

**Table of ceasefire violations as of 15 November 2018<sup>1</sup>**

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	WSW to ENE	N/K	14-Nov, 19:36
	2-4km SSE	Recorded	2	Explosion	Undetermined	N/K	14-Nov, 20:56
	2-4km SSE	Recorded	9	Projectile	SW to NE	N/K	15-Nov, 00:15
	2-4km SSE	Recorded	4	Projectile	SW to NE	N/K	15-Nov, 02:17
	2-4km SSE	Recorded	6	Projectile	SW to NE	N/K	15-Nov, 02:18
	2-4km SSE	Recorded	7	Projectile	SW to NE	N/K	15-Nov, 02:19
	2-4km SSE	Recorded	7	Projectile	SW to NE	N/K	15-Nov, 02:20
	2-4km SSE	Recorded	5	Projectile	SW to NE	N/K	15-Nov, 02:21
SMM camera in Berezove (government-controlled, 31km SW of Donetsk)	1-3km SE	Recorded	1	Explosion	Undetermined	N/K	15-Nov, 03:12
	1-3km SE	Recorded	1	Projectile	N to S	N/K	15-Nov, 16:21
	1-3km SE	Recorded	1	Projectile	W to E	N/K	15-Nov, 16:21
	1-3km SE	Recorded	1	Projectile	SW to NE	N/K	15-Nov, 17:23
	1-3km SE	Recorded	1	Projectile	SW to NE	N/K	15-Nov, 17:24
	1-3km SE	Recorded	1	Muzzle flash		N/K	15-Nov, 17:24
	1-3km SE	Recorded	1	Projectile	SW to NE	N/K	15-Nov, 18:01
	1-3km SE	Recorded	2	Projectile	SW to NE	N/K	15-Nov, 18:02
	1-3km SE	Recorded	3	Projectile	SW to NE	N/K	15-Nov, 18:07
SMM camera in Chermalyk (government-controlled, 31km NE of Mariupol)	3-4km SSE	Recorded	2	Projectile	WSW to ENE	N/K	14-Nov, 19:07
	3-4km SSE	Recorded	3	Projectile	WSW to ENE	N/K	14-Nov, 19:12
	3-4km SSE	Recorded	1	Projectile	NNE to SSW	N/K	14-Nov, 19:18
	2-4km SSE	Recorded	8	Projectile	WSW to ENE	N/K	14-Nov, 20:18
	2-4km SSE	Recorded	6	Projectile	ENE to WSW	N/K	14-Nov, 20:43
	2-4km SSE	Recorded	3	Projectile	WSW to ENE	N/K	14-Nov, 20:48
	2-4km SSE	Recorded	3	Projectile	WSW to ENE	N/K	15-Nov, 02:22
	2-4km SSE	Recorded	2	Projectile	WSW to ENE	N/K	15-Nov, 02:27
	1-3km SE	Recorded	1	Projectile	ENE to WSW	N/K	15-Nov, 02:29
	2-4km SSE	Recorded	5	Projectile	ENE to WSW	N/K	15-Nov, 03:00
	2-4km SSE	Recorded	2	Explosion	Airburst	N/K	15-Nov, 03:01
	2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	15-Nov, 03:01
	2-4km SSE	Recorded	4	Projectile	ENE to WSW	N/K	15-Nov, 03:17
	2-4km S	Recorded	1	Illumination flare	In vertical flight	N/K	14-Nov, 22:03
	3-5km SSE	Recorded	1	Projectile	WSW to ENE	N/K	15-Nov, 16:26
	3-5km SSE	Recorded	1	Muzzle flash	Also recorded by the Lomakyne camera	N/K	15-Nov, 17:08
	3-5km SE	Recorded	35	Projectile	ENE to WSW	N/K	15-Nov, 17:10
	3-5km SSE	Recorded	3	Projectile	WSW to ENE	N/K	15-Nov, 17:10
