

Table of ceasefire violations as of 20 November 2018¹

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera in Avdiivka (government-controlled, 17km N of Donetsk)	2-4km SSE	Recorded	1	Projectile	NE to SW	N/K	19-Nov, 21:30
SMM camera in Chermalyk (government-controlled, 31km NE of Mariupol)	3-5km SSE	Recorded	1	Explosion	Undetermined	N/K	19-Nov, 19:04
	3-5km SSE	Recorded	3	Projectile	WSW to ENE	N/K	19-Nov, 19:23
	2-4km SE	Recorded	17	Projectile	NE to SW	N/K	19-Nov, 20:26
	2-4km SE	Recorded	1	Explosion	NE to SW	N/K	19-Nov, 20:31
	2-4km SE	Recorded	4	Burst	NE to SW	N/K	19-Nov, 21:17
	2-4km SE	Recorded	9	Projectile	NE to SW	N/K	19-Nov, 21:22
	2-4km SSE	Recorded	5	Projectile	SW to NE	N/K	19-Nov, 22:19
	2-4km SSE	Recorded	1	Projectile	SW to NE	N/K	19-Nov, 22:23
	2-4km SSE	Recorded	2	Projectile	SW to NE	N/K	19-Nov, 22:24
	2-4km SSE	Recorded	1	Projectile	NE to SW	N/K	19-Nov, 22:26
	2-4km SSE	Recorded	2	Projectile	SW to NE	N/K	19-Nov, 22:26
	2-4km SE	Recorded	6	Projectile	NE to SW	N/K	19-Nov, 22:27
	2-4km SE	Recorded	10	Projectile	NE to SW	N/K	19-Nov, 22:30
	2-4km SE	Recorded	2	Projectile	NE to SW	N/K	19-Nov, 22:41
	2-4km SE	Recorded	1	Projectile	NE to SW	N/K	20-Nov, 01:39
2-4km SE	Recorded	1	Projectile	NE to SW	N/K	20-Nov, 01:40	
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	1-3km SSW	Recorded	2	Projectile	NW to SE	N/K	19-Nov, 19:01
	1-3km SSW	Recorded	4	Projectile	NW to SE	N/K	19-Nov, 19:03
	1-3km SSW	Recorded	1	Projectile	NW to SE	N/K	19-Nov, 19:06
	1-3km SSW	Recorded	4	Projectile	NW to SE	N/K	19-Nov, 19:12
	2-4km SSW	Recorded	1	Projectile	NW to SE	N/K	19-Nov, 21:16
	2-4km S	Recorded	2	Explosion	E to W	N/K	19-Nov, 21:24
	0.5-1km S	Recorded	1	Explosion	Impact	N/K	19-Nov, 21:36
	2-4km SSW	Recorded	3	Projectile	NW to SE	N/K	19-Nov, 21:42
	2-4km SSW	Recorded	1	Projectile	NW to SE	N/K	19-Nov, 21:43
	2-4km SSW	Recorded	1	Projectile	S to N	N/K	19-Nov, 21:46
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	19-Nov, 21:46
	2-4km SSW	Recorded	1	Projectile	NNW to SSE	N/K	19-Nov, 21:54
	2-4km S	Recorded	2	Muzzle flash		N/K	19-Nov, 22:02
	2-4km SSW	Recorded	2	Explosion	Undetermined	N/K	19-Nov, 22:02
	2-4km S	Recorded	2	Projectile	NW to SE	N/K	19-Nov, 22:03
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	19-Nov, 22:04
	1-4km S	Recorded	1	Projectile	NW to SE	N/K	19-Nov, 22:06
	0.5-1km S	Recorded	2	Projectile	SE to NW	N/K	19-Nov, 22:39
	2-4km SSW	Recorded	1	Projectile	NNW to SSE	N/K	19-Nov, 23:13
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	19-Nov, 23:18
	2-4km S	Recorded	1	Projectile	SE to NW	N/K	19-Nov, 23:36
	2-4km S	Recorded	1	Illumination flare	In vertical flight	N/K	19-Nov, 23:45
	2-4km SSE	Recorded	1	Illumination flare	In vertical flight	N/K	19-Nov, 23:49
	2-4km S	Recorded	1	Illumination flare	In vertical flight	N/K	19-Nov, 23:59
	2-4km S	Recorded	1	Illumination flare	In vertical flight	N/K	20-Nov, 00:09
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	20-Nov, 01:30
	2-4km SSW	Recorded	1	Projectile	NW to SE	N/K	20-Nov, 02:15

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.

