

Table of ceasefire violations as of 5 November 2019¹⁰

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date and time
SMM camera in Avdiivka (government-controlled, 17km N of Donetsk)	3-4km ESE	Recorded	4	Explosion	Undetermined	N/K	5-Nov, 01:08
	3-4km ESE	Recorded	13	Projectile	SW to NE	N/K	5-Nov, 01:08
	3-4km ESE	Recorded	8	Projectile	SW to NE	N/K	5-Nov, 02:00
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	140-160m S	Recorded	2	Explosion	Impact	N/K	4-Nov, 18:24
	0.7-1.2km S	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 21:05
	200-400m SSW	Recorded	1	Explosion	Outgoing	N/K	4-Nov, 21:32
	0.2-1km SSW	Recorded	1	Projectile	NNW to SSE	N/K	4-Nov, 21:32
	0.7-1.2km S	Recorded	2	Explosion	Undetermined	N/K	4-Nov, 21:36
	0.7-1.2km S	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 21:37
	200-400m SSW	Recorded	8	Muzzle flash		N/K	4-Nov, 21:46
	200-400m SSW	Recorded	4	Muzzle flash		N/K	4-Nov, 21:53
	200-400m SSW	Recorded	1	Muzzle flash		N/K	4-Nov, 21:57
	200-400m SSW	Recorded	1	Muzzle flash		N/K	4-Nov, 21:58
	0.7-1km SSE	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 22:08
	100-300m SSE	Recorded	1	Explosion	Airburst	N/K	4-Nov, 22:08
	0.5-1km SSW	Recorded	2	Projectile	SSE to NNW	N/K	4-Nov, 22:20
	200-400m SSW	Recorded	2	Muzzle flash		N/K	4-Nov, 22:50
	0.7-1km SSE	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 22:50
	200-400m SSW	Recorded	3	Muzzle flash		N/K	4-Nov, 22:51
	200-400m S	Recorded	1	Muzzle flash		N/K	4-Nov, 22:54
	200-400m S	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 22:54
	0.6-1km SSE	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 22:54
	200-400m SSW	Recorded	4	Muzzle flash		N/K	4-Nov, 23:09
	200-400m SSW	Recorded	1	Muzzle flash		N/K	4-Nov, 23:34
	200-400m SSW	Recorded	1	Muzzle flash		N/K	4-Nov, 23:38
	500-800m SSW	Recorded	1	Explosion	Impact	N/K	4-Nov, 23:38
	200-400m SSW	Recorded	1	Muzzle flash		N/K	4-Nov, 23:50
	1-2km SSW	Recorded	2	Projectile	SE to NW	N/K	5-Nov, 00:22
	1-2km SSW	Recorded	1	Projectile	WNW to ESE	N/K	5-Nov, 00:41
	1-2km SSW	Recorded	1	Projectile	N to S	N/K	5-Nov, 00:41
	300-500m S	Recorded	1	Projectile	W to E	N/K	5-Nov, 01:19
300-500m S	Recorded	1	Muzzle flash		N/K	5-Nov, 01:19	
200-500m SSW	Recorded	8	Muzzle flash		N/K	5-Nov, 01:29	
SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk)	2-4km SE	Recorded	1	Projectile		N/K	4-Nov, 19:38
	2-4km SSE	Recorded	1	Explosion	Airburst	N/K	4-Nov, 19:38
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 20:26
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 20:29
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 20:32
	2-4km SSE	Recorded	1	Muzzle flash		N/K	4-Nov, 20:32
	2-4km SSE	Recorded	1	Projectile	NNE to SSW	N/K	4-Nov, 20:32
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 21:01
	2-4km SSE	Recorded	1	Muzzle flash		N/K	4-Nov, 21:01
	2-4km SSE	Recorded	3	Projectile	NNE to SSW	N/K	4-Nov, 21:19
	2-4km SSE	Recorded	4	Projectile	SSW to NNE	N/K	4-Nov, 21:19
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 21:32
	2-4km SSE	Recorded	2	Projectile	WSW to ENE	N/K	4-Nov, 22:04
	2-4km SSE	Recorded	3	Muzzle flash		N/K	4-Nov, 22:07
	2-4km SSE	Recorded	22	Projectile	NNE to SSW	N/K	4-Nov, 22:08
	2-4km SSE	Recorded	2	Projectile	WSW to ENE	N/K	4-Nov, 22:08

¹⁰ 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.

