

Table of ceasefire violations as of 21 November 2019¹

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera in Berezove (government-controlled, 31km SW of Donetsk)	2-4km SSE	Recorded	14	Projectile	SW to NE	N/K	20-Nov, 23:16
	2-4km ESE	Recorded	3	Projectile	SW to NE	N/K	21-Nov, 17:07
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	3-5km SSE	Recorded	2	Projectile	S to N	N/K	20-Nov, 22:06
	3-5km SSE	Recorded	3	Projectile	S to N	N/K	20-Nov, 23:43
	3-5km SSE	Recorded	4	Projectile	S to N	N/K	20-Nov, 23:44
	3-5km SSE	Recorded	3	Projectile	NE to SW	N/K	21-Nov, 02:17
	3-5km SSE	Recorded	6	Projectile	NE to SW	N/K	21-Nov, 02:18
	3-5km SSE	Recorded	2	Projectile	NE to SW	N/K	21-Nov, 02:22
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	0.7-1km SSE	Recorded	1	Explosion	Undetermined	N/K	20-Nov, 20:39
	0.5-1km S	Recorded	1	Explosion	Undetermined	N/K	20-Nov, 20:56
	0.5-1km SSW	Recorded	1	Projectile	WNW to ESE	N/K	20-Nov, 20:56
	0.5-1km SSW	Recorded	2	Projectile	W to E	N/K	20-Nov, 22:11
	0.7-1km SSE	Recorded	4	Projectile	ESE to WNW	N/K	20-Nov, 22:15
	0.5-1km SSW	Recorded	2	Muzzle flash		N/K	20-Nov, 22:17
	0.7-1km SSE	Recorded	5	Explosion	Undetermined	N/K	20-Nov, 22:17
	0.7-1km SSE	Recorded	5	Projectile	ENE to WSW	N/K	20-Nov, 22:21
	0.7-1km SSE	Recorded	8	Projectile	ESE to WNW	N/K	20-Nov, 22:22
	0.7-1km SSE	Recorded	2	Projectile	ESE to WNW	N/K	20-Nov, 22:23
	0.5-1km SSW	Recorded	1	Projectile	W to E	N/K	20-Nov, 22:45
	0.5-1km SSW	Recorded	1	Muzzle flash		N/K	20-Nov, 22:45
	1-3km S	Recorded	2	Projectile	WNW to ESE	N/K	21-Nov, 01:43
	1-3km S	Recorded	2	Projectile	WNW to ESE	N/K	21-Nov, 01:44
	1-3km S	Recorded	1	Projectile	NW to SE	N/K	21-Nov, 02:37
	1-3km SSW	Recorded	1	Projectile	NW to SE	N/K	21-Nov, 02:37

¹ 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.

