded	7	Projectile	E to W	N/K	18-Nov, 18:57
	3-5km N	Recorded	5	Projectile	ESE to WNW	N/K	18-Nov, 19:01
	7-9km N	Recorded	2	Projectile	ESE to WNW	N/K	18-Nov, 19:14
	3-5km N	Recorded	1	Projectile	ESE to WNW	N/K	18-Nov, 19:49
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	18-Nov, 21:06
	3-5km N	Recorded	1	Projectile	W to E	N/K	18-Nov, 21:15
	3-5km N	Recorded	1	Explosion	Impact	N/K	18-Nov, 21:15
	3-5km N	Recorded	2	Explosion	Undetermined	N/K	18-Nov, 21:48
	3-5km N	Recorded	1	Muzzle flash		N/K	18-Nov, 21:48
	3-5km N	Recorded	1	Projectile	ESE to WNW	N/K	18-Nov, 21:48
	3-5km N	Recorded	1	Explosion	Airburst	N/K	18-Nov, 21:48
	3-5km N	Recorded	1	Muzzle flash		N/K	18-Nov, 21:49
	3-5km N	Recorded	1	Projectile	E to W	N/K	18-Nov, 21:49
	3-5km N	Recorded	1	Explosion	Impact	N/K	18-Nov, 21:49
	3-5km N	Recorded	1	Muzzle flash		N/K	18-Nov, 21:50
	3-5km N	Recorded	1	Projectile	E to W	N/K	18-Nov, 21:50
	3-5km N	Recorded	1	Explosion	Airburst	N/K	18-Nov, 21:50
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	18-Nov, 23:06
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	18-Nov, 23:07
	3-5km N	Recorded	3	Explosion	Undetermined	N/K	18-Nov, 23:08
	3-5km N	Recorded	2	Explosion	Undetermined	N/K	18-Nov, 23:09
	3-5km N	Recorded	1	Projectile	E to W	N/K	18-Nov, 23:49
	3-5km N	Recorded	1	Explosion	Impact	N/K	18-Nov, 23:49
	3-5km N	Recorded	2	Explosion	Undetermined	N/K	19-Nov, 00:09
	3-5km N	Recorded	2	Explosion	Undetermined	N/K	19-Nov, 00:38
	3-5km N	Recorded	7	Projectile	W to E	N/K	19-Nov, 00:38
3-5km N	Recorded	1	Projectile	E to W	N/K	19-Nov, 00:39	
3-5km N	Recorded	1	Explosion	Undetermined	N/K	19-Nov, 00:52	
3-5km N	Recorded	1	Projectile	E to W	N/K	19-Nov, 00:52	
3-5km N	Recorded	1	Explosion	Undetermined	N/K	19-Nov, 01:47	

	3-5km N	Recorded	1	Explosion	Undetermined	N/K	19-Nov, 03:55
SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk)	3-5km ESE	Recorded	1	Projectile	WNW to ESE	N/K	19-Nov, 17:24
	4-6km ESE	Recorded	1	Explosion	Impact	N/K	19-Nov, 17:24
	3-5km ESE	Recorded	1	Explosion	Undetermined	N/K	19-Nov, 17:50
SE part of Avdiivka (government-controlled, 17km N of Donetsk)	0.6-0.8km ESE	Heard	3	Shot		Small arms	19-Nov, 09:15-09:40
	0.6-0.8km ESE	Heard	7	Burst		Small arms	19-Nov, 09:15-09:40
	1km ESE	Heard	2	Explosion	Undetermined	N/K	19-Nov, 09:15-09:40
	3-5km NNW	Heard	3	Explosion	Undetermined	N/K	19-Nov, 13:20
	3-5km NNW	Heard	1	Explosion	Undetermined	N/K	19-Nov, 13:28
SW part of Avdiivka (government-controlled, 17km N of Donetsk)	2km NNW	Heard	2	Explosion	Undetermined	N/K	19-Nov, 09:50-09:57
	2km SE	Heard	1	Explosion	Undetermined	N/K	19-Nov, 09:50-09:57
