

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

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SE part of Avdiivka (government-controlled, 17km N of Donetsk)	4-6km S	Heard	1	Explosion	Undetermined	N/K	1-Nov, 11:25
	4-6km S	Heard	1	Explosion	Undetermined	N/K	1-Nov, 11:49
	4-6km E	Heard	1	Explosion	Undetermined	N/K	1-Nov, 12:16
	2-4km SE	Heard	1	Explosion	Undetermined	N/K	1-Nov, 12:31
	2-4km SE	Heard	2	Explosion	Undetermined	N/K	1-Nov, 12:40
1.1km NW of Yasynuvata Railway station (non-government-controlled, 16km NE of Donetsk)	3-5km S	Heard	1	Explosion	Undetermined	N/K	1-Nov, 09:02
	2-4km SW	Heard	1	Explosion	Undetermined	N/K	1-Nov, 09:44
	2-3km SSW	Heard	1	Burst		HMG	1-Nov, 10:50
	2-3km SSW	Heard	1	Explosion	Undetermined	N/K	1-Nov, 10:50
	3-5km S	Heard	1	Explosion	Undetermined	N/K	1-Nov, 11:25
	4-5km S	Heard	1	Explosion	Undetermined	N/K	1-Nov, 13:02
1km NNW of Pyshchevyk (government-controlled, 25km NE of Mariupol)	1-2km NNW	Heard		Shot and burst	Uncountable overlapping	Small arms	1-Nov, 13:39-13:42
	1-1.5km SSE	Heard	1	Explosion	Undetermined	N/K	1-Nov, 11:25
2km SE of Kalynivka (government-controlled, 11km NE of Mariupol)	2-3km SE	Heard	1	Explosion	Undetermined	N/K	1-Nov, 11:33
	N/K E	Saw	1	Explosion	Impact	N/K	1-Nov, 11:25
Hranitne (government-controlled, 60km S of Donetsk)	1km E	Heard	1	Explosion	Outgoing	N/K	1-Nov, 12:02-11:25
	2km S	Heard	1	Explosion	Impact	N/K	1-Nov, 12:02-12:05
	1km S	Heard		Burst	Uncountable overlapping	Small arms	1-Nov, 12:02-12:05
	1km S	Heard		Burst	Uncountable overlapping	HMG	1-Nov, 12:02-12:05
	1-2km SE	Heard	24	Explosion	Undetermined	N/K	1-Nov, 12:06-12:17
	1km S	Heard		Burst	Uncountable overlapping	HMG	1-Nov, 12:06-12:17
	1km S	Heard		Burst	Uncountable overlapping	Small arms	1-Nov, 12:06-12:17
	1km SE	Heard		Burst	Uncountable overlapping	HMG	1-Nov, 12:06-12:17
	1km SE	Heard		Burst	Uncountable overlapping	Small arms	1-Nov, 12:06-12:17
Pavlopil (government-controlled, 26km NE of Mariupol)	500m NE	Heard	6	Burst		Small arms	1-Nov, 13:40-13:50
	500m NE	Heard	62	Shot		Small arms	1-Nov, 13:40-13:50
Horlivka (non-government-controlled, 39km NE of Donetsk)	5-6km WNW	Heard	21	Explosion	Outgoing	N/K	31-Oct, 17:50-18:07
	5-6km WNW	Heard	2	Explosion	Outgoing	N/K	31-Oct, 18:12
	5-6km WNW	Heard	2	Explosion	Undetermined	N/K	31-Oct, 18:42
	5-6km NW	Heard	7	Burst		HMG	31-Oct, 18:45

<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.

	6-7km NW	Heard	3	Explosion	Undetermined	N/K	31-Oct, 18:48
	6-7km NW	Heard	2	Explosion	Undetermined	N/K	31-Oct, 18:55
	6-7km WNW	Heard	3	Explosion	Undetermined	N/K	31-Oct, 20:51
Svitlodarsk (government- controlled, 57km NE of Donetsk)	4-6km SE	Heard	13	Shot		Small arms	31-Oct, 18:30-18:32
	4-6km SE	Heard	3	Burst		HMG	31-Oct, 18:32-18:33
	4-6km SE	Heard	3	Explosion	Undetermined	N/K	31-Oct, 18:33
	4-6km SE	Heard	9	Explosion	Outgoing	N/K	31-Oct, 18:34
	6-7km SE	Heard	1	Explosion	Undetermined	N/K	31-Oct, 18:40
