

**Table of ceasefire violations as of 16 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	7	Projectile	SW to NE	N/K	16-Nov, 00:03
	3-5km SSE	Recorded	1	Projectile	NE to SW	N/K	16-Nov, 17:34
SMM camera in Chermalyk (government-controlled, 31km NE of Mariupol)	3-5km SSE	Recorded	6	Projectile	WSW to ENE	N/K	15-Nov, 18:26
	3-5km SSE	Recorded	1	Projectile	NNW to SSE	N/K	15-Nov, 18:36
	3-5km SSE	Recorded	1	Projectile	NNW to SSE	N/K	15-Nov, 18:42
	3-5km SSE	Recorded	1	Projectile	In vertical flight	N/K	15-Nov, 18:42
	3-5km SSE	Recorded	1	Illumination flare	In vertical flight	N/K	15-Nov, 18:43
	3-5km SSE	Recorded	1	Projectile	WSW to ENE	N/K	15-Nov, 18:43
	3-5km SSE	Recorded	2	Projectile	WSW to ENE	N/K	15-Nov, 18:44
	3-5km S	Recorded	1	Illumination flare	In vertical flight	N/K	15-Nov, 18:51
	3-5km S	Recorded	1	Projectile	In vertical flight	N/K	15-Nov, 18:51
	3-5km SE	Recorded	3	Projectile	ENE to WSW	N/K	15-Nov, 18:59
	3-5km SE	Recorded	6	Projectile	In vertical flight	N/K	15-Nov, 19:29
	2-3km SSE	Recorded	1	Projectile	WSW to ENE	N/K	15-Nov, 19:52
	2-4km SSE	Recorded	1	Illumination flare	In vertical flight	N/K	15-Nov, 20:34
	2-4km SSE	Recorded	2	Projectile	ENE to WSW	N/K	15-Nov, 20:48
	2-4km SSE	Recorded	4	Projectile	ENE to WSW	N/K	15-Nov, 20:51
	2-4km SSE	Recorded	1	Projectile	WSW to ENE	N/K	15-Nov, 20:53
	2-4km SSE	Recorded	2	Projectile	WSW to ENE	N/K	15-Nov, 20:54
	2-4km SSE	Recorded	3	Projectile	ENE to WSW	N/K	15-Nov, 22:18
	2-4km SSE	Recorded	4	Projectile	ENE to WSW	N/K	15-Nov, 22:37
	2-4km SSE	Recorded	9	Projectile	ENE to WSW	N/K	15-Nov, 22:38
	2-4km SSE	Recorded	2	Projectile	ENE to WSW	N/K	15-Nov, 22:44
	2-4km SSE	Recorded	2	Projectile	ENE to WSW	N/K	15-Nov, 23:34
	2-4km SSE	Recorded	2	Projectile	ENE to WSW	N/K	16-Nov, 00:54
2-7km SE	Recorded	4	Projectile	ENE to WSW	N/K	16-Nov, 16:43	
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	1-2km SSW	Recorded	2	Projectile	NW to SE	N/K	15-Nov, 19:40
	2-4km SSW	Recorded	1	Projectile	W to E	N/K	15-Nov, 20:25
	2-4km SSW	Recorded	2	Projectile	W to E	N/K	15-Nov, 20:26
	2-4km SSW	Recorded	1	Projectile	W to E	N/K	15-Nov, 20:27
	2-4km S	Recorded	1	Illumination flare	In vertical flight	N/K	15-Nov, 21:33
	2-4km S	Recorded	1	Illumination flare	In vertical flight	N/K	15-Nov, 21:52
	2-4km S	Recorded	1	Projectile	E to W	N/K	16-Nov, 03:20
	0.5-1km S	Recorded	1	Explosion	Impact	N/K	16-Nov, 03:26
	3-5km SW	Recorded	3	Projectile	NW to SE	N/K	16-Nov, 16:45
	3-5km SW	Recorded	1	Projectile	NW to SE	N/K	16-Nov, 16:53
	3-5km SW	Recorded	3	Projectile	W to E	N/K	16-Nov, 16:59
	3-5km SW	Recorded	4	Projectile	W to E	N/K	16-Nov, 17:17
	3-5km SW	Recorded	1	Illumination flare	W to E	N/K	16-Nov, 17:17
SMM camera 1.5km NE of Hnutove (government-controlled, 20km NE of Mariupol)	2-4km E	Recorded	2	Projectile	SW to NE	N/K	15-Nov, 18:46
	2-4km E	Recorded	2	Projectile	SW to NE	N/K	15-Nov, 18:56
	2-4km ESE	Recorded	2	Projectile	SW to NE	N/K	15-Nov, 19:02
	2-4km ENE	Recorded	3	Projectile	SW to NE	N/K	15-Nov, 22:12

<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.

