

Table of ceasefire violations as of 1 December 2019⁹

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	4	Projectile	W to E	N/K	29-Nov, 20:48	
	4-6km SE	Recorded	2	Projectile	ENE to WSW	N/K	29-Nov, 18:32	
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	3-5km SSE	Recorded	2	Projectile	SW to NE	N/K	29-Nov, 19:15	
	2-4km SE	Recorded	1	Projectile	NNE to SSW	N/K	29-Nov, 21:12	
	2-4km SSE	Recorded	2	Projectile	WSW to ENE	N/K	29-Nov, 21:13	
	2-4km SSE	Recorded	2	Projectile	NNE to SSW	N/K	29-Nov, 21:15	
	2-4km SE	Recorded	6	Projectile	SW to NE	N/K	30-Nov, 00:09	
	2-4km SE	Recorded	2	Projectile	SW to NE	N/K	30-Nov, 00:33	
	2-4km SE	Recorded	1	Projectile	SW to NE	N/K	30-Nov, 00:48	
	2-4km SE	Recorded	2	Projectile	SW to NE	N/K	30-Nov, 00:50	
	3-5km SSE	Recorded	5	Projectile	SW to NE	N/K	30-Nov, 18:22	
	2-2.5km SSW	Recorded	6	Projectile	W to E	N/K	29-Nov, 21:14	
	SMM camera at Donetsk Filtration Station (15km N of Donetsk)	1-2km SSW	Recorded	3	Projectile	W to E	N/K	30-Nov, 00:33
	SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk)	4-6km SE	Recorded	3	Projectile	NNE to SSW	N/K	29-Nov, 18:47
3-5km SE		Recorded	2	Projectile	NNE to SSW	N/K	29-Nov, 21:36	
SMM camera E of Lomakyne (government-controlled, 90km S of Donetsk)	3-5km E	Recorded	3	Projectile	SW to NE	N/K	29-Nov, 20:54	
	3-5km ENE	Recorded	3	Projectile	SW to NE	N/K	29-Nov, 20:56	
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	2-4km E	Recorded	1	Projectile	NNW to SSE	N/K	30-Nov, 00:17	
	2-4km ENE	Recorded	1	Projectile	NW to SE	N/K	30-Nov, 01:59	
	2-4km ENE	Recorded	4	Projectile	NNW to SSE	N/K	30-Nov, 05:03	
SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)	3-5km NNE	Recorded	1	Projectile	WSW to ENE	N/K	29-Nov, 20:35	
SMM camera 1km SW of Shyrokyne (government-controlled, 100km S of Donetsk)	3-5km N	Recorded	6	Projectile	E to W	N/K	29-Nov, 19:04	
	3-5km N	Recorded	3	Projectile	E to W	N/K	29-Nov, 19:26	
	3-5km NNW	Recorded	2	Explosion	Undetermined	N/K	29-Nov, 19:26	
	3-5km N	Recorded	3	Projectile	E to W	N/K	29-Nov, 19:27	
	3-5km NNW	Recorded	3	Explosion	Undetermined	N/K	29-Nov, 19:27	
	3-5km N	Recorded	4	Projectile	E to W	N/K	29-Nov, 19:38	
	4-6km N	Recorded	8	Projectile	W to E	N/K	29-Nov, 20:22	

⁹ 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.