	6-7km SE	Heard	1	Explosion	Undetermined	N/K	31-Oct, 18:44
	6-7km SE	Heard	2	Explosion	Undetermined	N/K	31-Oct, 19:02
	3-5km SE	Heard	7	Shot		Small arms	31-Oct, 19:04
	3-5km SE	Heard	4	Burst		HMG	31-Oct, 19:04
	3-5km SE	Heard	5	Burst		HMG	31-Oct, 19:16
	3-5km SE	Heard	4	Burst		HMG	31-Oct, 19:19
	4-6km SE	Heard	1	Explosion	Undetermined	N/K	31-Oct, 19:31
	3-5km SE	Heard	10	Burst		Small arms	31-Oct, 19:31-19:33
	4-6km S	Heard	5	Shot		Small arms	31-Oct, 19:40-19:41
	4-6km SE	Heard	1	Explosion	Undetermined	N/K	31-Oct, 19:46
	3-5km SSE	Heard	4	Explosion	Undetermined	N/K	31-Oct, 20:10-20:12
	4-6km SE	Heard	2	Explosion	Undetermined	N/K	31-Oct, 20:14
	3-5km SE	Heard	5	Burst		HMG	31-Oct, 20:20-20:21
	3-5km SE	Heard	9	Burst		Small arms	31-Oct, 20:22
	3-5km SE	Heard	2	Explosion	Undetermined	N/K	31-Oct, 20:20-20:22
	3-5km SE	Heard	37	Burst		HMG	31-Oct, 20:24-20:30
	3-5km SE	Heard	20	Explosion	Undetermined	N/K	31-Oct, 20:24-20:35
	3-5km SE	Heard	43	Shot		Small arms	31-Oct, 20:24-20:30
	3-5km SE	Heard	10	Burst		Small arms	31-Oct, 20:35
	3-5km SE	Heard	4	Explosion	Undetermined	N/K	31-Oct, 20:36-20:38
	4-6km SE	Heard	3	Explosion	Undetermined	N/K	31-Oct, 20:40
	4-6km SE	Heard	2	Explosion	Undetermined	N/K	31-Oct, 20:50
	3-5km SE	Heard	3	Burst		HMG	31-Oct, 20:54
	4-6km SE	Heard	8	Explosion	Undetermined	N/K	31-Oct, 20:58-21:04
	4-6km SE	Heard	2	Burst		HMG	31-Oct, 20:58
	4-5km SE	Heard	4	Burst		Small arms	31-Oct, 21:12
	3-5km SE	Heard	1	Burst		HMG	31-Oct, 21:13
	4-6km SE	Heard	4	Explosion	Undetermined	N/K	31-Oct, 21:18-21:21
	3-5km SE	Heard	1	Burst		HMG	31-Oct, 21:22
	3-4km SE	Heard	1	Explosion	Undetermined	N/K	31-Oct, 21:23
	5-7km SE	Heard	4	Burst		HMG	31-Oct, 21:31
	4-6km S	Heard	6	Burst		HMG	31-Oct, 21:50
	4-6km S	Heard	29	Burst		HMG	31-Oct, 21:58
	4-6km SE	Heard	37	Burst		HMG	31-Oct, 22:05-22:09
	4-6km SE	Heard	1	Explosion	Undetermined	N/K	31-Oct, 22:09
4-6km S	Heard	10	Burst		HMG	31-Oct, 22:40	
4-6km S	Heard	1	Explosion	Undetermined	N/K	31-Oct, 22:41	
4-6km SE	Heard	51	Burst		HMG	31-Oct,	

							22:44-22:49
	4-6km SE	Heard	1	Explosion	Undetermined	N/K	31-Oct, 22:44
	4-6km SE	Heard	3	Burst		Small arms	31-Oct, 22:47
	4-6km SE	Heard	71	Burst		HMG	31-Oct, 22:54-22:58
	4-6km SE	Heard	17	Shot		Small arms	31-Oct, 22:55
	4-6km SE	Heard	3	Explosion	Undetermined	N/K	31-Oct, 23:00
	4-6km SE	Heard	4	Burst		HMG	31-Oct, 23:01
	4-6km SE	Heard	4	Burst		HMG	31-Oct, 23:04
	4-6km SE	Heard	1	Explosion	Undetermined	N/K	31-Oct, 23:06
	4-6km SE	Heard	1	Explosion	Undetermined	N/K	31-Oct, 23:19
	4-6km SE	Heard	18	Shot		Small arms	31-Oct, 23:22
	4-6km SE	Heard	4	Burst		Small arms	31-Oct, 23:22
	4-6km SE	Heard	3	Burst		HMG	31-Oct, 23:22
	2-3km S	Heard	1	Explosion	Undetermined	N/K	31-Oct, 23:25
	4-6km SE	Heard	1	Explosion	Undetermined	N/K	31-Oct, 23:40
	4-6km SE	Heard	13	Burst		HMG	31-Oct, 23:42
	4-6km SE	Heard	16	Shot		Small arms	31-Oct, 23:42
	4-6km SE	Heard	8	Burst		Small arms	31-Oct, 23:47
	4-6km SE	Heard	13	Burst		Small arms	31-Oct, 23:50