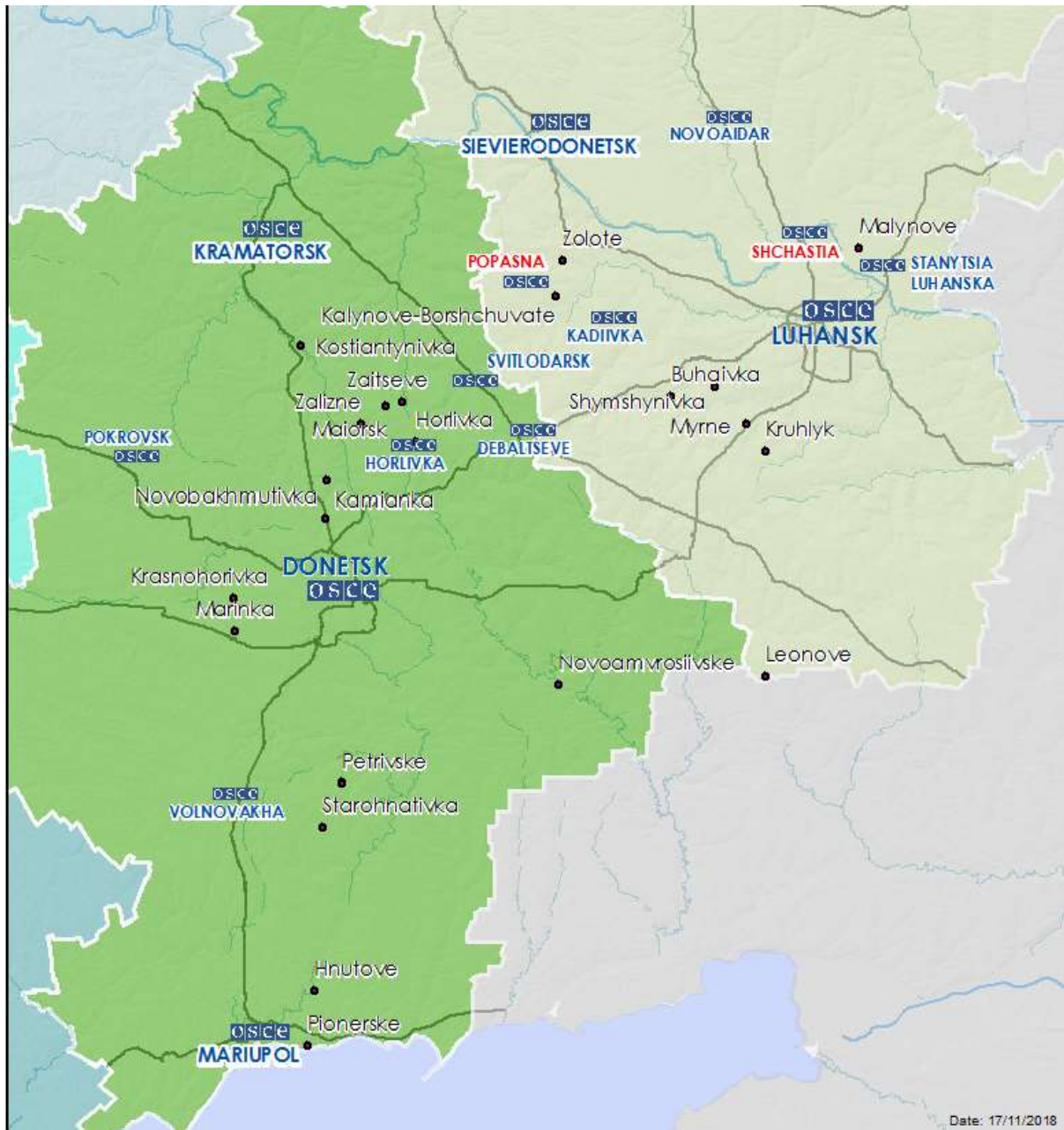
	2-4km E	Recorded	1	Projectile	SW to NE	N/K	15-Nov, 22:14
	2-4km E	Recorded	1	Projectile	S to N	N/K	15-Nov, 22:20
	2-4km ESE	Recorded	1	Projectile	S to N	N/K	15-Nov, 22:23
	2-4km ESE	Recorded	2	Projectile	N to S	N/K	15-Nov, 22:23
	2-4km ESE	Recorded	3	Projectile	N to S	N/K	15-Nov, 22:24
	2-4km E	Recorded	1	Projectile	S to N	N/K	15-Nov, 22:25
	2-4km ENE	Recorded	2	Projectile	N to S	N/K	15-Nov, 22:35
	2-4km ENE	Recorded	7	Projectile	N to S	N/K	15-Nov, 22:36
	2-4km E	Recorded	1	Projectile	S to N	N/K	15-Nov, 23:11
	2-4km ESE	Recorded	1	Projectile	In vertical flight	N/K	15-Nov, 23:11
	2-4km ENE	Recorded	1	Projectile	N to S	N/K	15-Nov, 23:18
	2-4km ENE	Recorded	1	Projectile	N to S	N/K	15-Nov, 23:20
	2-4km ENE	Recorded	5	Projectile	N to S	N/K	15-Nov, 23:21
	2-4km ENE	Recorded	5	Projectile	N to S	N/K	15-Nov, 23:54
	2-4km ENE	Recorded	4	Projectile	S to N	N/K	16-Nov, 01:25
	2-4km ENE	Recorded	2	Projectile	S to N	N/K	16-Nov, 01:26
	2-4km ENE	Recorded	2	Projectile	S to N	N/K	16-Nov, 01:27
	2-4km ENE	Recorded	1	Projectile	S to N	N/K	16-Nov, 01:28
	2-4km ENE	Recorded	2	Projectile	S to N	N/K	16-Nov, 01:30
	2-4km ENE	Recorded	1	Explosion	Undetermined	N/K	16-Nov, 01:31
	2-4km ENE	Recorded	2	Projectile	S to N	N/K	16-Nov, 01:31
	2-4km ENE	Recorded	2	Projectile	S to N	N/K	16-Nov, 01:32
	2-4km ENE	Recorded	1	Projectile	S to N	N/K	16-Nov, 01:33
	2-4km ENE	Recorded	1	Projectile	S to N	N/K	16-Nov, 01:33
	2-4km ESE	Recorded	13	Projectile	N to S	N/K	16-Nov, 02:05
	2-4km ENE	Recorded	1	Projectile	N to S	N/K	16-Nov, 02:25
	2-4km ENE	Recorded	4	Projectile	N to S	N/K	16-Nov, 02:44
	2-4km ESE	Recorded	1	Projectile	N to S	N/K	16-Nov, 03:13
	2-4km ENE	Recorded	7	Projectile	N to S	N/K	16-Nov, 03:27
	2-4km ENE	Recorded	3	Projectile	N to S	N/K	16-Nov, 05:20
SMM camera E of Lomakyne (government-controlled, 15km NE of Mariupol)	2-4km NE	Recorded	1	Illumination flare	In vertical flight	N/K	15-Nov, 17:08
	2-4km NE	Recorded	2	Projectile	W to E	N/K	15-Nov, 18:15
	2-4km ENE	Recorded	1	Explosion	Undetermined	N/K	15-Nov, 20:13
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	2-4km ESE	Recorded	1	Projectile	S to N	N/K	15-Nov, 21:29
