

**Table of ceasefire violations as of 5 November 2018<sup>1</sup>**

<b>SMM position</b>	<b>Event location</b>	<b>Means</b>	<b>No.</b>	<b>Observation</b>	<b>Description</b>	<b>Weapon</b>	<b>Date, time</b>
SMM camera in Chermalyk (government-controlled, 31km NE of Mariupol)	1-2km SE	Recorded	1	Projectile	WSW to ENE	N/K	4-Nov, 21:52
	1-2km SE	Recorded	1	Projectile	ENE to WSW	N/K	5-Nov, 02:49
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	1-3km SSW	Recorded	1	Projectile	NNW to SSE	N/K	4-Nov, 23:27
	0.5-1.5km SSW	Recorded	4	Projectile	N to S	N/K	5-Nov, 01:31
	1-3km SSW	Recorded	3	Projectile	NNE to SSW	N/K	5-Nov, 01:33
	0.5-1.5km SSW	Recorded	2	Projectile	N to S	N/K	5-Nov, 01:34
	1-3km SSW	Recorded	3	Projectile	NNE to SSW	N/K	5-Nov, 01:34
	1-3km S	Recorded	2	Explosion	Undetermined	N/K	5-Nov, 01:34
	1-3km SSW	Recorded	1	Explosion	Airburst	N/K	5-Nov, 05:21
	2-4km SSW	Recorded	2	Projectile	N to S	N/K	5-Nov, 05:21
	1-3km SSW	Recorded	1	Muzzle flash	Undetermined	N/K	5-Nov, 05:21
	2-3km SSW	Recorded	1	Explosion	Undetermined	N/K	5-Nov, 17:22
	1-2km S	Recorded	1	Projectile	W to E	N/K	5-Nov, 17:25
SMM camera 1.5km NE of Hnutove (government-controlled, 20km NE of Mariupol)	2-4km E	Recorded	25	Projectile	S to N	N/K	4-Nov, 19:02
	2-4km E	Recorded	11	Projectile	S to N	N/K	4-Nov, 19:11
	2-4km ENE	Recorded	1	Projectile	N to S	N/K	4-Nov, 19:23
	2-4km E	Recorded	2	Projectile	N to S	N/K	4-Nov, 19:32
	3-5km ENE	Recorded	1	Projectile	N to S	N/K	4-Nov, 20:55
	3-5km ENE	Recorded	1	Projectile	N to S	N/K	4-Nov, 20:56
	3-5km ENE	Recorded	5	Projectile	S to N	N/K	4-Nov, 20:57
	3-5km E	Recorded	2	Projectile	S to N	N/K	4-Nov, 20:58
	3-5km ENE	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 21:09
	3-5km ENE	Recorded	1	Projectile	N to S	N/K	4-Nov, 21:22
	3-5km E	Recorded	1	Projectile	S to N	N/K	4-Nov, 22:59
	2-5km ESE	Recorded	1	Projectile	N to S	N/K	5-Nov, 00:35
	2-5km ESE	Recorded	1	Projectile	S to N	N/K	5-Nov, 00:50
	2-5km E	Recorded	9	Projectile	S to N	N/K	5-Nov, 01:02
	2-5km E	Recorded	1	Projectile	S to N	N/K	5-Nov, 01:24
	2-5km ENE	Recorded	1	Explosion	Undetermined	N/K	5-Nov, 01:24
	2-5km E	Recorded	2	Projectile	S to N	N/K	5-Nov, 01:34
	2-5km ESE	Recorded	2	Projectile	S to N	N/K	5-Nov, 01:34
	2-5km ENE	Recorded	1	Projectile	N to S	N/K	5-Nov, 01:36
	2-5km ENE	Recorded	5	Projectile	N to S	N/K	5-Nov, 01:40
	2-5km ENE	Recorded	1	Projectile	N to S	N/K	5-Nov, 01:41
	2-5km ENE	Recorded	1	Projectile	N to S	N/K	5-Nov, 01:52