	4-6km SE	Heard	4	Shot		Small arms	31-Oct, 23:56
S edge of Novoluhanske (government-controlled, 53km NE of Donetsk)	7-8km SW	Heard	2	Explosion	Undetermined	N/K	1-Nov, 10:40
2km WSW of Zalizne (government-controlled, 42km NE of Donetsk)	4-5km NNE	Heard	1	Explosion	Undetermined	N/K	1-Nov, 12:35
E edge of Kamianka (government-controlled, 20km N of Donetsk)	1-2km SE	Heard	1	Explosion	Undetermined	N/K	1-Nov, 12:17
	400-500m E	Heard	1	Explosion	Undetermined	N/K	1-Nov, 12:30
	2-3km SW	Heard	2	Explosion	Undetermined	N/K	1-Nov, 13:36
SMM camera in Avdiivka (government-controlled, 17km N of Donetsk)	2-4km ESE	Recorded	4	Projectile	NE to SW	N/K	31-Oct, 17:00
	2-4km SE	Recorded	2	Explosion	Impact	N/K	31-Oct, 17:00
	2-4km ESE	Recorded	1	Explosion	Impact	N/K	31-Oct, 17:13
	2-4km ESE	Recorded	1	Explosion	Impact	N/K	31-Oct, 17:14
SMM camera in Berezove (government-controlled, 31km SW of Donetsk)	2-4km SE	Recorded	1	Explosion	Undetermined	N/K	31-Oct, 19:27
	3-4km SE	Recorded	1	Projectile	SW to NE	N/K	31-Oct, 21:12
	3-4km SE	Recorded	2	Projectile	SW to NE	N/K	31-Oct, 22:05
	3-4km SE	Recorded	6	Projectile	SW to NE	N/K	1-Nov, 01:16
	3-4km SE	Recorded	1	Projectile	SW to NE	N/K	1-Nov, 02:17
	3-4km SE	Recorded	8	Projectile	SW to NE	N/K	1-Nov, 02:18
SMM camera in Chermalyk (government-controlled, 31km NE of Mariupol)	2-4km SSE	Recorded	5	Projectile	WSW to ENE	N/K	31-Oct, 17:08
	2-4km SSE	Recorded	1	Projectile	WSW to ENE	N/K	31-Oct, 17:43
	2-4km SE	Recorded	12	Projectile	ENE to WSW	N/K	31-Oct, 17:53
	2-4km SE	Recorded	5	Projectile	ENE to WSW	N/K	31-Oct, 17:57
	2-4km SE	Recorded	3	Projectile	WNW to ESE	N/K	31-Oct, 17:57
	2-4km SSE	Recorded	8	Projectile	ENE to WSW	N/K	31-Oct, 18:26
	2-4km S	Recorded	1	Illumination flare	In vertical flight	N/K	31-Oct, 18:50
	2-4km SSE	Recorded	6	Projectile	WSW to ENE	N/K	31-Oct, 18:55
	2-4km SSE	Recorded	4	Projectile	ENE to WSW	N/K	31-Oct, 18:55
	2-4km SSE	Recorded	6	Projectile	WSW to ENE	N/K	31-Oct, 19:01
	2-4km SSE	Recorded	1	Projectile	WSW to ENE	N/K	31-Oct, 19:13
	2-4km S	Recorded	1	Projectile	SW to NE	N/K	31-Oct, 21:50

SMM camera at Donetsk Filtration Station (15km N of Donetsk)	0.5-1km S	Recorded	1	Explosion	Impact	N/K	31-Oct, 17:13
	2-4km S	Recorded	1	Explosion	Undetermined	N/K	31-Oct, 17:13
	2-4km SSE	Recorded	2	Explosion	Undetermined	N/K	31-Oct, 17:14
	0.5-1km S	Recorded	4	Projectile	In vertical flight	N/K	31-Oct, 18:10
	0.5-1km S	Recorded	6	Projectile	SSE to NNW	N/K	31-Oct, 19:26
	1-2km S	Recorded	1	Projectile	In vertical flight	N/K	31-Oct, 19:51
	2-4km SSW	Recorded	1	Projectile	NW to SE	N/K	31-Oct, 19:51
	1-2km SSE	Recorded	2	Projectile	W to E	N/K	31-Oct, 19:52
	2-4km S	Recorded	1	Explosion	Undetermined	N/K	31-Oct, 19:52
	2-4km SSW	Recorded	2	Projectile	NW to SE	N/K	31-Oct, 19:52
	0.5-1km SSW	Recorded	1	Projectile	SSE to NNW	N/K	31-Oct, 20:07
	1-2km S	Recorded	11	Projectile	WNW to ESE	N/K	31-Oct, 20:09
	2-4km S	Recorded	8	Projectile	WNW to ESE	N/K	31-Oct, 20:10