	2-4km SSE	Recorded	3	Projectile	WSW to ENE	N/K	4-Nov, 22:10
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 22:10
	2-4km SSE	Recorded	1	Muzzle flash		N/K	4-Nov, 22:16
	2-4km SSE	Recorded	2	Muzzle flash		N/K	4-Nov, 22:17
	2-4km SSE	Recorded	2	Projectile	NNE to SSW	N/K	4-Nov, 22:17
	2-4km SSE	Recorded	2	Projectile	WSW to ENE	N/K	4-Nov, 22:36
	2-3km SSE	Recorded	5	Projectile	ENE to WSW	N/K	4-Nov, 22:39
	2-4km SSE	Recorded	3	Projectile	NNE to SSW	N/K	4-Nov, 22:39
	2-4km SSE	Recorded	8	Projectile	WSW to ENE	N/K	4-Nov, 23:09
	2-4km SSE	Recorded	8	Projectile	WSW to ENE	N/K	4-Nov, 23:22
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 23:58
	2-4km SSE	Recorded	2	Projectile	WSW to ENE	N/K	5-Nov, 00:20
	2-4km SSE	Recorded	2	Projectile	NNE to SSW	N/K	5-Nov, 00:28
	2-4km SSE	Recorded	1	Projectile	NNE to SSW	N/K	5-Nov, 01:07
	2-4km SSE	Recorded	5	Projectile	WSW to ENE	N/K	5-Nov, 05:05
	2-4km SSE	Recorded	14	Projectile	WSW to ENE	N/K	5-Nov, 05:22
SMM camera in Krasnohorivka (government-controlled, 21km W of Donetsk)	3-4km NNE	Recorded	4	Projectile	W to E	N/K	4-Nov, 22:05
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	2-4km ESE	Recorded	2	Projectile	In vertical flight	N/K	4-Nov, 21:40
	1-3km ENE	Recorded	1	Projectile	N to S	N/K	5-Nov, 03:08
	1-3km ENE	Recorded	1	Projectile	N to S	N/K	5-Nov, 04:52
	1-3km ENE	Recorded	1	Projectile	NW to SE	N/K	5-Nov, 05:08
SMM camera at entry-exit checkpoint in Pyshevyk (government-controlled, 84km S of Donetsk)	2-3km S	Recorded	1	Projectile	E to W	N/K	4-Nov, 19:38
	2-3km S	Recorded	1	Explosion	Impact	N/K	4-Nov, 19:38
	3-5km S	Recorded	8	Projectile	W to E	N/K	4-Nov, 22:45
	3-5km S	Recorded	1	Projectile	W to E	N/K	4-Nov, 22:59
	3-5km S	Recorded	1	Explosion	Impact	N/K	4-Nov, 22:59
	2-3km S	Recorded	2	Projectile	E to W	N/K	4-Nov, 23:13
	3-5km S	Recorded	5	Projectile	W to E	N/K	4-Nov, 23:31
	2-3km S	Recorded	6	Projectile	E to W	N/K	5-Nov, 00:20
	2-3km S	Recorded	6	Projectile	E to W	N/K	5-Nov, 00:55
	2-3km S	Recorded	1	Projectile	E to W	N/K	5-Nov, 03:15
	3-5km S	Recorded	4	Projectile	W to E	N/K	5-Nov, 03:36
	3-5km S	Recorded	1	Projectile	W to E	N/K	5-Nov, 04:32
	3-5km S	Recorded	15	Projectile	W to E	N/K	5-Nov, 04:33
	3-5km S	Recorded	1	Projectile	W to E	N/K	5-Nov, 05:14
SMM camera in Svitlodarsk (government-controlled, 57km NE of Donetsk)	4-6km ESE	Recorded	2	Projectile	S to N	N/K	5-Nov, 01:19
	4-6km ESE	Recorded	1	Projectile	S to N	N/K	5-Nov, 01:20
Debaltseve (non-government-controlled, 58km NE of Donetsk)	4-6km NW	Heard	1	Explosion	Undetermined	N/K	4-Nov, 20:31
	4-6km NW	Heard	10	Explosion	Undetermined	N/K	4-Nov, 20:53-20:58
About 1km E of Kruta Balka (non-government-controlled, 16km N of Donetsk)	2km N	Heard	3	Burst		Small arms	5-Nov, 11:00
About 1km N of the railway station in Yasnuvata (non-government-controlled, 16km NE of Donetsk)	3-5km SW	Heard	1	Explosion	Undetermined	N/K	5-Nov, 08:47
About 1km NW of the railway station in Yasnuvata (non-government-controlled, 16km NE of Donetsk)	2-4km SSE	Heard	2	Burst		HMG	5-Nov, 09:12
	2-4km SSE	Heard	2	Burst		HMG	5-Nov, 09:20