	3-5km SSE	Recorded	1	Projectile	NNE to SSW	N/K	15-Nov, 17:11
	3-5km SSE	Recorded	1	Projectile	WSW to ENE	N/K	15-Nov, 17:11
	3-5km SE	Recorded	2	Explosion	Undetermined	N/K	15-Nov, 17:11
	3-5km SSE	Recorded	1	Projectile	NNW to SSE	N/K	15-Nov, 17:20
	3-5km SE	Recorded	1	Projectile	NNE to SSW	N/K	15-Nov, 17:34
	3-5km SE	Recorded	2	Projectile	NNE to SSW	N/K	15-Nov, 17:37
	3-5km SE	Recorded	3	Projectile	NE to SW	N/K	15-Nov, 17:39
	3-5km S	Recorded	1	Projectile	WSW to ENE	N/K	15-Nov, 17:42
	3-5km SSE	Recorded	2	Projectile	WSW to ENE	N/K	15-Nov, 17:43
	3-5km SSE	Recorded	1	Projectile	WSW to ENE	N/K	15-Nov, 17:44
	3-5km SSE	Recorded	1	Projectile	WSW to ENE	N/K	15-Nov, 17:45
	3-5km SE	Recorded	3	Projectile	NE to SW	N/K	15-Nov, 17:54
3-5km SE	Recorded	1	Projectile	NE to SW	N/K	15-Nov, 17:55	

<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.

	3-5km SE	Recorded	1	Projectile	ENE to WSW	N/K	15-Nov, 17:56
	3-5km SE	Recorded	1	Projectile	W to E	N/K	15-Nov, 17:57
	3-5km SSE	Recorded	1	Projectile	WSW to ENE	N/K	15-Nov, 18:16
	3-5km SSE	Recorded	3	Projectile	WSW to ENE	N/K	15-Nov, 18:17
	3-5km SSE	Recorded	1	Projectile	WSW to ENE	N/K	15-Nov, 18:19
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	2-3km SSW	Recorded	2	Projectile	NW to SE	N/K	14-Nov, 18:47
	2-3km SSW	Recorded	2	Explosion	Undetermined	N/K	14-Nov, 19:00
	0.5-1km SSE	Recorded	1	Explosion	Impact	N/K	14-Nov, 21:19
	0.5-1km SSE	Recorded	1	Explosion	Impact	N/K	14-Nov, 21:50
	2-4km SSE	Recorded	2	Illumination flare	In vertical flight	N/K	14-Nov, 21:50
	0.5-1km S	Recorded	1	Explosion	Undetermined	N/K	14-Nov, 22:20
	0.5-1km S	Recorded	2	Explosion	Undetermined	N/K	14-Nov, 22:21
	0.5-1km S	Recorded	2	Explosion	Undetermined	N/K	14-Nov, 22:22
	1-3km SSW	Recorded	1	Projectile	NW to SE	N/K	14-Nov, 22:22
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	14-Nov, 23:30
	0.5-1km SSE	Recorded	1	Explosion	Impact	N/K	14-Nov, 23:34
	2-4km SSW	Recorded	3	Projectile	W to E	N/K	15-Nov, 00:55
	0.5-1km S	Recorded	1	Projectile	W to E	N/K	15-Nov, 03:06
	0.5-1km S	Recorded	10	Projectile	W to E	N/K	15-Nov, 04:16
	0.5-1km S	Recorded	2	Muzzle flash		N/K	15-Nov, 04:37
	2-4km SSW	Recorded	1	Projectile	W to E	N/K	15-Nov, 04:38
	2-4km SSW	Recorded	4	Projectile	W to E	N/K	15-Nov, 05:15
	0.5-1km S	Recorded	3	Muzzle flash		N/K	15-Nov, 05:16
	0.5-1km SSW	Recorded	1	Explosion	Undetermined	N/K	15-Nov, 05:16