	0.5-1km SSW	Recorded	1	Projectile	NW to SE	N/K	31-Oct, 20:13
	2-4km S	Recorded	12	Projectile	WNW to ESE	N/K	31-Oct, 20:20
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	31-Oct, 20:28
	2-4km S	Recorded	11	Projectile	WNW to ESE	N/K	31-Oct, 20:39
	2-4km SSW	Recorded	1	Projectile	NNE to SSW	N/K	31-Oct, 20:40
	2-4km SSW	Recorded	1	Projectile	NNE to SSW	N/K	31-Oct, 20:59
	4-6km SSW	Recorded	4	Explosion	Undetermined	N/K	31-Oct, 21:01
	2-4km SSW	Recorded	2	Projectile	WNW to ESE	N/K	31-Oct, 21:05
	2-4km SSW	Recorded	1	Projectile	NW to SE	N/K	31-Oct, 21:13
	2-4km SSW	Recorded	1	Projectile	NNW to SSE	N/K	31-Oct, 21:15
	2-4km SSW	Recorded	2	Projectile	NNW to SSE	N/K	31-Oct, 21:16
	2-4km SSW	Recorded	1	Projectile	NW to SE	N/K	31-Oct, 21:16
	2-4km S	Recorded	11	Projectile	NW to SE	N/K	31-Oct, 21:17
	2-4km SSW	Recorded	2	Projectile	NW to SE	N/K	31-Oct, 21:58
	2-4km SSW	Recorded	7	Projectile	NW to SE	N/K	31-Oct, 22:26
	2-4km SSW	Recorded	3	Projectile	NE to SW	N/K	31-Oct, 22:33
	2-4km S	Recorded	4	Projectile	WNW to ESE	N/K	31-Oct, 22:33
	2-4km SSW	Recorded	7	Projectile	In vertical flight	N/K	31-Oct, 22:34
	2-4km SSW	Recorded	7	Projectile	WNW to ESE	N/K	31-Oct, 22:34
	2-4km SSW	Recorded	3	Projectile	In vertical flight	N/K	31-Oct, 22:35
	2-4km SSW	Recorded	1	Projectile	WNW to ESE	N/K	31-Oct, 22:35
	2-4km S	Recorded	3	Projectile	WNW to ESE	N/K	31-Oct, 22:36
	2-4km SSW	Recorded	3	Projectile	WNW to ESE	N/K	31-Oct, 22:38
	2-4km SSW	Recorded	2	Projectile	N to S	N/K	31-Oct, 22:39
	2-4km SSW	Recorded	1	Projectile	NW to SE	N/K	31-Oct, 22:40
	2-4km SSW	Recorded	6	Projectile	NW to SE	N/K	31-Oct, 22:42
	2-4km SSW	Recorded	2	Projectile	WNW to ESE	N/K	31-Oct, 22:42
	2-4km SSW	Recorded	1	Projectile	WNW to ESE	N/K	31-Oct, 23:21
2-4km SSW	Recorded	2	Projectile	WNW to ESE	N/K	1-Nov, 00:57	
2-4km SSW	Recorded	1	Projectile	WNW to ESE	N/K	1-Nov, 02:21	
2-4km SSW	Recorded	2	Explosion	Undetermined	N/K	1-Nov, 02:21	
2-4km SSW	Recorded	1	Projectile	NW to SE	N/K	1-Nov, 03:18	
2-4km SSW	Recorded	2	Projectile	N to S	N/K	1-Nov, 05:20	
2-4km SSW	Recorded	3	Projectile	WNW to ESE	N/K	1-Nov, 05:20	
0.5-1km S	Recorded	1	Explosion	Impact	N/K	1-Nov, 06:32	
0.5-1km SSW	Recorded	1	Projectile	SE to NW	N/K	1-Nov, 17:30	
1-2km S	Recorded	1	Explosion	Undetermined	N/K	1-Nov, 17:30	
SMM camera 1.5km NE of Hnutove (government-controlled, 20km NE of Mariupol)	2-4km ESE	Recorded	5	Projectile	SW to NE	N/K	31-Oct, 18:11
	2-4km ESE	Recorded	4	Projectile	SW to NE	N/K	31-Oct, 18:12
	2-4km ESE	Recorded	6	Projectile	SW to NE	N/K	31-Oct, 18:19
	2-4km ESE	Recorded	1	Projectile	SW to NE	N/K	31-Oct, 18:21
	2-4km ESE	Recorded	1	Projectile	SW to NE	N/K	31-Oct, 18:26

	2-4km ESE	Recorded	1	Projectile	SW to NE	N/K	31-Oct, 18:27
	2-4km ESE	Recorded	1	Projectile	SW to NE	N/K	31-Oct, 18:28
	2-4km ESE	Recorded	14	Projectile	NW to SE	N/K	31-Oct, 18:29
	2-4km ESE	Recorded	3	Projectile	W to E	N/K	31-Oct, 18:30
	2-4km ESE	Recorded	1	Projectile	SW to NE	N/K	31-Oct, 18:49
	2-4km ESE	Recorded	2	Projectile	SW to NE	N/K	31-Oct, 18:50