of Donetsk)							
Railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	2-4km SW	Heard	1	Explosion	Undetermined	N/K	5-Nov, 10:17
W edge of Donetsk city's Petrovskiyi district (non-government-controlled, 15km SW of Donetsk city centre)	1-3km SSW	Heard	3	Burst		HMG	5-Nov, 12:15
	1-3km SSW	Heard	1	Burst		HMG	5-Nov, 12:16
	1-3km S	Heard	4	Shot		Small arms	5-Nov, 12:17
	0.5-1km S	Heard	5	Shot		Small arms	5-Nov, 12:22
Krasnohorivka (government-controlled, 21km W of Donetsk)	2-3km E	Heard	6	Explosion	Undetermined	N/K	5-Nov, 09:41-09:45
	2-3km E	Heard	5	Explosion	Undetermined	N/K	5-Nov, 09:49-09:53
	4-6km E	Heard	1	Explosion	Undetermined	N/K	5-Nov, 10:04
About 2km E of Avdiivka (government-controlled, 17km N of Donetsk)	3-5km SE	Heard	1	Explosion	Undetermined	N/K	5-Nov, 10:40
	3-4km NE	Heard	1	Explosion	Undetermined	N/K	5-Nov, 11:15
SW edge of Avdiivka (government-controlled, 17km N of Donetsk)	1-2km S	Heard	3	Shot		Small arms	5-Nov, 12:33
Orlivske (government-controlled, 82km S of Donetsk)	4-6km ESE	Heard	8	Explosion	Undetermined	N/K	5-Nov, 12:03
	4-6km ESE	Heard	3	Explosion	Undetermined	N/K	5-Nov, 12:15-12:20
	2-3km ESE	Heard	2	Shot		Small arms	5-Nov, 12:35-12:42
	4-6km ESE	Heard	5	Explosion	Undetermined	N/K	5-Nov, 12:35-12:42
	4-6km ESE	Heard	7	Burst		Cannon 30mm	5-Nov, 12:35-12:42
	8-10km ESE	Heard	2	Explosion	Undetermined	N/K	5-Nov, 12:48
Talakivka (government-controlled, 90km S of Donetsk)	N/K SE	Heard	2	Explosion	Undetermined	N/K	5-Nov, 09:50
	N/K SE	Heard	11	Explosion	Undetermined	N/K	5-Nov, 10:02-10:10
	N/K SE	Heard	3	Burst		Small arms	5-Nov, 10:02-10:10
About 2km NE of Chernenko (government-controlled, 86km S of Donetsk)	N/K SSE	Heard	2	Explosion	Undetermined	N/K	5-Nov, 09:45
	N/K SSE	Heard	3	Explosion	Undetermined	N/K	5-Nov, 11:02
Pavlopil (government-controlled, 84km S of Donetsk)	3-5km SSW	Heard	6	Explosion	Undetermined	N/K	5-Nov, 12:06-12:07
	3-5km SSW	Heard	3	Explosion	Undetermined	N/K	5-Nov, 12:14-12:15
1km SE of Pavlopil (government-controlled, 84km S of Donetsk)	2-4km SE	Heard	2	Explosion	Undetermined	N/K	5-Nov, 12:34
	2-4km SE	Heard	6	Explosion	Undetermined	N/K	5-Nov, 12:35-12:38
	2-4km SE	Heard	15	Burst		HMG	5-Nov, 12:40-12:55
	2-4km SE	Heard	10	Shot		Small arms	5-Nov, 12:40-12:55
	2-4km SE	Heard	3	Explosion	Undetermined	N/K	5-Nov, 12:40-12:55
Svitlodarsk (government-controlled, 57km NE of Donetsk)	4-5km SE	Heard	8	Explosion	Undetermined	N/K	4-Nov, 18:35-18:42
	4-5km S	Heard	10	Explosion	Undetermined	N/K	4-Nov, 18:43-18:49
	4-5km S	Heard	3	Explosion	Undetermined	N/K	4-Nov, 20:00-20:02