	2-5km ENE	Recorded	1	Projectile	N to S	N/K	5-Nov, 02:21
	2-5km ENE	Recorded	1	Projectile	N to S	N/K	5-Nov, 02:28
	2-5km E	Recorded	6	Projectile	S to N	N/K	5-Nov, 02:32
	2-5km ENE	Recorded	2	Projectile	N to S	N/K	5-Nov, 02:33
	2-5km E	Recorded	3	Projectile	S to N	N/K	5-Nov, 02:36
	2-4km ENE	Recorded	1	Projectile	S to N	N/K	5-Nov, 17:08

<sup>1</sup> 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 ENE	Recorded	5	Projectile	N to S	N/K	5-Nov, 17:51
	2-4km ENE	Recorded	1	Projectile	S to N	N/K	5-Nov, 17:51
SMM camera E of Lomakyne (government-controlled, 15km NE of Mariupol)	2-4km ENE	Recorded	5	Projectile	N to S	N/K	4-Nov, 19:32
	2-4km ENE	Recorded	3	Muzzle flash		N/K	4-Nov, 19:32
	3-5km NE	Recorded	1	Explosion	Undetermined	N/K	5-Nov, 01:58
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	2-3km E	Recorded	2	Explosion	Undetermined	N/K	4-Nov, 19:45
	1-3km ENE	Recorded	1	Burst	S to N	N/K	4-Nov, 19:49
	1-3km E	Recorded	9	Projectile	S to N	N/K	4-Nov, 19:50
	1-3km ENE	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 19:50
	3-5km ESE	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 22:51
	3-5km E	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 22:53
	3-5km E	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 22:53
	3-5km E	Recorded	1	Explosion	Undetermined	N/K	4-Nov, 22:54
	3-5km E	Recorded	1	Projectile	S to N	N/K	4-Nov, 22:54
SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)	2-4km NNE	Recorded	2	Projectile	WNW to ESE	N/K	5-Nov, 02:43
	2-4km NNE	Recorded	2	Projectile	WNW to ESE	N/K	5-Nov, 04:22
	2-4km NNE	Recorded	1	Projectile	WNW to ESE	N/K	5-Nov, 04:23
SMM camera at Oktiabr mine (non-government-controlled, 9km NW of Donetsk city centre)	2-4km NNE	Recorded	2	Projectile	NW to SE	N/K	4-Nov, 18:48
	4-6km NE	Recorded	1	Illumination flare	In vertical flight	N/K	5-Nov, 05:21
	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	5-Nov, 17:22
SMM camera at entry-exit checkpoint in Pyshevyk (government-controlled, 25km NE of Mariupol)	1-3km SE	Recorded	3	Projectile	WSW to ENE	N/K	4-Nov, 18:45
	2-4km SSE	Recorded	3	Projectile	ENE to WSW	N/K	4-Nov, 19:33
	1-3km SE	Recorded	1	Projectile	E to W	N/K	4-Nov, 19:43
	2-4km SSE	Recorded	2	Illumination flare	In vertical flight	N/K	4-Nov, 20:28
	2-4km SSE	Recorded	2	Projectile	W to E	N/K	5-Nov, 01:54
1.1km NW of railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	3-4km SW	Heard	1	Explosion	Undetermined	N/K	5-Nov, 09:05
	1.5-2km S	Heard	7	Shot		Small arms	5-Nov, 09:05-09:10