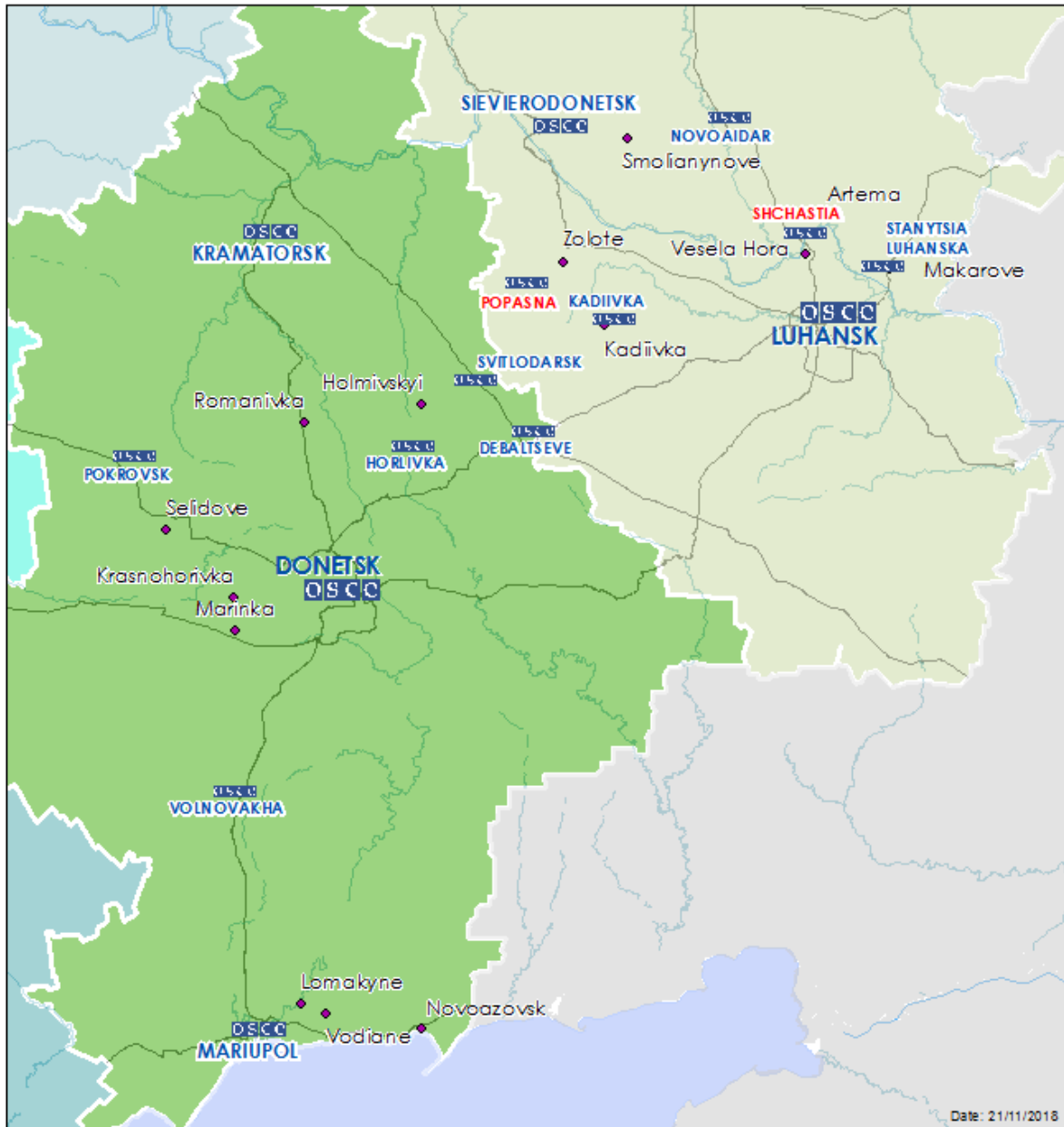
	2-4km SSW	Recorded	5	Projectile	NW to SE	N/K	20-Nov, 02:35
	2-4km S	Recorded	1	Explosion	Undetermined	N/K	20-Nov, 02:35
	2-4km SSW	Recorded	2	Explosion	Undetermined	N/K	20-Nov, 02:36
	2-4km SSW	Recorded	1	Projectile	NW to SE	N/K	20-Nov, 02:37
	2-4km S	Recorded	1	Projectile	SE to NW	N/K	20-Nov, 03:19
	2-4km SSW	Recorded	2	Projectile	NW to SE	N/K	20-Nov, 03:26
	2-4km S	Recorded	1	Projectile	SE to NW	N/K	20-Nov, 04:34
	0.5-1km S	Recorded	1	Explosion	Impact	N/K	20-Nov, 17:18
0.5-1km S	Recorded	8	Projectile	E to W	N/K	20-Nov, 17:18	
SMM camera E of Lomakyne (government-controlled, 15km NE of Mariupol)	2-4km NE	Recorded	1	Projectile	SW to NE	N/K	19-Nov, 16:46
	2-4km NE	Recorded	2	Projectile	SW to NE	N/K	19-Nov, 16:47
	3-5km NE	Recorded	1	Explosion	Undetermined	N/K	19-Nov, 18:33
	3-5km NE	Recorded	1	Projectile	NW to SE	N/K	19-Nov, 18:40
	3-5km NE	Recorded	1	Projectile	NW to SE	N/K	19-Nov, 19:33
	3-5km NE	Recorded	3	Explosion	Undetermined	N/K	19-Nov, 19:33
	3-5km NE	Recorded	4	Explosion	Undetermined	N/K	19-Nov, 19:44
	2-4km ENE	Recorded	2	Explosion	Undetermined	N/K	19-Nov, 21:16
2-4km ENE	Recorded	3	Projectile	In vertical flight	N/K	19-Nov, 21:17	
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	1-3km E	Recorded	1	Projectile	In vertical flight	N/K	19-Nov, 18:30
	1-3km E	Recorded	3	Projectile	In vertical flight	N/K	19-Nov, 18:31
	1-3km E	Recorded	4	Projectile	S to N	N/K	19-Nov, 18:48
	1-3km E	Recorded	5	Projectile	S to N	N/K	19-Nov, 18:49
	1-3km E	Recorded	14	Projectile	SW to NE	N/K	19-Nov, 18:49
	1-3km E	Recorded	2	Projectile	SW to NE	N/K	19-Nov, 19:06
	1-3km E	Recorded	3	Explosion	Undetermined	N/K	19-Nov, 19:06
	1-3km E	Recorded	1	Explosion	Undetermined	N/K	19-Nov, 19:21
	1-3km E	Recorded	13	Projectile	SW to NE	N/K	19-Nov, 19:21
	1-3km E	Recorded	2	Projectile	N to S	N/K	19-Nov, 19:21
	1-2km E	Recorded	3	Projectile	N to S	N/K	19-Nov, 21:42
	1-2km ENE	Recorded	1	Projectile	N to S	N/K	19-Nov, 22:11
	1-2km ENE	Recorded	6	Projectile	N to S	N/K	19-Nov, 22:16