	4-6km N	Recorded	6	Projectile	W to E	N/K	29-Nov, 20:23
	4-6km N	Recorded	3	Projectile	W to E	N/K	29-Nov, 20:24
	4-6km N	Recorded	2	Projectile	W to E	N/K	29-Nov, 20:53
	4-6km N	Recorded	5	Projectile	W to E	N/K	29-Nov, 20:54
	3-5km N	Recorded	13	Projectile	E to W	N/K	29-Nov, 20:54
	4-6km N	Recorded	7	Projectile	W to E	N/K	29-Nov, 20:55
	4-6km N	Recorded	6	Projectile	W to E	N/K	29-Nov, 20:56
	4-6km NNE	Recorded	3	Projectile	E to W	N/K	29-Nov, 22:11
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	29-Nov, 22:35
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	29-Nov, 22:38
	4-6km NNE	Recorded	3	Projectile	E to W	N/K	29-Nov, 22:40
	4-6km NNW	Recorded	1	Explosion	Undetermined	N/K	29-Nov, 22:40
	4-6km N	Recorded	2	Explosion	Undetermined	N/K	29-Nov, 22:42
	4-6km NNW	Recorded	2	Explosion	Undetermined	N/K	29-Nov, 22:45
	4-6km NNW	Recorded	1	Explosion	Undetermined	N/K	29-Nov, 22:48
	4-6km NNE	Recorded	1	Projectile	E to W	N/K	29-Nov, 22:51
	4-6km NNW	Recorded	1	Explosion	Undetermined	N/K	29-Nov, 22:51
	4-6km NNW	Recorded	1	Explosion	Undetermined	N/K	29-Nov, 22:53
	4-6km NNE	Recorded	1	Explosion	Undetermined	N/K	29-Nov, 23:03
	4-6km NNE	Recorded	1	Explosion	Undetermined	N/K	29-Nov, 23:04
	4-6km NNE	Recorded	1	Explosion	Undetermined	N/K	29-Nov, 23:05
	4-6km NNW	Recorded	1	Explosion	Undetermined	N/K	29-Nov, 23:06
	4-6km N	Recorded	1	Projectile	SE to NW	N/K	30-Nov, 00:40
	4-6km N	Recorded	1	Projectile	SSE to NNW	N/K	30-Nov, 00:50
	3-5km N	Recorded	1	Projectile	W to E	N/K	30-Nov, 18:18
	3-5km N	Recorded	2	Projectile	E to W	N/K	30-Nov, 18:20
SMM camera in Svitlodarsk (government-controlled, 57km NE of Donetsk)	3-5km ESE	Recorded	3	Projectile	N to S	N/K	29-Nov, 18:31
	3-5km ESE	Recorded	2	Projectile	N to S	N/K	29-Nov, 18:51
	3-5km ESE	Recorded	2	Projectile	N to S	N/K	29-Nov, 18:53
	3-5km ESE	Recorded	2	Projectile	N to S	N/K	29-Nov, 18:54
	3-5km ESE	Recorded	9	Projectile	N to S	N/K	29-Nov, 18:57
	3-5km ENE	Recorded	1	Explosion	Undetermined	N/K	30-Nov, 00:43
	4-6km ESE	Recorded	4	Projectile	S to N	N/K	30-Nov, 17:28
About 3km WSW of Donetsk central railway station (non-government-controlled, 6km NW of Donetsk city centre)						Small arms	
	2-3km WSW	Heard	1	Burst			30-Nov, 11:14
Pervomaiske (government-controlled, 17km NW of Donetsk)	1-2km SSW	Heard	1	Burst		HMG	30-Nov, 13:30
	1-2km SSW	Heard	2	Burst		HMG	30-Nov, 13:39
Railway station in Yasnyuvata (non-government-controlled, 16km NE of Donetsk)							
	2-3km WSW	Heard	2	Burst		HMG	30-Nov, 12:30
Svitlodarsk (government-controlled, 57km NE of Donetsk)	4-5km SE	Heard	2	Explosion	Undetermined	N/K	29-Nov, 19:15
	4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 19:18
	4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 19:19
	4-5km SE	Heard	2	Explosion	Undetermined	N/K	29-Nov, 19:20
	4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 19:21