	2-4km E	Recorded	12	Projectile	N to S	N/K	15-Nov, 22:10
	2-4km E	Recorded	13	Projectile	N to S	N/K	15-Nov, 22:15
	2-4km E	Recorded	12	Projectile	N to S	N/K	15-Nov, 22:16
	2-4km E	Recorded	7	Projectile	N to S	N/K	15-Nov, 22:20
	2-4km E	Recorded	2	Projectile	N to S	N/K	15-Nov, 22:23
	2-4km E	Recorded	9	Projectile	N to S	N/K	15-Nov, 22:25
	2-4km E	Recorded	2	Projectile	N to S	N/K	15-Nov, 22:26
	2-4km E	Recorded	2	Projectile	N to S	N/K	15-Nov, 22:45
	2-4km E	Recorded	4	Projectile	N to S	N/K	15-Nov, 23:08
	2-4km E	Recorded	8	Projectile	N to S	N/K	15-Nov, 23:10
	2-4km E	Recorded	1	Projectile	S to N	N/K	15-Nov, 23:14
	2-4km ENE	Recorded	1	Explosion	Impact	N/K	15-Nov, 23:20
	2-4km ENE	Recorded	1	Projectile	N to S	N/K	15-Nov, 23:21
	2-4km ENE	Recorded	1	Explosion	Impact	N/K	15-Nov, 23:21
	2-4km ENE	Recorded	1	Projectile	N to S	N/K	15-Nov, 23:48
	2-4km ENE	Recorded	5	Projectile	S to N	N/K	15-Nov, 23:52
	2-4km E	Recorded	5	Projectile	N to S	N/K	15-Nov, 23:54
	2-4km E	Recorded	8	Projectile	NW to SE	N/K	16-Nov, 00:00
	2-4km E	Recorded	8	Projectile	N to S	N/K	16-Nov, 00:10
	2-4km E	Recorded	7	Projectile	N to S	N/K	16-Nov, 00:11
	2-4km ESE	Recorded	3	Projectile	N to S	N/K	16-Nov, 02:32
	3-4km ESE	Recorded	4	Projectile	N to S	N/K	16-Nov, 16:58
	3-4km ESE	Recorded	6	Projectile	N to S	N/K	16-Nov, 17:32
	3-4km E	Recorded	1	Projectile	S to N	N/K	16-Nov, 17:49

SMM camera at entry-exit checkpoint in Pyshchevyk (government-controlled, 25km NE of Mariupol)	2-4km S	Recorded	3	Projectile	E to W	N/K	15-Nov, 18:48
	2-4km SSE	Recorded	1	Projectile	NE to SW	N/K	15-Nov, 18:51
	2-4km SSE	Recorded	1	Projectile	E to W	N/K	15-Nov, 18:51
	2-4km S	Recorded	1	Projectile	E to W	N/K	15-Nov, 19:09
	2-4km S	Recorded	4	Projectile	NE to SW	N/K	15-Nov, 19:12
	2-4km SSE	Recorded	1	Projectile	E to W	N/K	15-Nov, 22:12
	2-4km S	Recorded	2	Projectile	E to W	N/K	15-Nov, 22:28
	2-4km S	Recorded	3	Projectile	W to E	N/K	15-Nov, 22:28
2-4km SSE	Recorded	4	Projectile	E to W	N/K	16-Nov, 02:05	
Debaltseve (non-government-controlled, 58km NE of Donetsk)	0.5-1km N	Heard	1	Explosion	Undetermined	N/K	15-Nov, 22:47
SE part of Avdiivka (government-controlled, 17km N of Donetsk)	2-3km SE	Heard	1	Explosion	Undetermined	N/K	16-Nov, 09:39