	3-4km SW	Heard	1	Explosion	Undetermined	N/K	5-Nov, 09:26
	1.5-2km N	Heard	4	Shot		Small arms	5-Nov, 09:27
	1.5-2km N	Heard	2	Burst		Small arms	5-Nov, 09:27
	1.5-2km S	Heard	3	Shot		Small arms	5-Nov, 10:41
	2-3km SW	Heard	1	Explosion	Undetermined	N/K	5-Nov, 11:03
	1.5-2km S	Heard	13	Burst		HMG	5-Nov, 11:46-11:48
	2-3km WSW	Heard	1	Explosion	Undetermined	N/K	5-Nov, 11:50
	2-3km WSW	Heard	1	Explosion	Undetermined	N/K	5-Nov, 11:55
	4-5km S	Heard	7	Explosion	Undetermined	N/K	5-Nov, 12:58-13:05

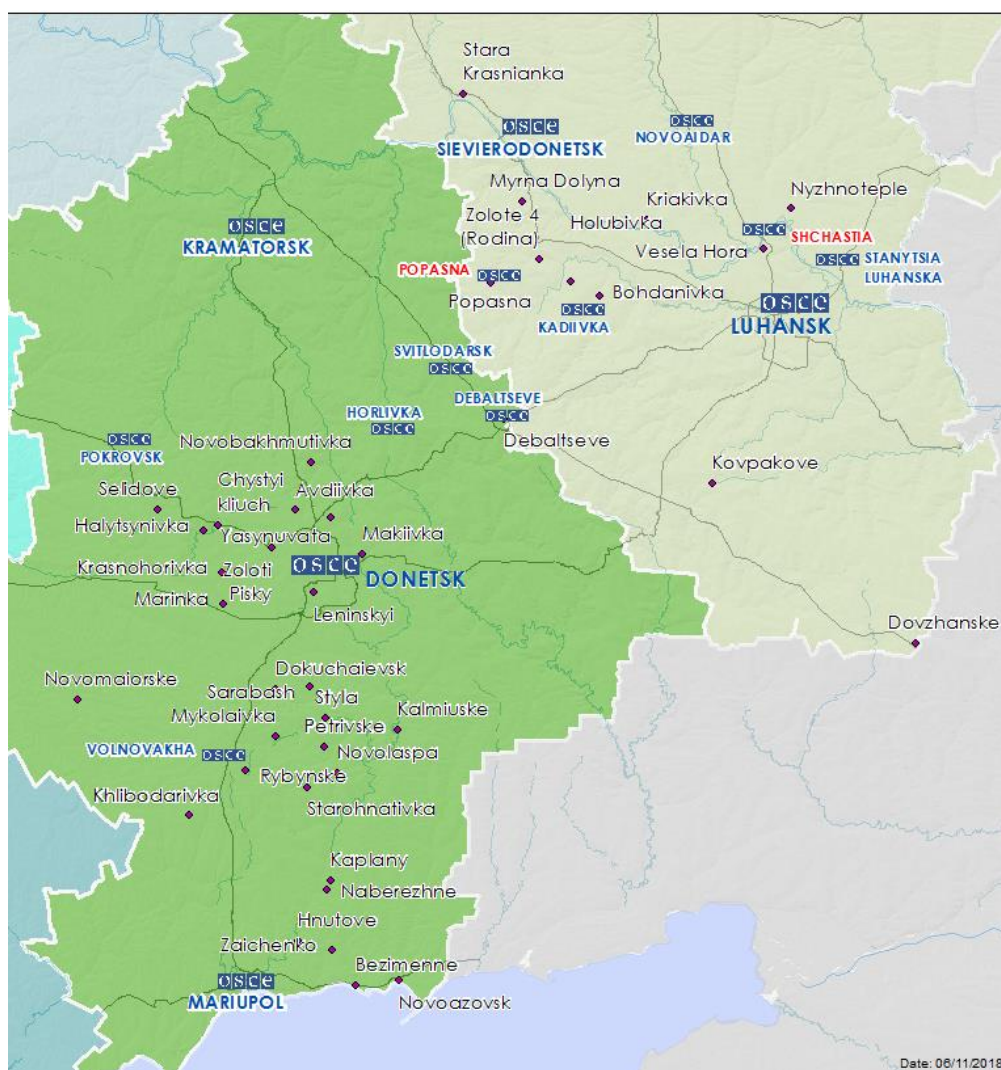
	2-3km SW	Heard	2	Explosion	Undetermined	N/K	5-Nov, 14:20-14:22
SE part of Avdiivka (government-controlled, 17km N of Donetsk)	2-3km SE	Heard	Uncountable	Shot and burst		Small arms	5-Nov, 12:22-12:25
	2-3km SE	Heard	13	Burst		HMG	5-Nov, 12:28-12:30
	2-3km SE	Heard	Uncountable	Shot and burst		Small arms	5-Nov, 12:33-12:35
SW edge of Avdiivka (government-controlled, 17km N of Donetsk)	3-4km SE	Heard	5	Explosion	Undetermined	N/K	5-Nov, 14:18-14:24
2.5km SE of Lebedynske (government-controlled, 16km NE of Mariupol)	2-3km SE	Heard	10	Shot		Small arms	5-Nov, 11:24-11:28
Starohnativka (government-controlled, 51km S of Donetsk)	2-3km E	Heard	2	Burst		HMG	5-Nov, 12:05
1km NNW of Pyshevyk (government-controlled, 25km NE of Mariupol)	1km NE	Heard	1	Explosion	Outgoing	N/K	5-Nov, 13:54
Svitlodarsk (government-controlled, 57km NE of Donetsk)	4-6km SE	Heard	2	Explosion	Undetermined	N/K	4-Nov, 19:28
	4-6km SSW	Heard	8	Explosion	Undetermined	N/K	4-Nov, 19:45-19:46
	4-5km SE	Heard	16	Burst		Small arms	4-Nov, 19:46-19:48
	4-5km SSE	Heard	14	Shot		Small arms	4-Nov, 19:48
	4-5km SSE	Heard	6	Burst		Small arms	4-Nov, 19:50
	5-7km SSW	Heard	2	Explosion	Undetermined	N/K	4-Nov, 19:50
	3-4km SE	Heard	15	Burst		Small arms	4-Nov, 19:51
	5-6km SW	Heard	1	Explosion	Undetermined	N/K	4-Nov, 19:53
	4-5km SSW	Heard	10	Shot		Small arms	4-Nov, 19:54
	4-5km SE	Heard	2	Explosion	Undetermined	N/K	4-Nov, 20:03
	6-7km SW	Heard	3	Explosion	Undetermined	N/K	4-Nov, 20:04
	4-6km S	Heard	1	Explosion	Undetermined	N/K	4-Nov, 20:05
	4-6km S	Heard	1	Explosion	Undetermined	N/K	4-Nov, 20:19
	4-5km SE	Heard	1	Explosion	Undetermined	N/K	4-Nov, 20:28
	4-5km SE	Heard	2	Explosion	Undetermined	N/K	4-Nov, 20:59
	4-5km SW	Heard	26	Burst		Small arms	4-Nov, 21:01
	4-5km SW	Heard	2	Explosion	Undetermined	N/K	4-Nov, 21:01
	4-5km SE	Heard	4	Explosion	Undetermined	N/K	4-Nov, 21:02-21:06
	4-5km SE	Heard	1	Explosion	Undetermined	N/K	4-Nov, 21:18
	5-7km E	Heard	6	Explosion	Undetermined	N/K	4-Nov, 21:25-21:27