	2-4km ESE	Recorded	1	Explosion	Impact	N/K	31-Oct, 18:50
	2-4km ESE	Recorded	2	Projectile	SW to NE	N/K	31-Oct, 18:51
	2-4km ESE	Recorded	2	Projectile	SW to NE	N/K	31-Oct, 18:52
	2-4km ESE	Recorded	1	Projectile	SW to NE	N/K	31-Oct, 18:53
	2-4km E	Recorded	4	Projectile	SW to NE	N/K	31-Oct, 18:54
	2-4km E	Recorded	21	Projectile	NW to SE	N/K	31-Oct, 18:54
	2-4km E	Recorded	9	Projectile	NW to SE	N/K	31-Oct, 18:55
	2-4km E	Recorded	2	Projectile	SW to NE	N/K	31-Oct, 18:55
	2-4km ESE	Recorded	1	Projectile	NW to SE	N/K	31-Oct, 18:56
	2-4km E	Recorded	1	Projectile	SW to NE	N/K	31-Oct, 18:56
	2-4km E	Recorded	4	Projectile	NW to SE	N/K	31-Oct, 18:56
	2-4km E	Recorded	26	Projectile	NW to SE	N/K	31-Oct, 19:00
	2-4km E	Recorded	2	Projectile	NW to SE	N/K	31-Oct, 19:04
	2-4km ESE	Recorded	1	Explosion	Undetermined	N/K	31-Oct, 19:15
	2-4km ESE	Recorded	3	Projectile	SW to NE	N/K	31-Oct, 19:16
	2-4km ESE	Recorded	1	Projectile	SW to NE	N/K	31-Oct, 19:17
	2-4km ESE	Recorded	3	Projectile	SW to NE	N/K	31-Oct, 19:18
	2-4km ESE	Recorded	1	Projectile	SW to NE	N/K	31-Oct, 19:20
	2-4km ESE	Recorded	1	Explosion	Undetermined	N/K	31-Oct, 19:20
	2-4km ESE	Recorded	1	Projectile	SW to NE	N/K	31-Oct, 19:23
	2-4km ESE	Recorded	1	Projectile	SW to NE	N/K	31-Oct, 19:39
	2-4km ESE	Recorded	2	Projectile	SW to NE	N/K	31-Oct, 19:42
	2-4km ESE	Recorded	2	Projectile	SW to NE	N/K	31-Oct, 19:43
	2-4km ESE	Recorded	1	Projectile	SW to NE	N/K	31-Oct, 19:46
	2-4km ESE	Recorded	2	Projectile	SW to NE	N/K	31-Oct, 19:47
	2-4km ESE	Recorded	1	Projectile	SW to NE	N/K	31-Oct, 19:48
	2-4km ESE	Recorded	1	Projectile	SW to NE	N/K	31-Oct, 19:50
	2-4km ESE	Recorded	2	Projectile	SW to NE	N/K	31-Oct, 19:51
	2-4km ENE	Recorded	1	Projectile	NW to SE	N/K	31-Oct, 20:12
	2-4km E	Recorded	1	Explosion	Undetermined	N/K	31-Oct, 20:12
	2-4km ESE	Recorded	3	Projectile	WSW to ENE	N/K	31-Oct, 22:31
	2-4km E	Recorded	1	Projectile	NW to SE	N/K	31-Oct, 23:46
	2-4km E	Recorded	2	Projectile	NW to SE	N/K	31-Oct, 23:47
	2-4km ESE	Recorded	3	Projectile	WSW to ENE	N/K	31-Oct, 23:47
	2-4km ESE	Recorded	2	Projectile	WSW to ENE	N/K	31-Oct, 23:55
	2-4km ESE	Recorded	9	Projectile	S to N	N/K	31-Oct, 23:55
	2-4km ESE	Recorded	5	Projectile	WSW to ENE	N/K	1-Nov, 03:23
	2-4km ESE	Recorded	1	Projectile	WSW to ENE	N/K	1-Nov, 04:01
SMM camera in Krasnohorivka (government-controlled, 21km W of Donetsk)	2-4km S	Recorded	1	Explosion	Undetermined	N/K	31-Oct, 19:37
SMM camera E of Lomakyne (government-controlled, 15km NE of Mariupol)	2-4km ENE	Recorded	1	Illumination flare	In vertical flight	N/K	31-Oct, 18:13
	2-4km ENE	Recorded	4	Muzzle flash		N/K	31-Oct, 19:36
	2-4km ENE	Recorded	5	Projectile	NW to SE	N/K	31-Oct, 19:36
	3-5km NE	Recorded	3	Projectile	NW to SE	N/K	31-Oct, 20:10
	3-5km NE	Recorded	1	Illumination flare	In vertical flight	N/K	31-Oct, 20:18
	3-5km NE	Recorded	10	Projectile	NW to SE	N/K	31-Oct, 20:20

	3-5km NE	Recorded	3	Projectile	NW to SE	N/K	31-Oct, 20:30