	0.5-1km S	Recorded	1	Muzzle flash		N/K	15-Nov, 05:19
1-3km SSW	Recorded	1	Projectile	NW to SE	N/K	15-Nov, 18:07	
SMM camera 1.5km NE of Hnutove (government-controlled, 20km NE of Mariupol)	2-4km E	Recorded	6	Projectile	N to S	N/K	14-Nov, 18:43
	2-4km E	Recorded	1	Explosion	Impact	N/K	14-Nov, 18:43
	2-4km SE	Recorded	1	Projectile	SW to NE	N/K	14-Nov, 18:44
	2-4km ENE	Recorded	1	Explosion	Impact	N/K	14-Nov, 19:07
	2-4km ENE	Recorded	3	Projectile	NW to SE	N/K	14-Nov, 19:07
	2-4km E	Recorded	1	Projectile	S to N	N/K	14-Nov, 19:18
	2-4km E	Recorded	4	Projectile	S to N	N/K	14-Nov, 21:07
	2-4km E	Recorded	5	Projectile	S to N	N/K	14-Nov, 21:15
	2-4km E	Recorded	1	Projectile	In vertical flight	N/K	14-Nov, 21:15
	2-4km E	Recorded	1	Explosion	Undetermined	N/K	14-Nov, 21:15
	2-4km E	Recorded	1	Projectile	S to N	N/K	14-Nov, 21:16
	2-4km E	Recorded	1	Projectile	N to S	N/K	14-Nov, 21:34
	2-4km ESE	Recorded	1	Projectile	S to N	N/K	14-Nov, 21:41
	2-4km ESE	Recorded	2	Projectile	N to S	N/K	14-Nov, 21:41
	2-4km ESE	Recorded	1	Projectile	S to N	N/K	14-Nov, 21:42
	2-4km ESE	Recorded	2	Projectile	S to N	N/K	14-Nov, 21:43
	2-4km ESE	Recorded	1	Projectile	S to N	N/K	14-Nov, 21:51
	2-4km ESE	Recorded	2	Projectile	S to N	N/K	14-Nov, 21:56
	2-4km ESE	Recorded	2	Projectile	S to N	N/K	14-Nov, 22:06
	2-4km ENE	Recorded	7	Projectile	N to S	N/K	14-Nov, 22:19
	2-4km ENE	Recorded	1	Explosion	Undetermined	N/K	14-Nov, 22:19
	2-4km ESE	Recorded	3	Projectile	S to N	N/K	14-Nov, 22:20
	2-4km ESE	Recorded	3	Projectile	N to S	N/K	14-Nov, 22:28
	2-4km ENE	Recorded	1	Projectile	S to N	N/K	14-Nov, 23:29
	2-4km ENE	Recorded	1	Projectile	N to S	N/K	14-Nov, 23:29
	2-4km ENE	Recorded	4	Projectile	N to S	N/K	14-Nov, 23:30
	2-4km ESE	Recorded	4	Projectile	S to N	N/K	14-Nov, 23:35
	2-4km E	Recorded	12	Projectile	S to N	N/K	15-Nov, 00:13
	2-4km ENE	Recorded	3	Projectile	S to N	N/K	15-Nov, 00:15
	2-4km ENE	Recorded	9	Projectile	N to S	N/K	15-Nov, 00:15
	2-4km ESE	Recorded	1	Projectile	S to N	N/K	15-Nov, 00:17
	2-4km ENE	Recorded	1	Projectile	N to S	N/K	15-Nov, 00:18
2-4km ESE	Recorded	2	Projectile	S to N	N/K	15-Nov, 00:57	
2-4km ENE	Recorded	2	Projectile	N to S	N/K	15-Nov, 01:10	
2-4km E	Recorded	2	Projectile	N to S	N/K	15-Nov, 01:14	

	2-4km ESE	Recorded	1	Explosion	Undetermined	N/K	15-Nov, 01:42
	2-4km E	Recorded	3	Projectile	S to N	N/K	15-Nov, 01:43