	0.5-1km SSW	Recorded	4	Explosion	Undetermined	N/K	21-Nov, 03:31
	0.7-1km SSW	Recorded	1	Projectile	W to E (also recorded by the SMM camera in Avdiivka)	N/K	21-Nov, 03:34
SMM camera 1.5km NE of Hnutove (government- controlled, 90km S of Donetsk)	3-5km SE	Recorded	2	Projectile	S to N	N/K	20-Nov, 20:04
	3-5km SE	Recorded	1	Projectile	S to N	N/K	20-Nov, 21:30
	3-5km SE	Recorded	5	Projectile	SSW to NNE	N/K	20-Nov, 22:18
	3-5km SE	Recorded	4	Projectile	SSW to NNE	N/K	20-Nov, 22:19
	3-5km SE	Recorded	12	Projectile	SSW to NNE	N/K	20-Nov, 22:48
	3-5km E	Recorded	1	Explosion	Undetermined	N/K	20-Nov, 23:14
	3-5km SE	Recorded	1	Projectile	NNE to SSW	N/K	20-Nov, 23:14
	3-5km SE	Recorded	1	Projectile	SSW to NNE	N/K	20-Nov, 23:15
	3-5km SE	Recorded	2	Muzzle flash		N/K	20-Nov, 23:15
	3-5km SE	Recorded	5	Projectile	S to N	N/K	20-Nov, 23:44
	3-5km SE	Recorded	3	Projectile	SSW to NNE	N/K	20-Nov, 00:29
	3-5km SE	Recorded	1	Projectile	NNE to SSW	N/K	20-Nov, 00:37
	3-5km SE	Recorded	1	Projectile	SSW to NNE	N/K	21-Nov, 00:44
	3-5km SE	Recorded	1	Projectile	SSW to NNE	N/K	21-Nov, 00:45
	3-5km E	Recorded	4	Projectile	NNE to SSW	N/K	21-Nov, 01:19
	3-5km SE	Recorded	2	Projectile	NNE to SSW	N/K	21-Nov, 01:46
	3-5km SE	Recorded	3	Projectile	SSW to NNE	N/K	21-Nov, 02:04
	3-5km SE	Recorded	3	Projectile	SSW to NNE	N/K	21-Nov, 02:09
	3-5km SE	Recorded	2	Projectile	NNE to SSW	N/K	21-Nov, 02:09
	3-5km SE	Recorded	3	Projectile	NNE to SSW	N/K	21-Nov, 02:27
	3-5km SE	Recorded	1	Projectile	SSW to NNE	N/K	21-Nov, 03:11
	3-5km SE	Recorded	1	Projectile	SSW to NNE	N/K	21-Nov, 03:15
	3-5km SE	Recorded	1	Projectile	NNE to SSW	N/K	21-Nov, 03:21
3-5km SE	Recorded	1	Projectile	NNE to SSW	N/K	21-Nov, 03:46	

	3-5km SE	Recorded	2	Projectile	NNE to SSW	N/K	21-Nov, 03:48
	3-5km SE	Recorded	1	Projectile	SSW to NNE	N/K	21-Nov, 04:53
	3-5km SE	Recorded	3	Projectile	SSW to NNE	N/K	21-Nov, 05:00
	3-5km ESE	Recorded	7	Projectile	SSW to NNE	N/K	21-Nov, 17:00
	3-5km ESE	Recorded	1	Projectile	SSW to NNE	N/K	21-Nov, 17:27
SMM camera E of Lomakyne (government-controlled, 93km S of Donetsk)	3-6km ESE	Recorded	1	Explosion	Undetermined	N/K	20-Nov, 19:17
	3-5km ESE	Recorded	11	Projectile	N to S	N/K	20-Nov, 23:33
	3-5km ESE	Recorded	1	Projectile	N to S	N/K	20-Nov, 23:36
	3-5km ESE	Recorded	3	Projectile	S to N	N/K	21-Nov, 01:14
	2-6km ESE	Recorded	14	Projectile	N to S	N/K	21-Nov, 17:05
	2-6km ESE	Recorded	37	Projectile	N to S	N/K	21-Nov, 17:06
	2-6km ESE	Recorded	23	Projectile	N to S (also recorded by the SMM camera in Shyrokyne)	N/K	21-Nov, 17:06
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	3-5km ENE	Recorded	11	Projectile	N to S	N/K	20-Nov, 21:01
	3-5km ENE	Recorded	1	Projectile	N to S	N/K	20-Nov, 23:59
	2-4km ENE	Recorded	1	Illumination flare	In vertical flight	N/K	21-Nov, 01:41
SMM camera in Petrivske (non-government-controlled, 41km S of Donetsk)	2-3km SSW	Recorded	1	Projectile	SE to NW (assessed as outside the disengagement area)	N/K	15-Nov, 00:24
SMM camera 1km SW of Shyrokyne (government-controlled, 100km S of Donetsk)	2-5km N	Recorded	2	Projectile	W to E	N/K	20-Nov, 18:36
	2-5km N	Recorded	1	Projectile	E to W	N/K	20-Nov, 18:36
	2-5km N	Recorded	14	Projectile	E to W	N/K	20-Nov, 18:43
	2-5km N	Recorded	10	Projectile	E to W	N/K	20-Nov, 18:44
	2-5km N	Recorded	4	Projectile	E to W	N/K	20-Nov, 18:52
	2-5km N	Recorded	7	Projectile	E to W	N/K	20-Nov, 18:53
	2-5km N	Recorded	5	Projectile	E to W	N/K	20-Nov, 18:55
	2-5km NNE	Recorded	3	Projectile	W to E	N/K	20-Nov, 19:14