	3-4km S	Heard	1	Explosion	Undetermined	N/K	19-Nov, 10:16
	2-3km S	Heard	1	Explosion	Undetermined	N/K	19-Nov, 11:42
	2-3km S	Heard	4	Burst		HMG	19-Nov, 11:42
About 1.8km N of Petrivske (non-government-controlled, 41km S of Donetsk)	3-5km SSW	Heard	10	Explosion	Undetermined (assessed as inside the disengagement area)	N/K	19-Nov, 09:56-10:06
	3-5km SSW	Heard	12	Explosion	Undetermined (assessed as inside the disengagement area)	N/K	19-Nov, 10:06-10:38
	1.5km SSW	Heard	1	Shot	Assessed as outside the disengagement area.	Small arms	19-Nov, 10:31
	8-12km WNW	Heard	24	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	19-Nov, 10:49-10:58
	1.5-2km S	Heard	7	Burst	Assessed as outside the disengagement area.	Small arms	19-Nov, 11:33
Trudivski area in Petrovskiyi district (non-government-controlled, 15km SW of Donetsk city centre)	4-6km NW	Heard	1	Explosion	Undetermined	N/K	19-Nov, 11:22
	1-2km SSW	Heard	5	Burst		HMG	19-Nov, 11:32
Railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	2-3km ESE	Heard	36	Shot		HMG	19-Nov, 10:50
	2-3km ESE	Heard	16	Burst		HMG	19-Nov, 10:58
	3-4km SE	Heard	4	Explosion	Undetermined	N/K	19-Nov, 12:00
	3-4km SE	Heard	11	Shot		HMG	19-Nov, 12:04
About 1km NW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	2-3km SW	Heard	3	Burst		Small arms	19-Nov, 09:20
	2-3km SW	Heard	5	Burst		Small arms	19-Nov, 09:29
	3-4km SW	Heard	2	Shot		HMG	19-Nov, 09:40
	3-4km SW	Heard	1	Shot		HMG	19-Nov, 09:58

About 1.5km E of Bohdanivka (government-controlled, 41km SW of Donetsk)	3-5km SE	Heard	8	Shot		Small arms	19-Nov, 08:45
	3-5km S	Heard	3	Shot		Small arms	19-Nov, 09:12
	2-5km SSW	Heard	15	Explosion		N/K	19-Nov, 09:53-10:07
	2-5km SSW	Heard	12	Explosion		N/K	19-Nov, 10:09-10:30
	2-5km SSW	Heard	3	Explosion		N/K	19-Nov, 10:29-10:33
	2-5km SSW	Heard	1	Burst		HMG	19-Nov, 10:29-10:33
	2-5km SSW	Heard	5	Explosion		N/K	19-Nov, 10:48-10:55
	5km WNW	Heard	10	Explosion		N/K	19-Nov, 10:55-10:58
2km SW of Pyshevyk (government-controlled, 84km S of Donetsk)	3-5km ESE	Heard	6	Explosion		N/K	19-Nov, 10:50-11:00
	4-6km SSE	Heard	10	Explosion		N/K	19-Nov, 10:22-10:25
	4-6km SSE	Heard	7	Explosion		N/K	19-Nov, 10:34-10:37
	3-5km ESE	Heard	1	Explosion		N/K	19-Nov, 10:34-10:37
	3-5km SSE	Heard	1	Burst		Small arms	19-Nov, 10:34-10:37
	3-5km ESE	Heard	1	Explosion		N/K	19-Nov, 11:05
	3-5km E	Heard	15	Explosion		N/K	19-Nov, 11:25-11:27
	4-6km SSE	Heard	5	Explosion		N/K	19-Nov, 13:40-13:50
	2-4km ESE	Heard	34	Burst		HMG	19-Nov, 14:10-14:15
	2-4km ESE	Heard	19	Burst		HMG	19-Nov, 14:16-14:24
	2-4km ESE	Heard	25	Burst		HMG	19-Nov, 14:24-14:33
Verkhnohyrokiivske (formerly Oktiabr, non-government-controlled, 85km S of Donetsk)	3-5km S	Heard	6	Explosion	Undetermined	N/K	19-Nov, 10:35