	2-4km E	Recorded	2	Projectile	S to N	N/K	15-Nov, 01:44
	2-4km E	Recorded	4	Projectile	S to N	N/K	15-Nov, 01:45
	2-4km E	Recorded	2	Explosion	Undetermined	N/K	15-Nov, 01:45
	2-4km ENE	Recorded	2	Projectile	N to S	N/K	15-Nov, 01:46
	2-4km ESE	Recorded	4	Projectile	N to S	N/K	15-Nov, 01:52
	2-4km E	Recorded	1	Projectile	S to N	N/K	15-Nov, 02:15
	2-4km E	Recorded	1	Projectile	S to N	N/K	15-Nov, 02:20
	2-4km E	Recorded	2	Projectile	S to N	N/K	15-Nov, 02:22
	2-4km ENE	Recorded	1	Projectile	N to S	N/K	15-Nov, 02:26
	2-4km E	Recorded	2	Projectile	S to N	N/K	15-Nov, 02:31
	2-4km E	Recorded	1	Muzzle flash		N/K	15-Nov, 02:31
	2-4km ENE	Recorded	1	Projectile	N to S	N/K	15-Nov, 04:21
	2-4km ENE	Recorded	5	Projectile	N to S	N/K	15-Nov, 04:35
	2-4km E	Recorded	3	Projectile	N to S	N/K	15-Nov, 17:21
	2-4km ENE	Recorded	3	Projectile	N to S	N/K	15-Nov, 17:28
	2-4km E	Recorded	3	Projectile	N to S	N/K	15-Nov, 18:05
	2-4km ENE	Recorded	3	Projectile	N to S	N/K	15-Nov, 18:24
SMM camera in Hranitne (government-controlled, 60km S of Donetsk)	2-4km ESE	Recorded	1	Projectile	SE to NW	N/K	14-Nov, 23:05
SMM camera E of Lomakyne (government-controlled, 15km NE of Mariupol)	2-4km NE	Recorded	2	Projectile	W to E	N/K	14-Nov, 19:07
	2-4km NE	Recorded	1	Explosion	Undetermined	N/K	14-Nov, 19:07
	2-4km NE	Recorded	1	Explosion	Undetermined	N/K	14-Nov, 19:07
	2-4km NE	Recorded	1	Muzzle flash		N/K	14-Nov, 19:07
	2-4km NE	Recorded	1	Projectile	S to N	N/K	14-Nov, 19:18
	2-4km NE	Recorded	1	Muzzle flash		N/K	14-Nov, 19:18
	2-4km NE	Recorded	4	Projectile	W to E	N/K	14-Nov, 19:19
	2-4km NE	Recorded	1	Projectile	SW to NE	N/K	14-Nov, 19:19
	2-4km NE	Recorded	1	Illumination flare	In vertical flight, also recorded by the Chermalyk camera	N/K	15-Nov, 17:08
	2-4km NE	Recorded	2	Projectile	W to E	N/K	15-Nov, 18:15
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	3-4km E	Recorded	1	Projectile	S to N	N/K	14-Nov, 19:18
	3-4km ESE	Recorded	1	Explosion	Undetermined	N/K	14-Nov, 19:18
	3-4km E	Recorded	3	Explosion	Undetermined	N/K	14-Nov, 19:31
	2-3km E	Recorded	1	Projectile	S to N	N/K	14-Nov, 19:51
	2-3km E	Recorded	1	Explosion	Undetermined	N/K	14-Nov, 19:51
	2-4km E	Recorded	9	Projectile	N to S	N/K	14-Nov, 20:26
	2-4km E	Recorded	1	Projectile	N to S	N/K	14-Nov, 20:27
	2-4km E	Recorded	4	Projectile	N to S	N/K	14-Nov, 20:28
	2-4km ESE	Recorded	1	Explosion	Undetermined	N/K	14-Nov, 20:44