Marinka (government-controlled, 23km SW of Donetsk)	1km NE	Heard	2	Shot		Small arms	16-Nov, 11:40
	1-2km SE	Heard	5	Shot		Small arms	16-Nov, 11:43
Krasnohorivka (government-controlled, 21km W of Donetsk)	1-2km NE	Heard	4	Shot		Small arms	16-Nov, 12:26
	1-2km NE	Heard	3	Explosion	Undetermined	N/K	16-Nov, 12:26
	1-2km NE	Heard	6	Burst		HMG	16-Nov, 12:35
Oleksandrivka (non-government-controlled, 20km SW of Donetsk)	1-3km N	Heard	12	Shot		Small arms	16-Nov, 09:40-10:00
	1-3km N	Heard	2	Explosion	Undetermined	N/K	16-Nov, 09:40-10:00
	1-3km N	Heard	12	Burst		AGL	16-Nov, 09:40-10:00
	1-2km N	Heard	1	Shot		AGL	16-Nov, 11:33
1.1km NW of railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	1.5-2km WSW	Heard	4	Shot		Small arms	16-Nov, 12:50
	1-2km SSE	Heard	3	Shot		Small arms	16-Nov, 13:00
	1-2km S	Heard	10	Shot		Small arms	16-Nov, 13:00
	1.5-2km S	Heard	71	Shot		Small arms	16-Nov, 13:20-13:32
2km SE of Lebedynske (government-controlled, 16km NE of Mariupol)	N/K NE	Heard	109	Shot	Cannon	Other	16-Nov, 10:10-10:30
	N/K NE	Heard	4	Burst		HMG	16-Nov, 10:10-10:30
	N/K NE	Heard	6	Shot		Small arms	16-Nov, 10:10-10:30
	N/K NE	Heard	37	Shot	Cannon	Other	16-Nov, 10:30-10:47
2km N of Pionerske (government-controlled, 14km E of Mariupol)	N/K E	Heard	3	Explosion	Undetermined	N/K	16-Nov, 10:57
Trudivske (government-controlled, 47km S of Donetsk)	E	Heard		Shot	Uncountable	IFV	16-Nov, 12:22-12:32
Chermalyk (government-controlled, 31km NE of Mariupol)	N/K E	Heard	3	Explosion	Undetermined	N/K	16-Nov, 13:03
Svitlodarsk (government-controlled, 57km NE of Donetsk)	2-3km SE	Heard	2	Explosion	Undetermined	N/K	15-Nov, 18:34-18:35
	3-4km SSE	Heard	17	Burst		HMG	15-Nov, 18:53
	3-4km SE	Heard	1	Explosion	Undetermined	N/K	15-Nov, 18:55
	2-3km SE	Heard	35	Burst		HMG	15-Nov, 18:57-18:59
	3-4km SE	Heard	18	Burst		HMG	15-Nov, 19:00-19:01
	3-4km SSE	Heard	1	Explosion	Undetermined	N/K	15-Nov, 19:01
	3-4km SSE	Heard	45	Burst		HMG	15-Nov, 19:05-19:07
	2-3km SE	Heard	2	Explosion	Undetermined	N/K	15-Nov, 19:09
2-3km SE	Heard	17	Burst		HMG	15-Nov, 19:10	

	3-4km SSE	Heard	23	Burst		HMG	15-Nov, 19:15
	1-2km SE	Heard	6	Shot		Small arms	15-Nov, 19:19
