

Table of ceasefire violations as of 15 November 2019⁹

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera in Avdiivka (government-controlled, 17km N of Donetsk)	2-3km SE	Recorded	4	Projectile	NNW to SSE	N/K	14-Nov, 18:46
	3-5km ESE	Recorded	1	Projectile	WSW to ENE (also recorded by the SMM camera at the DFS)	N/K	14-Nov, 18:49
	3-5km ESE	Recorded	1	Projectile	NNW to SSE	N/K	14-Nov, 18:53
	2-7km ESE	Recorded	1	Explosion	Undetermined (also recorded by the SMM camera at the DFS)	N/K	14-Nov, 18:59
	2-3km SE	Recorded	7	Projectile	W to E	N/K	14-Nov, 19:45
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	1-2km SSW	Recorded	15	Projectile	E to W	N/K	15-Nov, 18:16
	0.7-1km SSW	Recorded	15	Projectile	E to W	N/K	15-Nov, 18:31
SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk)	3-6km ESE	Recorded	2	Projectile	NNE to SSW	N/K	14-Nov, 18:56
	3-6km SE	Recorded	1	Projectile	N to S	N/K	14-Nov, 19:25
	2-4km ESE	Recorded	2	Projectile	NNE to SSW	N/K	15-Nov, 00:26
	2-4km ESE	Recorded	1	Muzzle flash		N/K	15-Nov, 00:26
	2-4km SE	Recorded	1	Projectile	NNE to SSW	N/K	15-Nov, 00:26
	2-4km E	Recorded	1	Projectile	NNW to SSE	N/K	15-Nov, 00:42
	2-4km SE	Recorded	2	Projectile	NNE to SSW	N/K	15-Nov, 02:12
	2-4km ESE	Recorded	5	Projectile	SSW to NNE	N/K	15-Nov, 03:05
	2-4km ESE	Recorded	5	Projectile	SSW to NNE	N/K	15-Nov, 03:06
	2-4km ESE	Recorded	3	Projectile	SSW to NNE	N/K	15-Nov, 03:54
	2-4km ESE	Recorded	2	Explosion	Impact	N/K	15-Nov, 04:52
	2-4km ESE	Recorded	6	Projectile	SSW to NNE	N/K	15-Nov, 04:52
SMM camera E of Lomakyne (government-controlled, 93km S of Donetsk)	3-5km ESE	Recorded	5	Projectile	SSW to NNE	N/K	15-Nov, 17:07
	3-5km ESE	Recorded	5	Projectile	SSW to NNE	N/K	15-Nov, 17:08
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	1-3km ENE	Recorded	1	Illumination flare	NE to SW	N/K	14-Nov, 20:33
	1-3km ENE	Recorded	1	Illumination flare	In vertical flight	N/K	14-Nov, 20:46
	1-3km ENE	Recorded	1	Illumination flare	NE to SW	N/K	14-Nov, 20:53
	1-3km ENE	Recorded	5	Projectile	NNW to SSE	N/K	14-Nov, 20:57
	1-3km ENE	Recorded	1	Projectile	N to S	N/K	14-Nov, 21:03
	1-3km ENE	Recorded	1	Projectile	NW to SE	N/K	14-Nov, 21:05
	1-3km ENE	Recorded	1	Projectile	N to S	N/K	14-Nov, 21:05
	1-3km ENE	Recorded	2	Projectile	N to S	N/K	14-Nov, 21:07
	1-3km ENE	Recorded	2	Projectile	NW to SE	N/K	14-Nov, 21:07
1-3km ENE	Recorded	1	Projectile	N to S	N/K	14-Nov, 21:08	

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.