	1-2km ESE	Recorded	3	Projectile	SSE to NNW	N/K	14-Nov, 20:49
	0.2-1km ESE	Recorded	1	Projectile	SE to NW	N/K	14-Nov, 20:50
	300-500m ENE	Recorded	1	Explosion	Undetermined	N/K	14-Nov, 20:51
	0.3-1km ESE	Recorded	2	Projectile	SE to NW	N/K	14-Nov, 20:51
	1-2km ESE	Recorded	1	Projectile	SSE to NNW	N/K	14-Nov, 20:56
	0.5-1km ESE	Recorded	1	Muzzle flash		N/K	14-Nov, 20:58
	0.5-1km ESE	Recorded	1	Projectile	SE to NW	N/K	14-Nov, 20:58
	0.5-1km ESE	Recorded	1	Explosion	Airburst	N/K	14-Nov, 20:58
	0.1-1km ESE	Recorded	2	Projectile	SE to NW	N/K	14-Nov, 21:01
	100-300m ESE	Recorded	2	Explosion	Undetermined	N/K	14-Nov, 21:01
	1-2km ESE	Recorded	1	Projectile	S to N	N/K	14-Nov, 21:02
0.5-1km ESE	Recorded	4	Projectile	SE to NW	N/K	14-Nov, 21:02	
0.3-1km ESE	Recorded	2	Projectile	SE to NW	N/K	14-Nov, 21:04	

	100-300m ENE	Recorded	1	Explosion	Undetermined	N/K	14-Nov, 21:04
	2-4km ENE	Recorded	7	Projectile	S to N	N/K	14-Nov, 23:16
SMM camera at entry-exit checkpoint in Pyshechyk (government-controlled, 25km NE of Mariupol)	2-4km S	Recorded	6	Projectile	W to E	N/K	14-Nov, 18:55
	2-4km SSE	Recorded	1	Projectile	NNE to SSW	N/K	14-Nov, 19:13
	2-4km SSE	Recorded	3	Explosion	Undetermined	N/K	14-Nov, 19:18
	2-4km SSE	Recorded	1	Projectile	E to W	N/K	14-Nov, 19:18
	2-4km SSE	Recorded	1	Burst	W to E	N/K	14-Nov, 19:19
	2-4km SSE	Recorded	5	Explosion	Undetermined	N/K	14-Nov, 19:19
	2-4km SSE	Recorded	1	Muzzle flash		N/K	14-Nov, 19:38
	2-4km SSE	Recorded	3	Projectile	W to E	N/K	14-Nov, 19:38
	2-4km SSE	Recorded	3	Explosion	Undetermined	N/K	14-Nov, 19:38
	2-4km SSE	Recorded	3	Projectile	W to E	N/K	14-Nov, 19:39
	3-5km S	Recorded	1	Projectile	E to W	N/K	14-Nov, 19:44
	3-5km S	Recorded	1	Projectile	W to E	N/K	14-Nov, 19:44
	2-4km SSE	Recorded	1	Projectile	E to W	N/K	14-Nov, 20:44
	2-4km S	Recorded	1	Projectile	WNW to ESE	N/K	14-Nov, 21:37
	2-4km s	Recorded	1	Muzzle flash		N/K	14-Nov, 21:37
	2-3km SSE	Recorded	1	Projectile	W to E	N/K	14-Nov, 21:51
	2-3km SSE	Recorded	1	Projectile	W to E	N/K	14-Nov, 21:56
	2-4km SSE	Recorded	1	Illumination flare	In vertical flight	N/K	14-Nov, 22:03
	2-4km SSE	Recorded	2	Projectile	W to E	N/K	14-Nov, 22:06
	2-4km SSE	Recorded	2	Projectile	E to W	N/K	14-Nov, 22:49
	2-4km SSE	Recorded	1	Projectile	E to W	N/K	14-Nov, 22:50
	2-4km SSE	Recorded	2	Projectile	W to E	N/K	14-Nov, 22:50
	2-3km SSE	Recorded	4	Projectile	W to E	N/K	14-Nov, 23:35