5-7km E	Heard	3	Burst		Small arms	4-Nov, 21:28	

5-7km E	Heard	12	Explosion	Undetermined	N/K	4-Nov, 21:28-21:32
5-7km S	Heard	5	Burst		HMG	4-Nov, 21:34
5-7km S	Heard	5	Explosion	Undetermined	N/K	4-Nov, 21:35-21:36
3-4km SE	Heard	2	Explosion	Undetermined	N/K	4-Nov, 21:36
4-5km SE	Heard	2	Explosion	Undetermined	N/K	4-Nov, 21:47
4-5km SE	Heard	7	Shot		Small arms	4-Nov, 21:47
4-5km SE	Heard	6	Burst		Small arms	4-Nov, 21:48
3-4km SE	Heard	4	Shot		Small arms	4-Nov, 21:52
4-5km SE	Heard	3	Explosion	Undetermined	N/K	4-Nov, 21:55-21:59
3-4km SE	Heard	13	Burst		Small arms	4-Nov, 22:00
5-6km SE	Heard	5	Explosion	Undetermined	N/K	4-Nov, 22:00-22:02
3-4km SE	Heard	11	Burst		Small arms	4-Nov, 22:02
5-6km SE	Heard	8	Explosion	Undetermined	N/K	4-Nov, 22:03-22:05
3-4km SE	Heard	4	Burst		Small arms	4-Nov, 22:05
5-6km SE	Heard	1	Explosion	Undetermined	N/K	4-Nov, 22:06
3-4km SE	Heard	3	Burst		Small arms	4-Nov, 22:07
5-6km SE	Heard	1	Explosion	Undetermined	N/K	4-Nov, 22:07
3-4km SE	Heard	14	Burst		Small arms	4-Nov, 22:08
5-6km SE	Heard	8	Explosion	Undetermined	N/K	4-Nov, 22:09-22:11
3-4km SE	Heard	10	Burst		Small arms	4-Nov, 22:11-22:12
5-6km SE	Heard	6	Explosion	Undetermined	N/K	4-Nov, 22:13-22:15
3-4km SE	Heard	12	Burst		Small arms	4-Nov, 22:15
5-6km SE	Heard	3	Explosion	Undetermined	N/K	4-Nov, 22:16-22:17
3-4km SE	Heard	13	Burst		Small arms	4-Nov, 22:18
5-6km SE	Heard	6	Explosion	Undetermined	N/K	4-Nov, 22:20
3-4km SE	Heard	36	Burst		Small arms	4-Nov, 22:20-22:29
5-6km SE	Heard	3	Explosion	Undetermined	N/K	4-Nov, 23:00-23:01
3-4km SE	Heard	12	Burst		Small arms	4-Nov, 23:00
3-4km SE	Heard	5	Burst		Small arms	4-Nov, 23:05
5-6km SE	Heard	2	Explosion	Undetermined	N/K	4-Nov, 23:33-23:34
5-6km SE	Heard	16	Explosion	Undetermined	N/K	5-Nov, 15:14-15:25
5-6km SE	Heard	19	Burst		Small arms	5-Nov, 15:14-15:25
5-6km SE	Heard	45	Explosion	Undetermined	N/K	5-Nov, 15:35-16:00
5-6km SE	Heard	339	Burst		Small arms	5-Nov, 15:44-16:00
5-6km SE	Heard	23	Explosion	Undetermined	N/K	5-Nov, 16:03-16:21
3-4km SE	Heard	38	Burst		Small	5-Nov,

						arms	16:03-16:21
	3-4km SE	Heard	9	Burst		HMG	5-Nov, 16:17-16:19
	3-4km SE	Heard	56	Shot		Small arms	5-Nov, 16:24-16:28
	5-6km SE	Heard	4	Explosion	Undetermined	N/K	5-Nov, 17:41-17:44
	3-4km SE	Heard	11	Burst		Small arms	5-Nov, 17:41-17:44
	5-6km SE	Heard	1	Explosion	Undetermined	N/K	5-Nov, 18:11
	3-4km SE	Heard	5	Burst		Small arms	5-Nov, 18:12
E edge of Kamianka (government-controlled, 20km N of Donetsk)	2-3km E	Heard	4	Burst		HMG	5-Nov, 09:27