	2-3km SE	Heard	1	Explosion	Undetermined	N/K	15-Nov, 19:21
	2-3km SSE	Heard	1	Explosion	Undetermined	N/K	15-Nov, 19:23
	3-4km SE	Heard	34	Burst		HMG	15-Nov, 19:30
	2-3km SE	Heard	11	Burst		HMG	15-Nov, 19:46
	4-5km SSE	Heard	2	Explosion	Undetermined	N/K	15-Nov, 19:50
	1-2km SE	Heard	1	Explosion	Undetermined	N/K	15-Nov, 19:57
	4-5km SE	Heard	7	Burst		HMG	15-Nov, 20:00
	1-2km SSE	Heard	12	Burst		HMG	15-Nov, 20:06
	2-3km SE	Heard	2	Burst		HMG	15-Nov, 20:12
	2-3km SE	Heard	2	Explosion	Undetermined	N/K	15-Nov, 20:20
	2-3km SE	Heard	1	Explosion	Undetermined	N/K	15-Nov, 20:24
	3-4km SE	Heard	2	Explosion	Undetermined	N/K	15-Nov, 20:31
	4-5km SE	Heard	4	Explosion	Undetermined	N/K	15-Nov, 20:57
	4-5km SSE	Heard	21	Burst		HMG	15-Nov, 21:09-21:11
	1-2km SE	Heard	54	Burst		HMG	15-Nov, 21:14-21:16
	2-3km SSE	Heard	6	Explosion	Undetermined	N/K	15-Nov, 21:14-21:16
	2-3km SE	Heard	5	Explosion	Undetermined	N/K	15-Nov, 21:17
	1-2km SE	Heard	3	Explosion	Undetermined	N/K	15-Nov, 21:20
	4-5km SE	Heard	3	Explosion	Undetermined	N/K	15-Nov, 21:17
	2-3km SE	Heard	4	Explosion	Undetermined	N/K	15-Nov, 21:29
	2-3km SE	Heard	17	Burst		HMG	15-Nov, 21:29
	2-3km SE	Heard	22	Burst		HMG	15-Nov, 21:32
	2-3km SE	Heard	1	Explosion	Undetermined	N/K	15-Nov, 21:35
	4-5km SSE	Heard	4	Explosion	Undetermined	N/K	15-Nov, 21:38
	4-5km SSE	Heard	13	Burst		HMG	15-Nov, 21:38
	2-3km SE	Heard	11	Burst		HMG	15-Nov, 21:44
	3-4km SSE	Heard	5	Burst		HMG	15-Nov, 21:48
	3-4km SE	Heard	2	Explosion	Undetermined	N/K	15-Nov, 21:53
	3-4km SE	Heard	7	Burst		HMG	15-Nov, 22:13
	2-3km SE	Heard	3	Burst		HMG	15-Nov, 22:17
	1-2km SE	Heard	1	Explosion	Undetermined	N/K	15-Nov, 22:23
	5-6km SSE	Heard	7	Burst		HMG	15-Nov, 22:31
	5-6km SSE	Heard	5	Burst		HMG	15-Nov, 22:39
	4-5km SE	Heard	13	Burst		HMG	15-Nov, 23:23
	3-4km SE	Heard	1	Explosion	Undetermined	N/K	15-Nov, 23:27
	1-2km SE	Heard	1	Explosion	Undetermined	N/K	15-Nov, 23:33
	1-2km SE	Heard	2	Explosion	Undetermined	N/K	15-Nov, 22:44
	2-3km SE	Heard	23	Burst		HMG	15-Nov, 22:47-23:49
	1-2km SE	Heard	1	Explosion	Undetermined	N/K	15-Nov, 22:47
	4-5km SSE	Heard	2	Explosion	Undetermined	N/K	16-Nov, 08:32
	3-4km SSE	Heard	1	Explosion	Undetermined	N/K	16-Nov, 08:55