	2-3km SE	Heard	3	Shot		Small arms	29-Nov, 19:21
	4-5km SE	Heard	2	Explosion	Undetermined	N/K	29-Nov, 19:22
	4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 19:23
	4-5km SE	Heard	2	Explosion	Undetermined	N/K	29-Nov, 19:24
	4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 19:25

4-5km SE	Heard	2	Explosion	Undetermined	N/K	29-Nov, 19:27
4-5km SE	Heard	3	Explosion	Undetermined	N/K	29-Nov, 19:28
4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 19:30
4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 19:31
3-4km SE	Heard	4	Burst		HMG	29-Nov, 19:33
4-5km SE	Heard	2	Explosion	Undetermined	N/K	29-Nov, 19:35
4-5km SE	Heard	3	Explosion	Undetermined	N/K	29-Nov, 19:36
3-4km SE	Heard	5	Burst		HMG	29-Nov, 19:37
4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 19:37
3-4km SE	Heard	7	Burst		HMG	29-Nov, 19:38
4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 19:38
4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 19:39
4-5km SE	Heard	2	Explosion	Undetermined	N/K	29-Nov, 19:41
3-4km SE	Heard	2	Burst		HMG	29-Nov, 19:44
4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 19:45
4-5km SE	Heard	2	Explosion	Undetermined	N/K	29-Nov, 19:50
4-5km SE	Heard	4	Explosion	Undetermined	N/K	29-Nov, 19:53
3-4km SE	Heard	7	Burst		HMG	29-Nov, 19:57
4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 19:57
4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 20:03
4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 20:05
4-5km SE	Heard	2	Explosion	Undetermined	N/K	29-Nov, 20:09
2-3km SE	Heard	3	Shot		Small arms	29-Nov, 20:09
4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 20:16
4-5km SE	Heard	2	Explosion	Undetermined	N/K	29-Nov, 20:24
3-4km SE	Heard	3	Burst		Small arms	29-Nov, 20:24
2-3km SE	Heard	3	Shot		Small arms	29-Nov, 20:29
3-4km SE	Heard	5	Burst		Small arms	29-Nov, 20:35
4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 20:37
4-5km SE	Heard	2	Explosion	Undetermined	N/K	29-Nov, 20:40
2-4km SE	Heard	Uncountable	Shots and bursts	Uncountable and overlapping	Small arms	29-Nov, 20:51-20:55
4-5km SE	Heard	2	Explosion	Undetermined	N/K	29-Nov, 21:03
3-4km SE	Heard	5	Burst		HMG	29-Nov, 21:09
3-4km SE	Heard	3	Burst		HMG	29-Nov, 21:13
4-5km SE	Heard	3	Explosion	Undetermined	N/K	29-Nov, 21:13
4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 21:22
3-4km SE	Heard	3	Burst		HMG	29-Nov, 21:35
4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 21:37
4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 21:38
3-4km SE	Heard	8	Burst		HMG	29-Nov, 21:40
3-4km SE	Heard	5	Burst		HMG	29-Nov, 21:44
3-4km SE	Heard	8	Burst		HMG	29-Nov, 22:05
2-4km SE	Heard	Uncountable	Shots and bursts	Uncountable and overlapping	Small arms	29-Nov, 22:13-22:15
2-4km SE	Heard	Uncountable	Shots and bursts	Uncountable and overlapping	Small arms	29-Nov, 22:35-22:37
4-5km SE	Heard	3	Explosion	Undetermined	N/K	29-Nov, 22:40