	2-4km S	Recorded	1	Explosion	Undetermined	N/K	15-Nov, 16:58
	2-4km S	Recorded	2	Projectile	W to E	N/K	15-Nov, 17:00
	2-4km SSE	Recorded	1	Projectile	E to W	N/K	15-Nov, 18:05
	1-3km SSE	Recorded	2	Projectile	W to E	N/K	15-Nov, 18:15
1-3km S	Recorded	2	Muzzle flash		N/K	15-Nov, 18:17	
1-3km S	Recorded	6	Projectile	E to W	N/K	15-Nov, 18:17	
1-3km S	Recorded	1	Projectile	E to W	N/K	15-Nov, 18:18	
Oleksandrivka (non-government-controlled, 20km SW of Donetsk)	4-5km NE	Heard	7	Explosion	Undetermined	N/K	15-Nov, 09:30-09:42
	4-5km NE	Heard	9	Explosion	Undetermined	N/K	15-Nov, 09:46-10:03
	3-5km NE	Heard	24	Explosion	Undetermined	N/K	15-Nov, 10:08-10:24
	4-5km NE	Heard	16	Explosion	Undetermined	N/K	15-Nov, 10:24-10:40
	4-5km NE	Heard	6	Explosion	Undetermined	N/K	15-Nov, 10:45-11:00
	4-5km NE	Heard	6	Explosion	Undetermined	N/K	15-Nov, 11:06-11:20
	4-5km NE	Heard	4	Explosion	Undetermined	N/K	15-Nov, 11:20-11:25
Staromykhailivka (non-government-controlled, 15km W of Donetsk)	2-4km SW	Heard	1	Explosion	Undetermined	N/K	15-Nov, 14:10
	2-4km SW	Heard	1	Explosion	Undetermined	N/K	15-Nov, 14:35
1.1km NW of the railway station in Yasnuvata (non-government-controlled, 16km NE of Donetsk)	4-5km SW	Heard	6	Burst		HMG	15-Nov, 10:17
	3-4km SW	Heard	1	Explosion	Undetermined	N/K	15-Nov, 14:53
	3-4km SW	Heard	1	Explosion	Undetermined	N/K	15-Nov, 14:56
Dokuchaievsk (non-government-controlled, 30km SW of Donetsk)	4-5km SSE	Heard	11	Explosion	Undetermined	N/K	15-Nov, 11:23-11:33

SE part of Avdiivka (government-controlled, 17km N of Donetsk)	1-2km SE	Heard	4	Shot		HMG	15-Nov, 12:47
	3-5km SE	Heard	2	Explosion	Undetermined	N/K	15-Nov, 13:47
	3-5km S	Heard	2	Explosion	Undetermined	N/K	15-Nov, 13:50
	3-5km S	Heard	2	Explosion	Undetermined	N/K	15-Nov, 13:55-13:57
	1km S	Heard	10	Burst		HMG	15-Nov, 13:55-13:57
2km SW of EECP Pyshevyk (government-controlled, 25km NE of Mariupol)	N/K ESE	Heard	1	Explosion	Undetermined	N/K	15-Nov, 12:14
Pyshevyk (government-controlled, 25km NE of Mariupol)	N/K SSE	Heard	2	Explosion	Undetermined	N/K	15-Nov, 13:50-14:00
Svitlodarsk (government-controlled, 57km NE of Donetsk)	1-2km SE	Heard	4	Burst		HMG	14-Nov, 18:33
	1-2km SSE	Heard	7	Burst		HMG	14-Nov, 18:43
	1-2km S	Heard	4	Burst		HMG	14-Nov, 18:45
	1-2km S	Heard	3	Burst		HMG	14-Nov, 18:56
	1-2km S	Heard	3	Burst		HMG	14-Nov, 19:03
	1-2km S	Heard	3	Explosion	Undetermined	N/K	14-Nov, 19:03