	4-5km SE	Heard	1	Explosion	Undetermined	N/K	5-Nov, 12:15
	4-5km SE	Heard	2	Explosion	Undetermined	N/K	5-Nov, 12:54-12:55
	4-5km SE	Heard	3	Explosion	Undetermined	N/K	5-Nov, 12:58-13:00
	4-5km SE	Heard	3	Explosion	Undetermined	N/K	5-Nov, 13:03-13:04
	1-2km NE	Heard	1	Burst		Small arms	5-Nov, 13:34
SMM camera in Kriakivka (government-controlled, 38km NW of Luhansk)	0.3-0.5km SSE	Recorded	7	Muzzle flash		N/K	5-Nov, 03:03
	0.3-0.5km SSE	Recorded	5	Muzzle flash		N/K	5-Nov, 03:03
	0.3-0.5km SSE	Recorded	9	Muzzle flash		N/K	5-Nov, 03:06
	0.3-0.5km SSE	Recorded	8	Muzzle flash		N/K	5-Nov, 03:07
	0.3-0.5km SSE	Recorded	18	Muzzle flash		N/K	5-Nov, 03:23
	0.3-0.5km SSE	Recorded	4	Muzzle flash		N/K	5-Nov, 03:24
	0.3-0.5km SSE	Recorded	1	Muzzle flash		N/K	5-Nov, 03:24
	0.3-0.5km SSE	Recorded	5	Muzzle flash		N/K	5-Nov, 03:25
	0.3-0.5km SSE	Recorded	4	Muzzle flash		N/K	5-Nov, 03:40
	0.3-0.5km SSE	Recorded	7	Muzzle flash		N/K	5-Nov, 03:57
	0.3-0.5km SSE	Recorded	2	Muzzle flash		N/K	5-Nov, 03:57
	0.3-0.5km SSE	Recorded	5	Muzzle flash		N/K	5-Nov, 03:58
	0.3-0.5km SSE	Recorded	13	Muzzle flash		N/K	5-Nov, 04:07
	0.3-0.5km SSE	Recorded	2	Muzzle flash		N/K	5-Nov, 04:07
	0.3-0.5km SSE	Recorded	3	Muzzle flash		N/K	5-Nov, 04:08
SE edge of Popasna (government-controlled, 69km W of Luhansk)	5-10km E	Heard	1	Explosion	Undetermined	N/K	5-Nov, 09:51-09:52
2km S of Muratove (government-controlled, 51km NW of Luhansk)	6-8km SSE	Heard	5	Explosion	Undetermined	N/K	5-Nov, 10:41-10:50
N edge of	4-8km E	Heard	4	Explosion	Undetermined	N/K	5-Nov,

Zolote disengagement area (government- controlled, 60km W of Luhansk)				(assessed as outside the disengagement area)		10:41-10:51
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## Map of Donetsk and Luhansk regions<sup>2</sup>



<sup>2</sup> The SMM is deployed to ten locations throughout Ukraine – Kherson, Odessa, Lviv, Ivano-Frankivsk, Kharkiv, Donetsk, Dnipro, Chernivtsi, Luhansk and Kyiv – as per Permanent Council Decision 1117 of 21 March 2014. This map of eastern Ukraine is meant for illustrative purposes and indicates locations mentioned in the report, as well as those where the SMM has offices (monitoring teams, patrol hubs, and forward patrol bases) in Donetsk and Luhansk regions. (In red: forward patrol bases from which SMM staff has temporarily relocated based on recommendations of security experts from participating States as well as SMM security considerations).