	1-3km ENE	Recorded	1	Projectile	NW to SE	N/K	14-Nov, 21:09
	1-3km ENE	Recorded	5	Projectile	NNW to SSE	N/K	14-Nov, 21:17
	1-3km ENE	Recorded	1	Projectile	N to S	N/K	14-Nov, 21:57
	1-3km ENE	Recorded	1	Projectile	N to S	N/K	14-Nov, 22:01
	1-3km ENE	Recorded	1	Projectile	N to S	N/K	14-Nov, 22:08
	1-3km ENE	Recorded	1	Projectile	N to S	N/K	14-Nov, 22:09
	1-3km ENE	Recorded	1	Projectile	N to S	N/K	14-Nov, 22:10
	1-3km ENE	Recorded	2	Projectile	N to S	N/K	14-Nov, 22:11
	1-3km ENE	Recorded	1	Projectile	NNW to SSE	N/K	14-Nov, 22:11
	1-3km ENE	Recorded	1	Illumination flare	NE to SW	N/K	14-Nov, 22:25
	1-3km ENE	Recorded	1	Illumination flare	N to S	N/K	14-Nov, 22:27
	1-3km ENE	Recorded	1	Illumination flare	NE to SW	N/K	14-Nov, 22:33
	1-3km ENE	Recorded	4	Projectile	NNW to SSE	N/K	15-Nov, 00:41
	SMM camera in Petrivske (non-government-controlled, 41km S of Donetsk)	0.5-1km N	Recorded	1	Muzzle flash	Assessed as outside the disengagement area	N/K
SMM camera at entry-exit checkpoint in Pyshchevyk (government-controlled, 84km S of Donetsk)	2-4km ESE	Recorded	2	Projectile	S to N	N/K	14-Nov, 18:52
	2-4km ENE	Recorded	2	Projectile	N to S	N/K	15-Nov, 00:48
SMM camera 1km SW of Shyrokyne (government-controlled, 100km S of Donetsk)	4-6km N	Recorded	1	Explosion	Undetermined	N/K	14-Nov, 18:00
	3-5km N	Recorded	2	Projectile	W to E	N/K	14-Nov, 18:33
	3-4km N	Recorded	4	Explosion	Undetermined	N/K	14-Nov, 18:33
	4-6km N	Recorded	2	Projectile	W to E	N/K	14-Nov, 19:10
	4-6km N	Recorded	1	Projectile	In vertical flight	N/K	14-Nov, 19:19
	4-6km N	Recorded	3	Projectile	E to W	N/K	14-Nov, 19:21
	4-6km N	Recorded	6	Projectile	E to W	N/K	14-Nov, 19:21
	4-6km N	Recorded	3	Projectile	E to W	N/K	14-Nov, 19:26
	4-6km N	Recorded	1	Projectile	In vertical flight	N/K	14-Nov, 19:26
	3-5km N	Recorded	4	Projectile	E to W	N/K	14-Nov, 20:00
	3-5km N	Recorded	4	Projectile	E to W	N/K	14-Nov, 20:01
	3-5km N	Recorded	1	Projectile	E to W	N/K	14-Nov, 20:04
	3-5km NNE	Recorded	2	Projectile	W to E	N/K	14-Nov, 20:04
	3-5km N	Recorded	2	Muzzle flash		N/K	14-Nov, 20:06
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	14-Nov, 20:53
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	14-Nov, 21:23
	3-5km N	Recorded	7	Projectile	E to W	N/K	14-Nov, 21:45
	3-5km N	Recorded	3	Projectile	E to W	N/K	14-Nov, 21:46
	3-5km N	Recorded	4	Projectile	E to W	N/K	14-Nov, 21:46
	3-5km N	Recorded	1	Projectile	In vertical flight	N/K	14-Nov, 21:49
	3-5km N	Recorded	3	Projectile	E to W	N/K	14-Nov, 21:54
	3-5km N	Recorded	1	Projectile	S to N	N/K	14-Nov, 21:54
	3-5km N	Recorded	2	Explosion	Undetermined	N/K	14-Nov, 22:01
	3-5km N	Recorded	3	Projectile	E to W	N/K	14-Nov, 22:01
	2-4km NNE	Recorded	2	Projectile	ESE to WNW	N/K	14-Nov, 23:38
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	14-Nov, 23:42
	3-5km NNE	Recorded	3	Projectile	W to E	N/K	15-Nov, 01:19