2-4km SE	Heard	Uncountable	Shots and bursts	Uncountable and overlapping	Small arms	29-Nov, 22:44-22:45
4-5km SE	Heard	1	Explosion	Undetermined	N/K	29-Nov, 22:55
3-4km SE	Heard	6	Burst		HMG	29-Nov, 22:57

	3-4km SE	Heard	5	Burst		HMG	29-Nov, 23:13
	3-4km SE	Heard	3	Burst		HMG	29-Nov, 23:16
	3-4km SE	Heard	5	Burst		HMG	29-Nov, 23:50
SMM camera in Avdiivka (government-controlled, 17km N of Donetsk)	3-5km ESE	Recorded	8	Projectile	SW to NE	N/K	1-Dec, 01:34
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	3-5km ESE	Recorded	1	Projectile	SW to NE	N/K	30-Nov, 18:43
	5-6km SSE	Recorded	4	Projectile	ENE to WSW	N/K	1-Dec, 17:01
	4-5km SE	Recorded	1	Projectile	ENE to WSW	N/K	1-Dec, 17:02
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	30-Nov, 22:54
	1-3km SSW	Recorded	1	Projectile	ENE to WSW	N/K	30-Nov, 23:48
	1-3km SSW	Recorded	1	Explosion	Undetermined	N/K	1-Dec, 00:13
	1-2km S	Recorded	1	Projectile	WNW to ESE	N/K	1-Dec, 01:29
	1-2km SSW	Recorded	7	Projectile	ESE to WNW	N/K	1-Dec, 01:34
	1-2km S	Recorded	1	Projectile	WNW to ESE	N/K	1-Dec, 01:34
	1-2km SSE	Recorded	1	Projectile	WNW to ESE	N/K	1-Dec, 01:49
	1-3km SSW	Recorded	1	Projectile	WNW to ESE	N/K	1-Dec, 02:50
	1-3km SSW	Recorded	1	Projectile	WNW to ESE	N/K	1-Dec, 02:51
	1-3km SSW	Recorded	2	Projectile	ESE to WNW	N/K	1-Dec, 17:13
	1-3km SSW	Recorded	1	Projectile	ESE to WNW	N/K	1-Dec, 17:13
SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk)	3-5km SE	Recorded	1	Projectile	NNE to SSW	N/K	30-Nov, 18:45
	3-5km E	Recorded	1	Projectile	NNE to SSW	N/K	30-Nov, 19:00
	3-5km E	Recorded	1	Explosion	Undetermined	N/K	30-Nov, 19:00
	3-5km E	Recorded	13	Projectile	NNE to SSW	N/K	30-Nov, 19:01
	3-5km E	Recorded	7	Projectile	NNE to SSW	N/K	30-Nov, 19:02
	3-5km E	Recorded	5	Projectile	In vertical flight	N/K	30-Nov, 19:03
	3-5km E	Recorded	1	Explosion	Undetermined	N/K	30-Nov, 19:07
	3-5km E	Recorded	2	Projectile	SSW to NNE	N/K	30-Nov, 19:21
	3-5km E	Recorded	1	Projectile	NNE to SSW	N/K	30-Nov, 19:41
	3-5km E	Recorded	1	Projectile	N to S	N/K	30-Nov, 19:49
	3-5km SE	Recorded	4	Projectile	NNE to SSW	N/K	30-Nov, 19:50
	3-5km SE	Recorded	2	Projectile	SSW to NNE	N/K	30-Nov, 19:51
	3-5km SE	Recorded	2	Projectile	NNE to SSW	N/K	30-Nov, 19:53
	3-5km ESE	Recorded	2	Explosion	Undetermined	N/K	30-Nov, 20:04
	3-5km ESE	Recorded	1	Projectile	SSW to NNE	N/K	30-Nov, 20:04
	3-5km ESE	Recorded	2	Explosion	Undetermined	N/K	30-Nov, 20:05
	3-5km ESE	Recorded	1	Projectile	SSW to NNE	N/K	30-Nov, 20:05
	3-5km SE	Recorded	5	Projectile	SW to NE	N/K	30-Nov, 20:07
	3-5km SE	Recorded	1	Projectile	SW to NE	N/K	30-Nov, 20:11
	3-5km SE	Recorded	3	Projectile	SW to NE	N/K	30-Nov, 20:12
	3-5km SE	Recorded	4	Projectile	SW to NE	N/K	30-Nov, 20:14
	3-5km SE	Recorded	4	Projectile	NNE to SSW	N/K	30-Nov, 20:27
	3-5km SE	Recorded	1	Projectile	NNE to SSW	N/K	30-Nov, 20:31
	3-5km SE	Recorded	5	Projectile	SW to NE	N/K	30-Nov, 20:31