About 3km NE of Zaichenko (non-government-controlled, 93km S of Donetsk)	3-4km WSW	Heard	4	Explosion	Undetermined	N/K	19-Nov, 11:16-11:19
	3-4km WSW	Heard	12	Shot		HMG	19-Nov, 11:26-11:28
Svitlodarsk (government-controlled, 57km NE of Donetsk)	4-6km SW	Heard	2	Explosion	Undetermined	N/K	18-Nov, 19:12
	4-6km E	Heard	2	Explosion	Undetermined	N/K	18-Nov, 20:08
	4-6km E	Heard	8	Burst		HMG	18-Nov, 20:08-20:13
	4-6km E	Heard	15	Burst		HMG	18-Nov, 20:34-20:38
	6-8km WSW	Heard	3	Explosion	Undetermined	N/K	18-Nov, 20:38
	4-6km E	Heard	12	Burst		HMG	18-Nov, 20:39-20:47
	2-4km SE	Heard	3	Burst		HMG	18-Nov, 20:49-20:51
	2-4km SE	Heard	2	Burst		HMG	18-Nov, 21:10
	1-2km SSE	Heard	1	Explosion	Undetermined	N/K	18-Nov, 02:14
	4-6km SE	Heard	2	Burst		HMG	18-Nov, 20:15

4-6km SE	Heard	7	Burst		HMG	18-Nov, 21:21-21:26
2-4km SSE	Heard	2	Burst		HMG	18-Nov, 21:28-21:29
2-4km S	Heard	5	Burst		HMG	18-Nov, 21:32-21:33
3-5km SE	Heard	8	Burst		HMG	18-Nov, 21:34-21:36
2-4km S	Heard	6	Burst		HMG	18-Nov, 21:37-21:39
3-5km S	Heard	5	Burst		HMG	18-Nov, 21:42-21:44
2-4km SE	Heard	8	Burst		HMG	18-Nov, 21:45
3-5km SE	Heard	12	Burst		HMG	18-Nov, 21:46
3-5km SE	Heard	1	Explosion	Undetermined	N/K	18-Nov, 21:46
2-3km S	Heard	5	Burst		Small arms	18-Nov, 21:48
3-5km SE	Heard	1	Explosion	Undetermined	N/K	18-Nov, 21:48
3-5km S	Heard	17	Burst		HMG	18-Nov, 21:49-21:50
2-3km SE	Heard	11	Burst		Small arms	18-Nov, 21:52-21:53
4-6km SW	Heard	4	Explosion	Undetermined	N/K	18-Nov, 21:53
3-5km SE	Heard	12	Burst		HMG	18-Nov, 21:54-21:55
3-5km SE	Heard	1	Explosion	Undetermined	N/K	18-Nov, 21:55
3-5km SE	Heard	1	Explosion	Undetermined	N/K	18-Nov, 21:57
2-3km S	Heard	22	Burst		Small arms	18-Nov, 21:58-22:00
5-7km SE	Heard	4	Explosion	Undetermined	N/K	18-Nov, 21:58-22:00
3-5km S	Heard	1	Explosion	Undetermined	N/K	18-Nov, 22:00
2-4km S	Heard	6	Burst		Small arms	18-Nov, 22:01
3-5km SE	Heard	4	Burst		HMG	18-Nov, 22:03
2-4km SE	Heard	7	Burst		Small arms	18-Nov, 22:06
2-3km SE	Heard	2	Burst		Small arms	18-Nov, 22:10
4-6km S	Heard	2	Explosion	Undetermined	N/K	18-Nov, 22:11
2-3km SE	Heard	4	Burst		Small arms	18-Nov, 22:16
3-5km SE	Heard	22	Burst		HMG	18-Nov, 22:18
2-3km SE	Heard	14	Burst		Small arms	18-Nov, 22:19-22:20
3-5km SE	Heard	10	Burst		HMG	18-Nov, 22:21-22:22
2-4km S	Heard	12	Burst		Small arms	18-Nov, 22:25
3-5km SE	Heard	8	Burst		HMG	18-Nov, 22:29
3-5km SE	Heard	13	Burst		HMG	18-Nov, 22:32-22:35
1-3km S	Heard	12	Shot		Small arms	18-Nov, 22:36-22:38
3-6km SE	Heard	4	Explosion	Undetermined	N/K	18-Nov, 22:38
2-3km S	Heard	1	Burst		Small arms	18-Nov, 22:39