	3-5km NNE	Recorded	3	Projectile	S to N	N/K	15-Nov, 03:23
	3-5km NNE	Recorded	3	Projectile	E to W	N/K	15-Nov, 03:24
	3-5km N	Recorded	8	Projectile	E to W	N/K	15-Nov, 03:26
	3-5km NNE	Recorded	15	Projectile	W to E	N/K	15-Nov, 03:29
	3-5km NNE	Recorded	8	Projectile	W to E	N/K	15-Nov, 03:50
3-5km NNE	Recorded	1	Projectile	E to W	N/K	15-Nov, 03:50	

3-5km NNE	Recorded	1	Projectile	W to E	N/K	15-Nov, 03:51
3-5km NNE	Recorded	4	Projectile	W to E	N/K	15-Nov, 03:58
3-5km NNE	Recorded	4	Projectile	W to E	N/K	15-Nov, 03:59
3-5km NNE	Recorded	9	Projectile	W to E	N/K	15-Nov, 04:08
3-5km NNE	Recorded	2	Projectile	W to E	N/K	15-Nov, 04:20
3-5km N	Recorded	1	Muzzle flash		N/K	15-Nov, 04:21
3-5km N	Recorded	1	Projectile	E to W (subsequent to previous event)	N/K	15-Nov, 04:21
3-5km NNE	Recorded	1	Muzzle flash		N/K	15-Nov, 04:22
3-5km NNE	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	15-Nov, 04:22
3-5km NNE	Recorded	6	Projectile	W to E	N/K	15-Nov, 04:22
3-5km N	Recorded	4	Projectile	E to W	N/K	15-Nov, 04:22
3-5km NNE	Recorded	9	Projectile	W to E	N/K	15-Nov, 04:23
3-5km N	Recorded	6	Projectile	E to W	N/K	15-Nov, 04:25
3-5km NNE	Recorded	3	Projectile	W to E	N/K	15-Nov, 04:31
3-5km N	Recorded	4	Projectile	E to W	N/K	15-Nov, 04:33
3-5km N	Recorded	1	Projectile	E to W	N/K	15-Nov, 04:36
3-5km NNE	Recorded	16	Projectile	W to E	N/K	15-Nov, 04:37
3-5km NNE	Recorded	1	Muzzle flash		N/K	15-Nov, 04:41
3-5km NNE	Recorded	1	Projectile	W to E	N/K	15-Nov, 04:41
3-5km NNE	Recorded	13	Projectile	W to E	N/K	15-Nov, 04:42
3-5km N	Recorded	1	Projectile	W to E	N/K	15-Nov, 04:52
3-5km N	Recorded	1	Explosion	Impact, subsequent to previous event	N/K	15-Nov, 04:52
3-5km NNE	Recorded	7	Projectile	W to E	N/K	15-Nov, 04:53
3-5km NNE	Recorded	1	Muzzle flash		N/K	15-Nov, 04:54
3-5km NNE	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	15-Nov, 04:54
3-5km NNE	Recorded	7	Projectile	W to E	N/K	15-Nov, 04:54
3-5km NNE	Recorded	3	Projectile	W to E	N/K	15-Nov, 04:55
3-5km NNE	Recorded	2	Projectile	W to E	N/K	15-Nov, 04:59
3-5km NNE	Recorded	11	Projectile	W to E	N/K	15-Nov, 05:00
3-5km NNE	Recorded	1	Muzzle flash		N/K	15-Nov, 05:01
3-5km NNE	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	15-Nov, 05:01
2-7km N	Recorded	5	Projectile	W to E	N/K	15-Nov, 17:07
2-7km N	Recorded	2	Muzzle flash		N/K	15-Nov, 17:07
2-7km N	Recorded	7	Projectile	W to E	N/K	15-Nov, 17:08
2-7km N	Recorded	1	Projectile	E to W	N/K	15-Nov, 17:08
2-7km N	Recorded	1	Projectile	E to W	N/K	15-Nov, 17:09
2-7km N	Recorded	9	Projectile	W to E	N/K	15-Nov, 17:10
2-7km N	Recorded	9	Projectile	E to W	N/K	15-Nov, 17:11
2-7km N	Recorded	6	Projectile	W to E	N/K	15-Nov, 17:24
2-7km N	Recorded	5	Projectile	E to W	N/K	15-Nov, 17:39
2-7km N	Recorded	2	Projectile	E to W	N/K	15-Nov, 17:44
2-7km N	Recorded	3	Projectile	E to W	N/K	15-Nov, 17:45
2-7km N	Recorded	1	Projectile	E to W	N/K	15-Nov, 17:46