	0.5-1km ENE	Recorded	1	Explosion	Impact	N/K	19-Nov, 22:30
	1-2km E	Recorded	2	Projectile	N to S	N/K	19-Nov, 22:40
	1-2km E	Recorded	1	Projectile	N to S	N/K	19-Nov, 22:48
	1-2km E	Recorded	3	Projectile	N to S	N/K	20-Nov, 00:28
	1-2km E	Recorded	1	Projectile	N to S	N/K	20-Nov, 00:32
	1-2km E	Recorded	1	Projectile	N to S	N/K	20-Nov, 00:34
	1-2km E	Recorded	1	Projectile	S to N	N/K	20-Nov, 00:34
	1-2km E	Recorded	1	Projectile	N to S	N/K	20-Nov, 00:40
	1-2km E	Recorded	6	Projectile	S to N	N/K	20-Nov, 00:41
	1-2km E	Recorded	4	Projectile	S to N	N/K	20-Nov, 00:42
	1-2km E	Recorded	1	Projectile	S to N	N/K	20-Nov, 00:43
	1-2km E	Recorded	11	Projectile	N to S	N/K	20-Nov, 00:45
	1-2km E	Recorded	1	Projectile	NW to SE	N/K	20-Nov, 00:47
	1-2km E	Recorded	1	Projectile	In vertical flight	N/K	20-Nov, 00:50
	1-2km E	Recorded	1	Explosion	Undetermined	N/K	20-Nov, 00:52
	1-2km E	Recorded	1	Projectile	S to N	N/K	20-Nov, 00:58
	1-2km E	Recorded	2	Projectile	S to N	N/K	20-Nov, 01:00
1-2km E	Recorded	8	Projectile	N to S	N/K	20-Nov, 01:10	
1-2km E	Recorded	5	Projectile	N to S	N/K	20-Nov, 01:14	
SMM camera at Oktiabr mine (non-government-controlled, 9km NW of Donetsk city centre)	2-4km NE	Recorded	5	Muzzle flash		N/K	19-Nov, 20:49
	2-4km NE	Recorded	9	Muzzle flash		N/K	19-Nov, 21:30
	2-4km NE	Recorded	5	Muzzle flash		N/K	19-Nov, 21:31
	2-4km NE	Recorded	1	Explosion	Undetermined	N/K	19-Nov, 21:46
	2-4km NE	Recorded	3	Projectile	W to E	N/K	20-Nov, 16:40
SMM camera at entry-exit checkpoint in Pyshevyk (government-	2-4km S	Recorded	2	Explosion	Undetermined	N/K	19-Nov, 19:24
	2-4km SSE	Recorded	3	Projectile	W to E	N/K	19-Nov, 20:32
	2-4km SSE	Recorded	7	Projectile	W to E	N/K	19-Nov, 20:33
	2-4km SSE	Recorded	6	Projectile	W to E	N/K	20-Nov, 01:00

controlled, 25km NE of Mariupol)	2-4km SSE	Recorded	3	Projectile	W to E	N/K	20-Nov, 01:38
4km NW of Kalynivka (non-government-controlled, 55km NE of Donetsk)	2-3km NE	Heard	8	Burst		HMG	20-Nov, 10:26
1km NNW of entry-exit checkpoint in Pyshchevyk (government-controlled, 25km NE of Mariupol)	2-3km NE	Heard	4	Burst		Small arms	20-Nov, 10:00-10:25