	3-5km NE	Recorded	16	Projectile	NW to SE	N/K	31-Oct, 20:44
	3-5km ENE	Recorded	9	Projectile	NW to SE	N/K	31-Oct, 20:46
	3-5km ENE	Recorded	1	Projectile	NW to SE	N/K	31-Oct, 21:22
	3-5km NE	Recorded	2	Projectile	SE to NW	N/K	1-Nov, 01:29
	3-5km ENE	Recorded	2	Projectile	NW to SE	N/K	1-Nov, 01:29
	3-5km NE	Recorded	3	Projectile	SW to NE	N/K	1-Nov, 02:36
	2-4km NE	Recorded	4	Projectile	ESE to WNW	N/K	1-Nov, 17:11
	2-4km NE	Recorded	2	Projectile	WNW to ESE	N/K	1-Nov, 17:28
	2-4km NE	Recorded	1	Projectile	ESE to WNW	N/K	1-Nov, 17:28
	2-4km ENE	Recorded	3	Projectile	WNW to ESE	N/K	1-Nov, 17:39
	2-4km ENE	Recorded	4	Muzzle flash		N/K	1-Nov, 17:39
	2-4km ENE	Recorded	1	Projectile	WNW to ESE	N/K	1-Nov, 17:40
	2-4km ENE	Recorded	1	Projectile	ESE to WNW	N/K	1-Nov, 17:40
	2-4km ENE	Recorded	1	Muzzle flash		N/K	1-Nov, 17:40
	2-4km NE	Recorded	6	Projectile	WNW to ESE	N/K	1-Nov, 17:41
	2-4km ENE	Recorded	2	Projectile	ESE to WNW	N/K	1-Nov, 17:41
	2-4km NE	Recorded	1	Projectile	In vertical flight	N/K	1-Nov, 17:41
	2-4km NE	Recorded	8	Projectile	WNW to ESE	N/K	1-Nov, 17:43
	2-4km NE	Recorded	2	Projectile	ESE to WNW	N/K	1-Nov, 17:43
	2-4km NE	Recorded	2	Muzzle flash		N/K	1-Nov, 17:43
	2-4km NE	Recorded	4	Projectile	WNW to ESE	N/K	1-Nov, 17:44
	2-4km NE	Recorded	3	Projectile	WNW to ESE	N/K	1-Nov, 17:48
	2-4km NE	Recorded	1	Projectile	ESE to WNW	N/K	1-Nov, 17:48
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	1-3km E	Recorded	7	Projectile	NW to SE	N/K	1-Nov, 03:22
	1-2km E	Recorded	6	Projectile	SW to NE	N/K	1-Nov, 03:25
	1-3km E	Recorded	2	Projectile	NW to SE	N/K	1-Nov, 04:08
	2-4km NNE	Recorded	18	Projectile	WSW to ENE	N/K	31-Oct, 17:37
	2-4km NNE	Recorded	1	Projectile	W to E	N/K	31-Oct, 18:19
	2-4km NNE	Recorded	1	Projectile	E to W	N/K	31-Oct, 19:32
	1-3km NNE	Recorded	2	Explosion	Undetermined	N/K	31-Oct, 20:37
SMM camera at Oktiabr mine (non-government-controlled, 9km NW of Donetsk city centre)	2-4km NE	Recorded	12	Projectile	NW to SE	N/K	31-Oct, 17:01
	2-4km NE	Recorded	9	Explosion	Impact	N/K	31-Oct, 17:01
	2-4km NE	Recorded	1	Projectile	NW to SE	N/K	31-Oct, 19:16
	4-5km NE	Recorded	1	Explosion	Undetermined	N/K	31-Oct, 23:55
	3-5km E	Recorded	1	Explosion	Undetermined	N/K	1-Nov, 13:31
SMM camera at entry-exit checkpoint in Pyshevyk (government-controlled, 25km NE of Mariupol)	2-4km SSE	Recorded	2	Projectile	E to W	N/K	31-Oct, 17:47
	2-4km SSE	Recorded	1	Muzzle flash		N/K	31-Oct, 17:47
	2-4km SSE	Recorded	1	Projectile	W to E	N/K	31-Oct, 17:59
	2-4km SSE	Recorded	2	Projectile	W to E	N/K	31-Oct, 18:12
	2-4km SSE	Recorded	2	Muzzle flash		N/K	31-Oct, 18:12
	2-4km S	Recorded	1	Illumination flare	In vertical flight	N/K	31-Oct, 18:13
	2-4km SSE	Recorded	1	Projectile	W to E	N/K	31-Oct, 18:25
	2-4km SSE	Recorded	1	Projectile	W to E	N/K	31-Oct, 18:27
	2-4km SSE	Recorded	2	Projectile	W to E	N/K	31-Oct, 18:28
	2-4km SSE	Recorded	6	Projectile	E to W	N/K	31-Oct, 18:29
	2-4km SSE	Recorded	6	Projectile	E to W	N/K	31-Oct, 18:30