	1-2km SSE	Heard	3	Burst		HMG	14-Nov, 19:13
	N/K SSE	Heard		Shot and burst	Uncountable	HMG	14-Nov, 19:42-19:48
	1-4km SSE	Heard		Shot and burst	Uncountable	Small arms	14-Nov, 19:42-19:48
	2-4km SSE	Heard	2	Explosion	Undetermined	N/K	14-Nov, 19:43
	2-4km SSE	Heard	4	Explosion	Undetermined	N/K	14-Nov, 19:45
	1-2km SSE	Heard	16	Burst		HMG	14-Nov, 19:52
	1-2km SSE	Heard	6	Burst		HMG	14-Nov, 19:55
	1-3km SSE	Heard	1	Explosion	Undetermined	N/K	14-Nov, 20:01
	2-3km SW	Heard	4	Burst		HMG	14-Nov, 20:25
	1-2km S	Heard	4	Burst		HMG	14-Nov, 20:44
	1-2km SSW	Heard	6	Burst		HMG	14-Nov, 21:04
	1-2km S	Heard	16	Burst		HMG	14-Nov, 21:28-21:29
	1-2km SSE	Heard	6	Burst		HMG	14-Nov, 21:34
	2-3km SSW	Heard	4	Burst	Outgoing	Anti-aircraft gun (ZU-23, 23mm)	14-Nov, 21:34
	1-2km SSE	Heard	3	Burst		HMG	14-Nov, 21:39
	1-2km SSE	Heard	11	Burst		HMG	14-Nov, 21:43-21:45
	1-2km SSE	Heard	9	Burst		HMG	14-Nov, 21:58
	2-3km SSW	Heard	6	Burst	Outgoing	Anti-aircraft gun (ZU-23, 23mm)	14-Nov, 21:58
	2-3km SSE	Heard	1	Explosion	Undetermined	N/K	14-Nov, 22:15
	1-2km SE	Heard	14	Burst		HMG	14-Nov, 22:17-22:18
	1-2km SSE	Heard	7	Burst		HMG	14-Nov, 22:29
	1-2km SSE	Heard	11	Burst		HMG	14-Nov, 22:37-22:28
	1-3km SSE	Heard	2	Explosion	Undetermined	N/K	14-Nov, 22:37
	1-2km SSE	Heard	4	Burst		HMG	14-Nov, 22:40
	1-2km SSE	Heard	2	Explosion	Undetermined	N/K	14-Nov, 22:52
	1-2km SSE	Heard	4	Explosion	Undetermined	N/K	14-Nov, 23:00
1-2km SSE	Heard	6	Burst		HMG	14-Nov, 23:00	
1-2km SSE	Heard	3	Burst		HMG	14-Nov, 23:01	

	1-2km SSE	Heard	2	Explosion	Undetermined	N/K	14-Nov, 23:02
	1-2km SSE	Heard	2	Explosion	Undetermined	N/K	14-Nov, 23:03
	1-2km SSE	Heard	2	Explosion	Undetermined	N/K	14-Nov, 23:05
	1-2km SE	Heard	16	Burst		HMG	14-Nov, 23:05-23:07
	2-3km SSE	Heard	4	Explosion	Undetermined	N/K	14-Nov, 23:07
	2-3km SSE	Heard	4	Burst	Undetermined	N/K	14-Nov, 23:14
	1-2km SSE	Heard	6	Explosion		HMG	14-Nov, 23:26
	1-2km SE	Heard	5	Burst		HMG	14-Nov, 23:26
	1-2km SSE	Heard	4	Burst		HMG	14-Nov, 23:43
	1-2km SSE	Heard	6	Burst		HMG	14-Nov, 23:54
	1-3km SSE	Heard	2	Explosion	Undetermined	N/K	14-Nov, 23:54
	2-4km SSE	Heard	4	Explosion	Undetermined	N/K	15-Nov, 07:40
	2-4km SSE	Heard	7	Explosion	Undetermined	N/K	15-Nov, 07:54
	2-4km SSE	Heard	6	Burst		HMG	15-Nov, 07:57
	2-4km SSE	Heard	8	Burst		HMG	15-Nov, 16:25
	2-4km SSE	Heard	14	Explosion	Undetermined	N/K	15-Nov, 16:30
	2-4km SSE	Heard	6	Burst		HMG	15-Nov, 16:36