2-5km N	Recorded	2	Projectile	W to E	N/K	20-Nov, 19:17
2-5km N	Recorded	2	Explosion	Undetermined	N/K	20-Nov, 19:17
4-6km N	Recorded	3	Projectile	WSW to ENE	N/K	20-Nov, 20:24
4-6km N	Recorded	4	Projectile	WSW to ENE	N/K	20-Nov, 20:26
4-6km N	Recorded	1	Projectile	WSW to ENE	N/K	20-Nov, 20:31
4-6km N	Recorded	1	Projectile	WSW to ENE	N/K	20-Nov, 21:35
4-6km N	Recorded	4	Projectile	E to W	N/K	20-Nov, 21:43
4-6km N	Recorded	3	Projectile	E to W	N/K	20-Nov, 22:39
4-6km N	Recorded	5	Projectile	W to E	N/K	20-Nov, 22:48
4-6km N	Recorded	7	Projectile	WSW to ENE	N/K	20-Nov, 23:33
4-6km N	Recorded	1	Explosion	Undetermined	N/K	20-Nov, 23:33
4-6km NNE	Recorded	1	Projectile	In vertical flight	N/K	20-Nov, 23:33
4-6km N	Recorded	1	Projectile	WSW to ENE	N/K	20-Nov, 23:36
4-6km N	Recorded	2	Explosion	Undetermined	N/K	20-Nov, 23:55
4-6km N	Recorded	2	Explosion	Undetermined	N/K	20-Nov, 23:56
4-6km N	Recorded	7	Projectile	E to W	N/K	21-Nov, 00:03
4-6km N	Recorded	1	Projectile	ESE to WNW	N/K	21-Nov, 00:20
4-6km N	Recorded	1	Projectile	E to W (also recorded by the SMM cameras in Lomakyne and Hnutove)	N/K	21-Nov, 00:26
4-6km N	Recorded	6	Projectile	E to W (also recorded by the SMM cameras in Lomakyne and Hnutove)	N/K	21-Nov, 00:27
4-6km N	Recorded	6	Projectile	W to E (also recorded by the SMM cameras in Lomakyne and Hnutove)	N/K	21-Nov, 00:27
4-6km N	Recorded	2	Projectile	W to E (also recorded by the SMM cameras in Lomakyne and Hnutove)	N/K	21-Nov, 00:28

4-6km N	Recorded	3	Projectile	W to E (also recorded by the SMM cameras in Lomakyne and Hnutove)	N/K	21-Nov, 00:29
4-6km N	Recorded	1	Projectile	E to W (also recorded by the SMM cameras in Lomakyne and Hnutove)	N/K	21-Nov, 00:29
4-6km N	Recorded	4	Projectile	E to W	N/K	21-Nov, 00:31
4-6km N	Recorded	4	Projectile	SSW to NNE	N/K	21-Nov, 00:33
4-6km N	Recorded	1	Projectile	E to W (also recorded by the SMM cameras in Lomakyne and Hnutove)	N/K	21-Nov, 00:36
4-6km N	Recorded	1	Projectile	E to W (also recorded by the SMM cameras in Lomakyne and Hnutove)	N/K	21-Nov, 00:37
4-6km N	Recorded	1	Projectile	E to W	N/K	21-Nov, 00:38
4-6km N	Recorded	9	Projectile	WSW to ENE	N/K	21-Nov, 00:41
4-6km N	Recorded	2	Projectile	E to W	N/K	21-Nov, 00:41
4-6km N	Recorded	2	Projectile	ESE to WNW	N/K	21-Nov, 00:42
4-6km N	Recorded	1	Projectile	W to E	N/K	21-Nov, 01:12
4-6km N	Recorded	2	Projectile	E to W	N/K	21-Nov, 01:22
4-6km N	Recorded	4	Projectile	E to W	N/K	21-Nov, 01:37
4-6km N	Recorded	12	Projectile	E to W	N/K	21-Nov, 02:14
4-6km N	Recorded	1	Explosion	Undetermined	N/K	21-Nov, 02:22
4-6km N	Recorded	4	Projectile	E to W	N/K	21-Nov, 02:27
4-6km N	Recorded	2	Projectile	E to W	N/K	21-Nov, 02:28
4-6km N	Recorded	3	Projectile	SW to NE	N/K	21-Nov, 02:46
4-6km N	Recorded	5	Projectile	WSW to ENE	N/K	21-Nov, 02:47
4-6km N	Recorded	1	Muzzle flash		N/K	21-Nov, 02:57
4-6km N	Recorded	1	Projectile	SW to NE (subsequent to previous event)	N/K	21-Nov, 02:57