	N/K NE	Heard	4	Explosion	Undetermined	N/K	20-Nov, 10:00-10:25
	N/K NE	Heard	1	Explosion	Undetermined	N/K	20-Nov, 10:45
Pavlopil (government-controlled, 23km NE of Mariupol)	1km NE	Heard	15	Shot		Small arms	20-Nov, 12:00-12:12
	2-3km E	Heard	1	Explosion	Undetermined	N/K	20-Nov, 12:00-12:12
	1-2km E	Heard	10	Burst		HMG	20-Nov, 12:00-12:12
	1km NE	Heard	20	Shot		Small arms	20-Nov, 12:20-12:27
	1-2km E	Heard	10	Burst		HMG	20-Nov, 12:20-12:27
Svitlodarsk (government-controlled, 57km NE of Donetsk)	2-5km ESE	Heard	4	Burst		HMG	19-Nov, 18:40
	2-5km ESE	Heard	3	Burst		HMG	19-Nov, 18:53
	2-5km ESE	Heard	7	Shot		Small arms	19-Nov, 19:03
	3-6km ESE	Heard	1	Explosion	Undetermined	N/K	19-Nov, 19:06
	2-5km ESE	Heard	5	Shot		Small arms	19-Nov, 19:06
	2-5km ESE	Heard	3	Burst		HMG	19-Nov, 19:11
	6-8km ESE	Heard	1	Explosion	Undetermined	N/K	19-Nov, 19:23
	6-8km ESE	Heard	3	Explosion	Undetermined	N/K	19-Nov, 19:27
	3-6km E	Heard	6	Explosion	Undetermined	N/K	19-Nov, 20:08-20:10
	2-5km E	Heard	14	Burst		HMG	19-Nov, 20:08-20:12
	2-5km SE	Heard	6	Burst		HMG	19-Nov, 20:19
	2-5km SE	Heard	2	Burst		Small arms	19-Nov, 21:16
	2-5km SE	Heard	8	Shot		Small arms	19-Nov, 21:20
	2-5km SE	Heard	5	Shot		Small arms	19-Nov, 21:27
	2-5km SE	Heard	2	Burst		Small arms	19-Nov, 21:30
	2-5km SE	Heard	6	Shot		Small arms	19-Nov, 21:35
	3-5km SE	Heard	2	Explosion	Undetermined	N/K	19-Nov, 21:40
	6-8km ESE	Heard	1	Explosion	Undetermined	N/K	19-Nov, 21:48
	2-5km SE	Heard	4	Burst		Small arms	19-Nov, 21:51
	2-5km SE	Heard	6	Burst		Small arms	19-Nov, 21:56
	6-8km ESE	Heard	2	Explosion	Undetermined	N/K	19-Nov, 22:01
	2-5km SE	Heard	10	Shot		Small arms	19-Nov, 22:14
	2-5km SE	Heard	7	Burst		Small arms	19-Nov, 22:34
2-5km SE	Heard	4	Burst		Small arms	19-Nov, 22:41	
2-5km SE	Heard	7	Burst		Small arms	19-Nov, 22:50	

	2-5km SE	Heard	5	Burst		Small arms	19-Nov, 22:52
	2-5km ESE	Heard	6	Burst		Small arms	19-Nov, 22:55
	2-5km ESE	Heard	7	Burst		HMG	19-Nov, 22:57
	2-5km SE	Heard	17	Shot		Small arms	19-Nov, 23:00