4-6km SE	Heard	1	Explosion	Undetermined	N/K	18-Nov, 22:41
2-3km S	Heard	6	Explosion	Undetermined	N/K	18-Nov, 22:42-22:45

	3-5km SE	Heard	32	Burst		HMG	18-Nov, 22:42-22:45
	2-3km S	Heard	1	Explosion	Undetermined	N/K	18-Nov, 22:46
	3-5km SE	Heard	12	Burst		HMG	18-Nov, 22:46
	3-5km SE	Heard	2	Explosion	Undetermined	N/K	18-Nov, 22:54
	3-5km SE	Heard	16	Burst		HMG	18-Nov, 22:57-23:01
	5-7km SE	Heard	1	Explosion	Undetermined	N/K	18-Nov, 23:14
	6-8km SE	Heard	1	Explosion	Undetermined	N/K	18-Nov, 23:33
	2-3km SE	Heard	6	Burst		Small arms	18-Nov, 23:34-23:40
	2-3km SE	Heard	10	Burst		Small arms	18-Nov, 23:50-23:58
	4-6km SW	Heard	4	Explosion	Undetermined	N/K	19-Nov, 10:27-11:00
	4-6km E	Heard	1	Explosion	Undetermined	N/K	19-Nov, 11:11
	4-6km SE	Heard	2	Explosion	Undetermined	N/K	19-Nov, 14:40
	2-4km E	Heard	1	Explosion	Undetermined	N/K	19-Nov, 14:43
	4-6km SE	Heard	1	Explosion	Undetermined	N/K	19-Nov, 15:10
	4-6km SE	Heard	1	Explosion	Undetermined	N/K	19-Nov, 16:03
About 7.5km NW of Horlivka (non-government controlled, 39km NE of Donetsk)	3-4km SSE	Heard	1	Explosion	Undetermined	N/K	19-Nov, 11:15
	3-4km NW	Heard	6	Explosion	Undetermined	N/K	19-Nov, 12:18
	3-4km NW	Heard	42	Burst		Small arms	19-Nov, 12:24-12:26
	1-2km NW	Heard	38	Shot		Small arms	19-Nov, 12:27-12:28
	2-3km NW	Heard	33	Burst		Small arms	19-Nov, 12:30-12:32
	1-2km NW	Heard	7	Burst		Small arms	19-Nov, 12:38
Horlivka (non-government-controlled, 39km NE of Donetsk)	4-5km W	Heard	2	Explosion	Undetermined	N/K	19-Nov, 13:15
	5-7km SW	Heard	5	Explosion	Undetermined	N/K	19-Nov, 17:35-17:36
W edge of Zalizne (government-controlled, 42km NE of Donetsk)	1km S	Heard	1	Explosion	Undetermined	N/K	19-Nov, 09:11
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	2-3km NW	Heard	6	Burst		HMG	19-Nov, 09:12
	2-3km SE	Heard	2	Explosion	Undetermined	N/K	19-Nov, 09:39
	1-2km SE	Heard	Uncountable	Burst		Small arms	19-Nov, 09:38-09:41
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	19-Nov, 10:56
	2-3km SE	Heard	4	Explosion	Undetermined	N/K	19-Nov, 10:58
	1-2km SE	Heard	6	Shot		Small arms	19-Nov, 11:02
E edge of Kurdiumivka (government-controlled, 54km N of Donetsk)	2-4km SE	Heard	3	Explosion	Undetermined	N/K	19-Nov, 13:16
	N/K SSW	Heard	74	Shot		Small arms	19-Nov, 10:30-10:35
	2-4km SSW	Heard	34	Burst		HMG	19-Nov, 11:00-11:20
	2-4km SSW	Heard	1	Explosion		N/K	19-Nov, 11:51
About 1km SSE of Nelipivka (government-controlled, 50km N of Donetsk)	3-4km E	Heard	4	Explosion	Undetermined	N/K	19-Nov, 11:48
SW outskirts of Zolote-4/Rodina (government-controlled, 59km W of Luhansk)	1-2km NNE	Heard	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	19-Nov, 13:27