2-7km N	Recorded	1	Projectile	E to W	N/K	15-Nov, 17:47
2-7km N	Recorded	2	Projectile	E to W	N/K	15-Nov, 17:48
2-7km N	Recorded	2	Projectile	SW to NE	N/K	15-Nov, 17:48
2-7km N	Recorded	2	Projectile	W to E	N/K	15-Nov, 17:49
2-7km N	Recorded	5	Projectile	E to W	N/K	15-Nov, 17:49
2-7km N	Recorded	9	Projectile	E to W	N/K	15-Nov, 17:50
2-7km N	Recorded	1	Muzzle flash		N/K	15-Nov, 18:05

	2-7km N	Recorded	1	Explosion	Undetermined	N/K	15-Nov, 18:05
	2-7km N	Recorded	1	Burst	E to W	N/K	15-Nov, 18:21
	2-7km N	Recorded	2	Projectile	E to W	N/K	15-Nov, 18:24
	2-7km N	Recorded	1	Explosion	Undetermined	N/K	15-Nov, 18:28
	2-7km N	Recorded	1	Explosion	Undetermined	N/K	15-Nov, 18:33
SE part of Avdiivka (government-controlled, 17km N of Donetsk)	1-2km NE	Heard		Shot	Uncountable, overlapping	Small arms	15-Nov, 13:17-13:20
	2-3km SE	Heard	1	Explosion	Undetermined	N/K	15-Nov, 13:17
	2-3km SE	Heard	1	Explosion	Undetermined	N/K	15-Nov, 13:22
Mykhailivka (government-controlled, 47km NW of Donetsk)	2-3km NE	Heard	2	Explosion	Undetermined	N/K	15-Nov, 12:11-12:12
About 1km SE of Spartak (non-government-controlled, 9km N of Donetsk)	4-5km SW	Heard	1	Explosion	Undetermined	N/K	15-Nov, 12:21
	4-5km SW	Heard	2	Explosion	Undetermined	N/K	15-Nov, 12:59
About 500m NE of Vesele (non-government-controlled, 9km NW of Donetsk)	4-5km NW	Heard	5	Explosion	Undetermined	N/K	15-Nov, 13:25
2km SW of Pyshevyk (government-controlled, 84km S of Donetsk)	3-4km ESE	Saw	1	Explosion	Undetermined (with visible black smoke)	N/K	15-Nov, 09:45
About 1km W of Verkhnohyrokovske (formerly Oktiabr, non-government-controlled, 85km S of Donetsk)	3-5km SSE	Heard	4	Explosion	Undetermined	N/K	15-Nov, 10:57
	300-800m SE	Heard	60	Shot		Small arms	15-Nov, 10:57
Svitlodarsk (government-controlled, 57km NE of Donetsk)	3-4km SE	Heard	10	Explosion	Undetermined	N/K	14-Nov, 19:00-19:05
	3-4km SE	Heard	14	Shot		Small arms	14-Nov, 19:13-19:14
	3-4km SE	Heard	12	Burst		HMG	14-Nov, 19:15-19:16
	3-4km SE	Heard	3	Shot		Small arms	14-Nov, 19:28
	3-4km ESE	Heard	35	Shot		Small arms	14-Nov, 19:40-19:42
	3-4km ESE	Heard	6	Burst		HMG	14-Nov, 19:43
	4-5km SE	Heard	6	Burst		HMG	14-Nov, 19:54
	3-4km SE	Heard	3	Burst		HMG	14-Nov, 19:57
	4-5km SE	Heard	30	Burst		HMG	14-Nov, 20:08-20:09
	4-5km SE	Heard	3	Burst		HMG	14-Nov, 20:28
	4-5km SE	Heard	15	Burst		HMG	14-Nov, 22:07-22:08
	4-5km SE	Heard	5	Burst		HMG	14-Nov, 22:11
	4-5km SE	Heard	3	Burst		HMG	14-Nov, 22:22
	4-5km SE	Heard	2	Explosion	Undetermined	N/K	14-Nov, 22:26
	4-5km SE	Heard	10	Burst		HMG	14-Nov, 22:30
	4-5km SE	Heard	1	Explosion	Undetermined	N/K	14-Nov, 22:34
	4-5km SE	Heard	15	Shot		Small arms	14-Nov, 22:48
4-5km SE	Heard	1	Explosion	Undetermined	N/K	14-Nov, 22:53	
4-5km SE	Heard	15	Burst		HMG	14-Nov, 22:56-22:57	

	4-5km SE	Heard	20	Burst		HMG	14-Nov, 23:25-23:26
	4-5km SE	Heard	9	Burst		HMG	14-Nov, 23:47