	2-5km SE	Heard	15	Burst		Small arms	19-Nov, 23:02
	2-5km SE	Heard	10	Shot		Small arms	19-Nov, 23:04
	2-5km SE	Heard	1	Explosion	Undetermined	N/K	19-Nov, 23:08
	2-5km SE	Heard	6	Burst		Small arms	19-Nov, 23:20
	2-5km SE	Heard	5	Shot		Small arms	19-Nov, 23:24
	2-5km SE	Heard	1	Explosion	Undetermined	N/K	19-Nov, 23:33
SW edge of Novoluhanske (government-controlled, 53km NE of Donetsk)	2-3km W	Heard	1	Explosion	Undetermined	N/K	20-Nov, 10:05
	5-8km W	Heard	1	Explosion	Undetermined	N/K	20-Nov, 10:13
	2-3km SSE	Heard	31	Shot		Small arms	20-Nov, 10:17-10:20
	2-3km SSE	Heard	2	Burst		Small arms	20-Nov, 10:17-10:20
	2-3km SSE	Heard	2	Explosion	Undetermined	N/K	20-Nov, 10:17-10:20
	1-2km S	Heard	1	Burst		HMG	20-Nov, 12:43
Holmivskiyi (non-government-controlled, 49km NE of Donetsk)	2-3km NE	Heard	1	Burst		Small arms	20-Nov, 12:44
	2-3km NE	Heard	3	Burst		Small arms	20-Nov, 13:17
E edge of Kamianka (government-controlled, 20km N of Donetsk)	2-3km SE	Heard	15	Shot		Small arms	20-Nov, 13:30
	2-3km SE	Heard	3	Shot		Small arms	20-Nov, 13:37
Kadiivka (formerly Stakhanov, non-government-controlled, 50km W of Luhansk)	10-12km W	Heard	8	Shot		N/K	19-Nov, 19:52-19:54
	10-12km W	Heard	6	Burst		N/K	19-Nov, 20:10-20:12
	10-15km NW	Heard	11	Explosion	Undetermined	N/K	19-Nov, 20:34-20:41
	10-15km NW	Heard	3	Explosion	Undetermined	N/K	19-Nov, 20:50-21:01
E edge of Stanytsia Luhanska (government-controlled, 16km NE of Luhansk)	10-15km WSW	Heard	12	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	19-Nov, 21:15-21:20
	10-15km WSW	Heard	7	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	19-Nov, 21:45-21:50
S edge of the disengagement area near Zolote (58km W of Luhansk)	1-2km NNW	Heard	8	Shot	Assessed as inside the disengagement area	Small arms	20-Nov, 10:22-10:27
2km W of Orikhove-Donetske (government-	5-7km SE	Heard	1	Explosion	Undetermined	N/K	20-Nov, 11:39

controlled, 44km NW of Luhansk)							
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Map of Donetsk and Luhansk regions²



² 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).