	4-6km N	Recorded	3	Projectile	W to E	N/K	21-Nov, 02:59
	4-6km N	Recorded	1	Muzzle flash		N/K	21-Nov, 03:04
	4-6km N	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	21-Nov, 03:04
	4-6km N	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	21-Nov, 03:04
	4-6km N	Recorded	1	Projectile	W to E	N/K	21-Nov, 03:09
	4-6km N	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	21-Nov, 03:09
	4-6km N	Recorded	1	Projectile	W to E	N/K	21-Nov, 04:37
	4-6km N	Recorded	14	Projectile	E to W	N/K	21-Nov, 04:41
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	21-Nov, 04:41
	4-6km N	Recorded	1	Projectile	WSW to ENE	N/K	21-Nov, 05:55
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	21-Nov, 16:54
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	21-Nov, 16:55
	3-6km N	Recorded	15	Projectile	W to E	N/K	21-Nov, 16:59
	3-6km NNE	Recorded	3	Explosion	Undetermined	N/K	21-Nov, 17:05
	3-6km N	Recorded	26	Projectile	W to E	N/K	21-Nov, 17:13
	3-6km N	Recorded	6	Projectile	W to E	N/K	21-Nov, 17:15
	3-6km N	Recorded	1	Projectile	W to E	N/K	21-Nov, 17:27
	3-6km N	Recorded	2	Projectile	E to W	N/K	21-Nov, 17:45
	3-6km N	Recorded	1	Explosion	Undetermined (also recorded by the SMM camera in Lomakyne)	N/K	21-Nov, 17:45
	3-6km N	Recorded	1	Explosion	Undetermined	N/K	21-Nov, 17:45
	3-6km N	Recorded	1	Projectile	E to W	N/K	21-Nov, 17:46
	3-6km N	Recorded	1	Explosion	Undetermined	N/K	21-Nov, 17:46
SE part of Avdiivka (government- controlled, 17km N of Donetsk)	1km E	Heard	2	Explosion	Outgoing	N/K	21-Nov, 10:27
About 2km N of Petrivske (non- government-	2-3km SE	Heard	3	Burst	Assessed as outside the	Small arms	21-Nov, 11:19

controlled, 41km S of Donetsk)					disengagement area		
	2-3km SE	Heard	3	Shot	Assessed as outside the disengagement area	Small arms	21-Nov, 12:15
About 1km NW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	2.5km WSW	Heard and saw	2	Explosion	Impact	N/K	21-Nov, 10:27
	2-3km NW	Heard	2	Burst		Small arms	21-Nov, 12:50
2km SW of Pyshchevyk (government-controlled, 84km S of Donetsk)	2-3km S	Heard	3	Explosion	Undetermined	N/K	21-Nov, 10:40
About 2km SE of Zelenyi Hai (government-controlled, 46km SW of Donetsk)	5-7km NNW	Heard	1	Explosion	Undetermined	N/K	21-Nov, 11:40
Horlivka (non-government-controlled, 39km NE of Donetsk)	3-5km WSW	Heard	2	Explosion	Undetermined	N/K	20-Nov, 23:52
	2-3km WSW	Heard	3	Burst		Small arms	20-Nov, 23:52
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	4-6km S	Heard	2	Explosion	Undetermined	N/K	21-Nov, 10:27
Svitlodarsk (government-controlled, 57km NE of Donetsk)	4-6km S	Heard	1	Explosion	Undetermined	N/K	21-Nov, 16:35