	4-5km SE	Heard	12	Burst		HMG	14-Nov, 23:53-23:54
	3-4km SE	Heard	17	Burst		HMG	14-Nov, 23:58-23:59
	3-4km SE	Heard	8	Burst		HMG	14-Nov, 00:00
	3-4km SE	Heard	10	Burst		HMG	15-Nov, 07:05
	3-4km SE	Heard	12	Burst		HMG	15-Nov, 07:17
	3-4km SE	Heard	1	Explosion	Undetermined	N/K	15-Nov, 10:09
	3-4km SE	Heard	1	Explosion	Undetermined	N/K	15-Nov, 11:18
	3-4km SE	Heard	9	Burst		HMG	15-Nov, 15:02
	3-4km SE	Heard	2	Explosion	Undetermined	N/K	15-Nov, 16:01
	3-4km SE	Heard	16	Burst		HMG	15-Nov, 16:13
	3-4km SE	Heard	3	Explosion	Undetermined	N/K	15-Nov, 16:31
	3-4km SE	Heard	22	Burst		HMG	15-Nov, 16:56-16:57
	3-4km SE	Heard	30	Burst		HMG	15-Nov, 17:00-17:01
	3-4km SE	Heard	7	Explosion	Undetermined	N/K	15-Nov, 17:02
	3-4km SE	Heard	6	Explosion	Undetermined	N/K	15-Nov, 17:04
	3-4km SE	Heard	8	Explosion	Undetermined	N/K	15-Nov, 17:20-17:22
	3-4km SE	Heard	6	Explosion	Undetermined	N/K	15-Nov, 17:47
	3-4km SE	Heard	3	Explosion	Undetermined	N/K	15-Nov, 17:53
	3-4km SE	Heard	2	Explosion	Undetermined	N/K	15-Nov, 18:01
	3-4km SE	Heard	1	Explosion	Undetermined	N/K	15-Nov, 18:05
	3-4km SE	Heard	1	Explosion	Undetermined	N/K	15-Nov, 18:13
	3-4km SE	Heard	3	Explosion	Undetermined	N/K	15-Nov, 18:25
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	2-3km S	Heard	1	Explosion	Undetermined	N/K	15-Nov, 13:17
	3-4km S	Heard	1	Explosion	Undetermined	N/K	15-Nov, 13:22
SMM camera in Zolote (government-controlled, 60km W of Luhansk)	3-5km ENE	Recorded	1	Explosion	Airburst (assessed as outside the disengagement area)	N/K	14-Nov, 18:59
	2-4km ENE	Recorded	1	Projectile	NNW to SSE (assessed as outside the disengagement area)	N/K	14-Nov, 19:00
	3-5km ENE	Recorded	1	Explosion	Airburst (assessed as outside the disengagement area)	N/K	14-Nov, 19:00
N edge of Popasna (government-controlled, 69km W of Luhansk)	4-6km SE	Heard	15	Shot	(Assessed as outside the Zolote disengagement area)	N/K	14-Nov, 18:42-19:00
	4-6km SE	Heard	22	Burst	(Assessed as outside the disengagement area)	N/K	14-Nov, 18:42-19:00
	10-12km NE	Heard	7	Explosion	Undetermined	N/K	14-Nov, 18:42-19:00
	10-15km ENE	Heard	58	Explosion	Undetermined	N/K	15-Nov,

					(assessed as outside the Zolote disengagement area)		06:42-07:08
SE edge of Zolote-5/Mykhailivka (non-government-controlled, 58km W of Luhansk)	4-6km ENE	Heard	1	Explosion	Undetermined (assessed as outside the Zolote disengagement area)	N/K	15-Nov, 10:10
S edge of the disengagement area near Zolote (government-controlled, 60km W of Luhansk)	10-15km SSW	Heard	10	Explosion	Undetermined	N/K	15-Nov, 12:20-12:40
	10km SSW	Heard	4	Explosion	Undetermined	N/K	15-Nov, 13:12-13:14
	10km SSW	Heard	15	Explosion	Undetermined	N/K	15-Nov, 13:26-13:30
	10km SSW	Heard	25	Burst		N/K	15-Nov, 13:26-13:30
1km SE of Kalynove-Borshchuvate (non-government-controlled, 61km W of Luhansk)	2-3km SW	Heard	120	Shot		N/K	15-Nov, 13:54-14:00