	2-4km SSE	Heard	13	Explosion	Undetermined	N/K	15-Nov, 16:40
	2-4km SSE	Heard	11	Burst		HMG	15-Nov, 16:50
	2-4km SSE	Heard	5	Explosion	Undetermined	N/K	15-Nov, 17:00
	2-4km SSE	Heard	3	Burst		HMG	15-Nov, 17:02
	2-4km SSE	Heard	5	Burst		HMG	15-Nov, 17:13
E edge of Kamianka (government-controlled, 20km N of Donetsk)	2km S	Heard	2	Explosion	Undetermined	N/K	15-Nov, 08:50
	3-4km S	Heard	2	Explosion	Undetermined	N/K	15-Nov, 12:47
	3-5km S	Heard	2	Explosion	Undetermined	N/K	15-Nov, 12:57
	4-6km S	Heard	1	Explosion	Undetermined	N/K	15-Nov, 13:06
	4-6km S	Heard	1	Explosion	Undetermined	N/K	15-Nov, 13:12
	4-6km S	Heard	1	Explosion	Undetermined	N/K	15-Nov, 13:31
	4-6km S	Heard	3	Burst		HMG	15-Nov, 13:35
	4-6km S	Heard	1	Explosion	Undetermined	N/K	15-Nov, 13:44
	4-6km NNE	Heard	1	Explosion	Undetermined	N/K	15-Nov, 13:51
	4-6km S	Heard	1	Explosion	Undetermined	N/K	15-Nov, 13:57
Horlivka (non-government-controlled, 39km NE of Donetsk)	4-6km S	Heard	5	Burst		HMG	15-Nov, 13:58
	4-6km SW	Heard	7	Explosion	Undetermined	N/K	15-Nov, 10:22
	6-8km SE	Heard	8	Explosion	Undetermined	N/K	15-Nov, 10:40
	6-8km SE	Heard	9	Explosion	Undetermined	N/K	15-Nov, 11:00
	6-8km SE	Heard	8	Explosion	Undetermined	N/K	15-Nov, 11:05
NW edge of Horlivka (non-government-controlled, 39km NE of Donetsk)	10-12km SE	Heard	2	Explosion	Undetermined	N/K	15-Nov, 12:45
	3-5km ENE	Heard	2	Explosion	Undetermined	N/K	15-Nov, 12:46
	4-6km WSW	Heard	1	Explosion	Undetermined	N/K	15-Nov, 13:12
	4-6km ENE	Heard	2	Explosion	Undetermined	N/K	15-Nov, 13:15
	4-6km SSW	Heard	3	Explosion	Undetermined	N/K	15-Nov, 13:42
SMM camera in Kriakivka (government-controlled, 38km NW of Luhansk)	4-6km SSW	Heard	2	Explosion	Undetermined	N/K	15-Nov, 13:46
	1-1.5km SSW	Recorded	1	Explosion	Undetermined	N/K	14-Nov, 21:18
SMM camera on N edge of Popasna (government-controlled, 69km W of Luhansk)	3-4km E	Recorded	1	Explosion	Undetermined	N/K	14-Nov, 19:32
E edge of Popasna (government-controlled, 69km W of Luhansk)	6-10km SSE	Heard	13	Explosion	Undetermined	N/K	15-Nov, 08:55-09:18
2km NW of Sentianivka (formerly Frunze, non-government-	7-10km N	Heard	10	Burst		Small arms	15-Nov, 10:35-10:50
	7-10km N	Heard	3	Explosion	Undetermined	N/K	15-Nov, 10:35-10:50

controlled, 44km W of Luhansk)							
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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).