	2-4km SSE	Recorded	2	Projectile	W to E	N/K	31-Oct, 18:51
	2-4km SSE	Recorded	2	Projectile	W to E	N/K	31-Oct, 18:52
	2-4km SSE	Recorded	1	Muzzle flash		N/K	31-Oct, 18:52
	2-4km SSE	Recorded	1	Muzzle flash		N/K	31-Oct, 19:07
	2-4km SSE	Recorded	5	Projectile	E to W	N/K	31-Oct, 19:14
	2-4km SSE	Recorded	4	Muzzle flash		N/K	31-Oct, 19:14
	2-4km SSE	Recorded	1	Projectile	E to W	N/K	31-Oct, 19:22
	2-4km SSE	Recorded	1	Projectile	E to W	N/K	31-Oct, 19:23

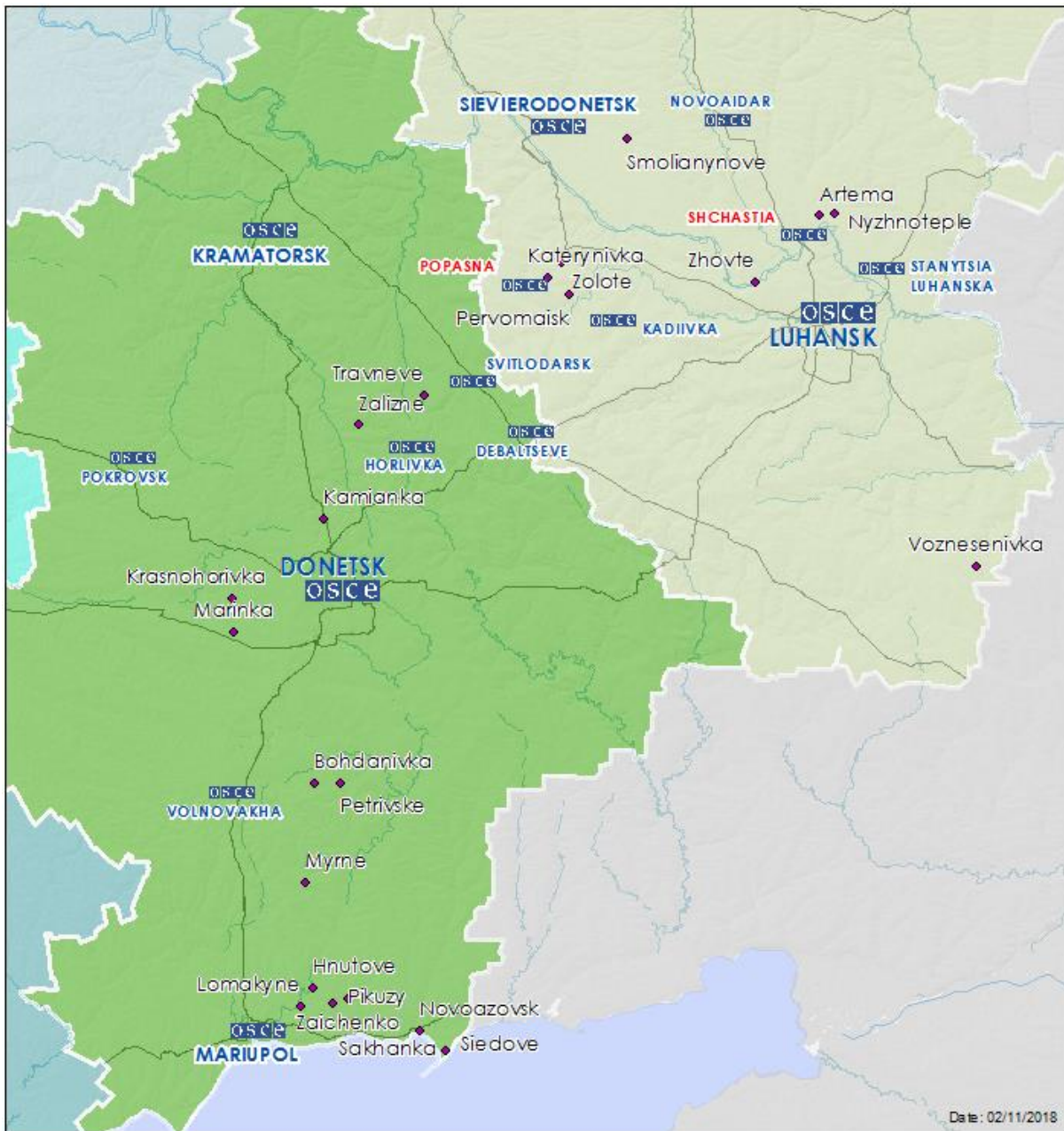
	2-4km SSE	Recorded	2	Projectile	W to E	N/K	31-Oct, 19:41
	1-2km S	Recorded	2	Projectile	W to E	N/K	31-Oct, 20:05
	1-2km S	Recorded	3	Projectile	W to E	N/K	31-Oct, 20:09
	1-2km S	Recorded	1	Projectile	W to E	N/K	31-Oct, 20:10
	1-2km S	Recorded	1	Projectile	E to W	N/K	31-Oct, 20:17
	1-2km S	Recorded	1	Projectile	W to E	N/K	31-Oct, 20:20
	1-2km S	Recorded	5	Muzzle flash		N/K	31-Oct, 20:23
	1-2km S	Recorded	1	Projectile	W to E	N/K	31-Oct, 20:23
	1-2km S	Recorded	1	Explosion	Undetermined	N/K	31-Oct, 20:44
	1-2km S	Recorded	1	Projectile	W to E	N/K	31-Oct, 20:44
	1-2km S	Recorded	6	Projectile	E to W	N/K	31-Oct, 20:46
	1-2km S	Recorded	1	Projectile	E to W	N/K	31-Oct, 20:51
	1-2km SSE	Recorded	3	Projectile	W to E	N/K	31-Oct, 20:52
	1-2km SSE	Recorded	8	Projectile	W to E	N/K	31-Oct, 20:53
	1-2km S	Recorded	2	Projectile	W to E	N/K	31-Oct, 23:47
	1-2km SSE	Recorded	2	Projectile	E to W	N/K	31-Oct, 23:55
	2-3km S	Recorded	1	Explosion	Undetermined	N/K	1-Nov, 00:43
	2-3km SW	Recorded	1	Projectile	SW to NE	N/K	1-Nov, 00:43
	4-5km S	Recorded	2	Projectile	E to W	N/K	1-Nov, 01:47
	4-5km S	Recorded	2	Muzzle flash		N/K	1-Nov, 02:35
	4-5km SE	Recorded	3	Projectile	E to W	N/K	1-Nov, 02:36
	4-5km SE	Recorded	3	Projectile	W to E	N/K	1-Nov, 02:36
	2-4km SSE	Recorded	2	Projectile	ESE to WNW	N/K	1-Nov, 17:22
	2-4km SSE	Recorded	4	Projectile	E to W	N/K	1-Nov, 17:23
	2-4km SSE	Recorded	1	Projectile	E to W	N/K	1-Nov, 17:32
	2-4km SSE	Recorded	1	Projectile	E to W	N/K	1-Nov, 17:33
	2-4km SSE	Recorded	1	Muzzle flash		N/K	1-Nov, 17:33
	2-4km SSE	Recorded	3	Projectile	E to W	N/K	1-Nov, 17:35
	2-4km SSE	Recorded	8	Projectile	E to W	N/K	1-Nov, 17:48
	2-4km SSE	Recorded	8	Projectile	W to E	N/K	1-Nov, 17:48
	2-4km SSE	Recorded	1	Projectile	E to W	N/K	1-Nov, 18:04
	2-4km SSE	Recorded	19	Projectile	E to W	N/K	1-Nov, 18:05
	2-4km SSE	Recorded	4	Projectile	E to W	N/K	1-Nov, 18:08
	2-4km SSE	Recorded	2	Projectile	E to W	N/K	1-Nov, 18:09
SMM camera in Svitlodarsk (government-controlled, 57km NE of Donetsk)	1-3km E	Recorded	1	Projectile	NW to SE	N/K	31-Oct, 17:35
	2-4km E	Recorded	2	Projectile	SW to NE	N/K	31-Oct, 18:08
	4-6km E	Recorded	1	Explosion	Undetermined	N/K	31-Oct, 21:06
	2-4km ESE	Recorded	1	Illumination flare	In vertical flight	N/K	1-Nov, 01:15
	2-4km E	Recorded	1	Explosion	Undetermined	N/K	1-Nov, 04:49
SMM camera in Stanytsia Luhanska (government-controlled, 16km NE of Luhansk)	200-300m SSW	Recorded	1	Muzzle flash	Assessed as outside the disengagement area	Mortar (type N/K)	1-Nov, 08:34