	2-3km SSE	Heard	3	Explosion	Undetermined	N/K	16-Nov, 12:00-12:03
	2-3km SSE	Heard	1	Explosion	Undetermined	N/K	16-Nov, 12:05
	2-3km SSE	Heard	4	Explosion	Undetermined	N/K	16-Nov, 13:05
	2-3km SSE	Heard	3	Explosion	Undetermined	N/K	16-Nov, 14:10
	2-3km SSE	Heard	4	Explosion	Undetermined	N/K	16-Nov, 14:20
E edge of Kamianka (government-controlled, 20km N of Donetsk)	3-4km S	Heard	1	Explosion	Undetermined	N/K	16-Nov, 09:16
	3-4km S	Heard	1	Explosion	Undetermined	N/K	16-Nov, 09:37
	2-4km E	Heard	1	Explosion	Undetermined	N/K	16-Nov, 10:15
	2-4km SSE	Heard	2	Explosion	Undetermined	N/K	16-Nov, 10:30
	3-5km E	Heard	1	Explosion	Undetermined	N/K	16-Nov, 10:32
	4-6km S	Heard	21	Burst		HMG	16-Nov,

							11:00-11:05
	3-4km S	Heard	2	Explosion	Undetermined	N/K	16-Nov, 11:20
	3-4km S	Heard	10	Burst		HMG	16-Nov, 11:22
	3-4km S	Heard	3	Explosion	Undetermined	N/K	16-Nov, 12:05
	3-4km S	Heard	4	Burst		HMG	16-Nov, 12:10
	3-4km S	Heard	6	Explosion	Undetermined	N/K	16-Nov, 13:20-13:25
	3-4km S	Heard	6	Explosion	Undetermined	N/K	16-Nov, 13:29-13:31
	1-2km S	Heard	4	Burst		Small arms	16-Nov, 13:34
1.3km NNW of Kalynove-Borshchuvate (non-government-controlled, 61km W of Luhansk)	4-5km NE	Heard	5	Explosion	Undetermined	N/K	16-Nov, 09:20-09:21
3.2km NNW of Yuzhna-Lomuvatka (non-government-controlled, 60km W of Luhansk)	6-8km N	Heard	3	Explosion	Undetermined	N/K	16-Nov, 10:15-10:25
	6-8km N	Heard	18	Burst		HMG	16-Nov, 10:15-10:25
About 5km WSW of Popasna (government-controlled, 69km W of Luhansk)	8-10km SW	Heard	1	Explosion	Undetermined	N/K	16-Nov, 10:50
NE outskirts of Popasna (government-controlled, 69km W of Luhansk)	2-3km E	Heard	2	Shot		Small arms	16-Nov, 11:48
SW outskirts of Zolote-5/Mykhailivka (non-government-controlled, 58km W of Luhansk)	3-4km N	Heard	4	Shot	Assessed as outside the disengagement area	Small arms	16-Nov, 11:32
SE outskirts of Trokhizbenka (government-controlled, 32km NW of Luhansk)	3-5km S	Heard	15	Burst		HMG	16-Nov, 12:03-12:10
Trokhizbenka (government-controlled, 32km NW of Luhansk)	7-10km SE	Heard	1	Explosion	Undetermined	N/K	16-Nov, 12:43

## 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).