	4-5km S	Heard	2	Explosion	Undetermined	N/K	4-Nov, 20:08-20:10
	4-5km SE	Heard	10	Burst		HMG	4-Nov, 20:40-20:43
	4-5km SE	Heard	1	Explosion	Undetermined	N/K	4-Nov, 20:45
	3-5km SE	Heard	10	Burst		HMG	4-Nov, 21:20-21:21
	3-5km SE	Heard	8	Burst		HMG	4-Nov, 23:32-23:33
Horlivka (non-government-controlled, 39km NE of Donetsk)	3-5km SW	Heard	3	Shot		Small arms	4-Nov, 20:40
	3-5km W	Heard	1	Explosion		N/K	4-Nov, 20:45
	3-5km NW	Heard	3	Burst		Small arms	4-Nov, 23:46
	3-5km SW	Heard	2	Explosion	Undetermined	N/K	5-Nov, 14:49
	3-5km SW	Heard	2	Explosion	Undetermined	N/K	5-Nov, 14:54
	3-5km SW	Heard	7	Explosion	Undetermined	N/K	5-Nov, 15:05
About 6km NW of Horlivka (non-government controlled, 39km NE of Donetsk)	4-6km W	Heard	16	Explosion	Undetermined	N/K	5-Nov, 10:20-10:27
7km NW of Horlivka (non-government controlled, 39km NE of Donetsk)	2-3km W	Heard	4	Explosion	Undetermined	N/K	5-Nov, 13:40
Pravdivka (government-controlled, 38km N of Donetsk)	1-2km SSW	Heard	4	Burst		Small arms	5-Nov, 10:20-10:30
	1-2km SSW	Heard	10	Shot		Small arms	5-Nov, 10:20-10:30
	1-2km SSW	Heard	4	Burst		Small arms	5-Nov, 10:33-10:36
	1-2km SSW	Heard	10	Shot		Small arms	5-Nov, 10:33-10:36
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	2-3km S	Heard	4	Burst		Small arms	5-Nov, 08:52
	1-2km SSE	Heard	1	Explosion	Undetermined	N/K	5-Nov, 11:17
SMM camera on N edge of Popasna (government-controlled, 69km W of Luhansk)	2-4km SE	Recorded	1	Illumination flare	In vertical flight	N/K	4-Nov, 18:30
SMM camera in Zolote (government-controlled, 60km W of Luhansk)	1-2km E	Recorded	1	Projectile	NW to SE (assessed as outside the disengagement area)	N/K	4-Nov, 18:41
	1-2km E	Recorded	8	Projectile	NW to SE (assessed as outside the disengagement area)	N/K	4-Nov, 18:45
Kadiivka (formerly Stakhanov, non-government-controlled, 50km W of Luhansk)	1-2km NW	Heard	12	Shot		HMG	4-Nov, 19:07-19:08
3km SW of Metalist (non-government-controlled, 7km NW of Luhansk)	0.8-1km NW	Heard	100	Shot	Assessed as aimed at SMM mini-UAV	Small arms	5-Nov, 09:35-09:38
E edge of Stanytsia Luhanska (government-	4-5km E	Heard	1	Explosion	Undetermined (assessed as outside the	N/K	5-Nov, 17:15

controlled, 16km NE of Luhansk)					disengagement area)		
	4-5km E	Heard	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	5-Nov, 17:22
	4-5km SW	Heard	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	5-Nov, 17:55