SMM camera in Zolote (government-controlled, 60km W of Luhansk)	1-2km ESE	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	31-Oct, 17:29
	1-2km SE	Recorded	1	Projectile	WSW to ENE (unable to assess whether inside or outside the disengagement area)	N/K	31-Oct, 17:59
	1-2km SE	Recorded	6	Projectile	NE to SW (unable to assess whether inside or outside	N/K	31-Oct, 18:36

					the disengagement area)		
Kadiivka (formerly Stakhanov, non-government-controlled, 50km W of Luhansk)	4-6km NNE	Heard	50	Explosion	Undetermined	N/K	31-Oct, 22:06-22:15
	15-17km NNE	Heard	19	Explosion	Undetermined	N/K	31-Oct, 22:17-22:30
	4-5km NE	Heard	6	Explosion	Undetermined	N/K	31-Oct, 22:42-23:00
	10-15km NNE	Heard	7	Explosion	Undetermined	N/K	31-Oct, 22:42-23:00
N edge of Popasna (government-controlled, 69km W of Luhansk)	3-5km SE	Heard	5	Shot		AGS-17	1-Nov, 08:15-08:17
SE edge of Popasna (government-controlled, 69km W of Luhansk)	3-5km E	Heard	8	Burst		HMG	1-Nov, 09:33-09:35
	3-5km SE	Heard	21	Shot		AGS-17	1-Nov, 09:48-09:50
S outskirts of Zhovte (non-government-controlled, 17km NW of Luhansk)	2-2.5km S	Heard	40	Shot		Small arms	1-Nov, 09:33-09:34
NE edge of Katerynivka (government-controlled, 64km W of Luhansk) (outside DA)	3-5km ESE	Heard	3	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	1-Nov, 10:21-10:23
Zolote 4/Rodina (government-controlled, 59km W of Luhansk)	4-8km ENE	Heard	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	1-Nov, 11:06-11:07
	4-8km SW	Heard	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	1-Nov, 11:06-11:07
	200-500m E	Heard	1	Explosion	Impact (assessed as outside the disengagement area)	N/K	1-Nov, 11:07
N edge of Pervomaisk (non-government-controlled, 58km W of Luhansk)	7-10km NE	Heard	5	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	1-Nov, 12:05-12:08
Holubivske (non-government-controlled, 51km W of Luhansk)	4-5km NW	Heard	1	Explosion	Undetermined	N/K	1-Nov, 12:36
SMM camera in Kriakivka (government-controlled, 38km NW of Luhansk)	2-4km S	Recorded	1	Explosion	Undetermined	N/K	31-Oct, 19:18
	3-5km SSW	Recorded	2	Explosion	Undetermined	N/K	31-Oct, 22:10
	3-5km SSW	Recorded	1	Explosion	Undetermined	N/K	31-Oct, 22:23
	3-5km SSW	Recorded	1	Explosion	Undetermined	N/K	31-Oct, 22:25
	3-5km SSW	Recorded	1	Explosion	Undetermined	N/K	31-Oct, 22:27
	3-5km SSW	Recorded	1	Explosion	Undetermined	N/K	31-Oct, 22:28
SMM camera on N edge of Popasna (government-controlled, 69km W of Luhansk)	2-4km E	Recorded	2	Explosion	Impact	N/K	31-Oct, 17:28
	2-4km E	Recorded	1	Explosion	Impact	N/K	31-Oct, 17:59
	2-4km E	Recorded	1	Explosion	Impact	N/K	31-Oct, 18:16
	2-4km E	Recorded	1	Explosion	Impact	N/K	31-Oct, 18:17
	2-4km E	Recorded	1	Projectile	NW to SE	N/K	31-Oct, 18:17



	3-5km E	Recorded	2	Explosion	Undetermined	N/K	1-Nov, 13:25
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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).