	3-5km SE	Recorded	1	Projectile	W to E	N/K	30-Nov, 20:31
	3-5km ESE	Recorded	2	Projectile	N to S	N/K	30-Nov, 21:13
	3-5km SE	Recorded	3	Projectile	SW to NE	N/K	30-Nov, 21:31
	3-5km ESE	Recorded	2	Projectile	NNE to SSW	N/K	30-Nov, 21:37
	3-5km SE	Recorded	3	Projectile	N to S	N/K	30-Nov, 21:48
	3-5km ESE	Recorded	1	Projectile	NNE to SSW	N/K	30-Nov, 21:50
	3-5km SE	Recorded	1	Projectile	SW to NE	N/K	30-Nov, 22:14
	3-5km ESE	Recorded	3	Projectile	NNE to SSW	N/K	30-Nov, 22:36
	3-5km ESE	Recorded	5	Projectile	N to S	N/K	1-Dec, 03:24
	3-5km SE	Recorded	2	Projectile	NNE to SSW	N/K	1-Dec, 04:30
	3-5km ESE	Recorded	2	Projectile	NNE to SSW	N/K	1-Dec, 17:35

SMM camera E of Lomakyne (government-controlled, 90km S of Donetsk)	3-5km ESE	Recorded	1	Projectile	SSW to NNE	N/K	1-Dec, 17:35
	3-5km ESE	Recorded	2	Projectile	NNE to SSW	N/K	1-Dec, 18:00
	3-5km ESE	Recorded	1	Projectile	SSW to NNE	N/K	1-Dec, 18:00
	3-5km ESE	Recorded	3	Projectile	NNE to SSW	N/K	1-Dec, 18:15
	2-4km ENE	Recorded	2	Projectile	S to N	N/K	30-Nov, 20:27
	3-5km ESE	Recorded	8	Projectile	N to S (also recorded by SMM camera in Hnutove)	N/K	1-Dec, 16:31
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	3-5km ENE	Recorded	1	Projectile	N to S (also recorded by SMM camera in Hnutove)	N/K	1-Dec, 16:31
	3-5km ESE	Recorded	1	Projectile	S to N	N/K	1-Dec, 17:34
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	3-5km E	Recorded	3	Explosion	Undetermined	N/K	30-Nov, 19:43
	3-5km ENE	Recorded	1	Illumination flare	N to S	N/K	30-Nov, 22:39
SMM camera 1km SW of Shyrokyne (government-controlled, 100km S of Donetsk)	3-5km NNE	Recorded	12	Projectile	E to W	N/K	30-Nov, 18:43
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	30-Nov, 19:35
	3-5km N	Recorded	1	Muzzle flash		N/K	30-Nov, 19:39
	4-7km N	Recorded	4	Projectile	E to W	N/K	30-Nov, 20:28
	4-7km N	Recorded	2	Projectile	E to W	N/K	30-Nov, 20:29
	4-7km N	Recorded	1	Projectile	W to E	N/K	30-Nov, 20:32
	4-7km NNE	Recorded	21	Projectile	E to W	N/K	30-Nov, 20:47
	4-7km N	Recorded	3	Projectile	E to W	N/K	30-Nov, 21:33
	4-7km N	Recorded	2	Projectile	W to E	N/K	30-Nov, 21:59
	4-7km N	Recorded	4	Projectile	W to E	N/K	30-Nov, 22:12
	4-7km N	Recorded	2	Projectile	ESE to WNW	N/K	30-Nov, 22:38
	3-5km N	Recorded	5	Projectile	ESE to WNW	N/K	1-Dec, 00:02
	3-5km N	Recorded	9	Projectile	W to E	N/K	1-Dec, 00:24
	4-7km N	Recorded	1	Projectile	E to W	N/K	1-Dec, 01:05
	4-7km N	Recorded	1	Projectile	W to E	N/K	1-Dec, 01:10
	4-7km N	Recorded	5	Projectile	W to E	N/K	1-Dec, 01:11
	4-7km N	Recorded	4	Projectile	W to E	N/K	1-Dec, 01:19
	4-7km N	Recorded	2	Projectile	W to E	N/K	1-Dec, 01:20
	4-7km N	Recorded	1	Explosion	Undetermined	N/K	1-Dec, 01:24
	3-5km N	Recorded	3	Projectile	WSW to ENE	N/K	1-Dec, 01:45
	4-7km N	Recorded	1	Muzzle flash		N/K	1-Dec, 01:46
	4-7km N	Recorded	3	Projectile	E to W	N/K	1-Dec, 01:46
	4-7km N	Recorded	1	Explosion	Undetermined	N/K	1-Dec, 01:46
	4-7km N	Recorded	1	Explosion	Undetermined	N/K	1-Dec, 01:49
	4-7km N	Recorded	1	Projectile	W to E	N/K	1-Dec, 02:26
	4-7km N	Recorded	1	Explosion	Undetermined	N/K	1-Dec, 02:26
	4-7km N	Recorded	3	Projectile	W to E	N/K	1-Dec, 02:28
	4-7km N	Recorded	1	Projectile	W to E	N/K	1-Dec, 02:45
	4-7km NNE	Recorded	1	Explosion	Undetermined	N/K	1-Dec, 03:07
	4-7km N	Recorded	2	Projectile	W to E	N/K	1-Dec, 03:38
	4-7km NNW	Recorded	2	Projectile	W to E	N/K	1-Dec, 03:51
	3-5km N	Recorded	2	Projectile	W to E	N/K	1-Dec, 16:40
	3-5km NNE	Recorded	3	Projectile	SSE to NNW	N/K	1-Dec, 17:04
	3-5km N	Recorded	5	Projectile	W to E	N/K	1-Dec, 17:07
	3-5km N	Recorded	2	Projectile	E to W	N/K	1-Dec, 17:12
	3-5km N	Recorded	1	Muzzle flash		N/K	1-Dec, 17:19
	3-5km N	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	1-Dec, 17:19

	3-5km NNE	Recorded	1	Explosion	Undetermined	N/K	1-Dec, 17:19
	3-5km N	Recorded	1	Muzzle flash		N/K	1-Dec, 17:20
	3-5km N	Recorded	2	Projectile	W to E	N/K	1-Dec, 17:20
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	1-Dec, 17:20
	3-5km N	Recorded	1	Projectile	W to E	N/K	1-Dec, 17:21
	3-5km NNE	Recorded	9	Projectile	ESE to WNW	N/K	1-Dec, 17:21
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	1-Dec, 17:21
	3-5km N	Recorded	1	Projectile	W to E	N/K	1-Dec, 17:22
	3-5km NNE	Recorded	1	Muzzle flash		N/K	1-Dec, 17:24
	3-5km NNE	Recorded	1	Projectile	SE to NW	N/K	1-Dec, 17:24
	3-5km NNE	Recorded	22	Projectile	ESE to WNW	N/K	1-Dec, 17:30
	3-5km NNE	Recorded	2	Projectile	ESE to WNW	N/K	1-Dec, 17:35
	3-5km N	Recorded	18	Projectile	ESE to WNW	N/K	1-Dec, 17:38
SMM camera in Svitlodarsk (government-controlled, 57km NE of Donetsk)	4-6km ESE	Recorded	20	Projectile	S to N	N/K	30-Nov, 18:39
	4-6km ESE	Recorded	1	Explosion	Impact	N/K	30-Nov, 18:39
	4-6km ESE	Recorded	3	Projectile	S to N	N/K	30-Nov, 18:40
	4-6km SE	Recorded	1	Projectile	S to N	N/K	30-Nov, 18:50
	3-6km ESE	Recorded	1	Projectile	NNW to SSE	N/K	30-Nov, 22:33
SE part of Avdiivka (government-controlled, 17km N of Donetsk)	3-4km ENE	Heard	1	Explosion	Undetermined	N/K	1-Dec, 08:56
	3-4km ENE	Heard	1	Shot		HMG	1-Dec, 09:07
	3-4km ENE	Heard	1	Burst		HMG	1-Dec, 09:07
About 4km NW of Debaltseve (non-government-controlled, 58km NE of Donetsk)	4-5km W	Heard	2	Explosion	Undetermined	N/K	1-Dec, 13:30
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	2-3km SE	Heard	1	Explosion	Undetermined	N/K	1-Dec, 08:58
Svitlodarsk (government-controlled, 57km NE of Donetsk)	2-3km SW	Heard	5	Burst		Small arms	1-Dec, 15:44
S edge of Zolote disengagement area (58km W of Luhansk)	3-4km NNE	Heard	1	Burst	Assessed as outside the Zolote disengagement area	Small arms	1-Dec, 11:15
Zolote-5/Mykhailivka (non-government-controlled, 58km W of Luhansk)	1-2km NNE	Heard	5	Shot	Assessed as outside the Zolote disengagement area	Small arms	1-Dec, 12:04-12:08