

Table of ceasefire violations as of 8 November 2019¹

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date and time
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	1-2km SE	Recorded	8	Projectile	NE to SW	N/K	7-Nov, 18:45
	1-2km SE	Recorded	2	Projectile	NE to SW	N/K	8-Nov, 02:25
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	300-500m SSW	Recorded	1	Muzzle flash		N/K	7-Nov, 21:01
	300-800m SSW	Recorded	2	Projectile	WNW to ESE	N/K	7-Nov, 21:01
	0.7-2km S	Recorded	11	Explosion	Undetermined	N/K	7-Nov, 21:19
	0.7-1km S	Recorded	1	Explosion	Undetermined	N/K	7-Nov, 21:42
	300-500m SSW	Recorded	11	Muzzle flash		N/K	7-Nov, 21:42
	2-3km SSW	Recorded	2	Explosion	Undetermined	N/K	7-Nov, 22:16
	0.7-1km SSW	Recorded	1	Projectile	SW to NE	N/K	7-Nov, 22:16
	0.7-1km SSW	Recorded	1	Explosion	Airburst	N/K	7-Nov, 22:16
	300-500m SSW	Recorded	1	Muzzle flash		N/K	7-Nov, 22:20
	300-600m SSW	Recorded	1	Projectile	WNW to ESE	N/K	7-Nov, 22:20
	500-700m SSE	Recorded	1	Explosion	Undetermined	N/K	7-Nov, 22:20
	300-500m SSW	Recorded	33	Muzzle flash		N/K	7-Nov, 22:21
	300-500m SSW	Recorded	5	Muzzle flash		N/K	7-Nov, 22:22
SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk)	3-5km ESE	Recorded	1	Explosion	Undetermined	N/K	7-Nov, 19:24
	3-5km ESE	Recorded	1	Projectile	S to N	N/K	7-Nov, 19:25
	3-5km SE	Recorded	5	Projectile	S to N	N/K	7-Nov, 22:27
	3-5km SE	Recorded	2	Projectile	In vertical flight	N/K	7-Nov, 22:27
	3-5km E	Recorded	4	Projectile	N to S	N/K	7-Nov, 22:32
	3-5km SE	Recorded	8	Projectile	SW to NE	N/K	8-Nov, 01:06
	3-5km SE	Recorded	1	Projectile	SW to NE	N/K	8-Nov, 01:23
	3-5km SE	Recorded	7	Projectile	NE to SW	N/K	8-Nov, 01:39
	3-5km SE	Recorded	2	Projectile	In vertical flight	N/K	8-Nov, 01:42
	4-6km SE	Recorded	7	Projectile	SW to NE	N/K	8-Nov, 02:07
	4-6km SE	Recorded	1	Projectile	NE to SW	N/K	8-Nov, 02:09
	4-6km ESE	Recorded	1	Muzzle flash		N/K	8-Nov, 02:10
	4-6km SE	Recorded	1	Projectile	NE to SW	N/K	8-Nov, 02:10
	4-6km SE	Recorded	3	Projectile	NE to SW	N/K	8-Nov, 02:10
	4-6km SE	Recorded	5	Projectile	SW to NE	N/K	8-Nov, 03:07
	4-6km ESE	Recorded	1	Projectile	S to N	N/K	8-Nov, 03:23
	4-6km SE	Recorded	1	Projectile	SW to NE	N/K	8-Nov, 03:54
	4-6km SE	Recorded	2	Projectile	SW to NE	N/K	8-Nov, 04:34
	4-6km SE	Recorded	4	Projectile	SW to NE	N/K	8-Nov, 04:36
	4-6km SE	Recorded	7	Projectile	SW to NE	N/K	8-Nov, 04:40
	4-6km SE	Recorded	1	Projectile	SW to NE	N/K	8-Nov, 04:41
	4-6km ESE	Recorded	1	Projectile	In vertical flight	N/K	8-Nov, 04:46
	4-6km SE	Recorded	2	Projectile	SW to NE	N/K	8-Nov, 04:47
4-6km E	Recorded	1	Explosion	Undetermined	N/K	7-Nov, 22:44	

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.

SMM camera E of Lomakyne (government-controlled, 90km S of Donetsk)	4-6km E	Recorded	2	Explosion	Undetermined	N/K	7-Nov, 22:50
	4-6km E	Recorded	1	Muzzle flash		N/K	7-Nov, 23:09
	4-6km E	Recorded	1	Explosion	Undetermined	N/K	7-Nov, 23:14
	4-6km E	Recorded	1	Muzzle flash		N/K	7-Nov, 23:18
	4-6km E	Recorded	1	Projectile	N to S	N/K	7-Nov, 23:18
	4-6km E	Recorded	1	Explosion	Undetermined	N/K	7-Nov, 23:18
	4-6km E	Recorded	3	Projectile	N to S	N/K	7-Nov, 23:21
	4-6km E	Recorded	2	Muzzle flash		N/K	7-Nov, 23:21
	4-6km E	Recorded	1	Explosion	Undetermined	N/K	7-Nov, 23:22
	4-6km E	Recorded	1	Projectile	N to S	N/K	7-Nov, 23:22
	4-6km E	Recorded	2	Muzzle flash		N/K	7-Nov, 23:22
	4-6km E	Recorded	2	Projectile	N to S	N/K	7-Nov, 23:23
	4-6km E	Recorded	1	Projectile	S to N	N/K	7-Nov, 23:23
	4-6km E	Recorded	1	Explosion	Undetermined	N/K	7-Nov, 23:23
	4-6km E	Recorded	2	Muzzle flash		N/K	7-Nov, 23:23
	4-6km E	Recorded	3	Muzzle flash		N/K	7-Nov, 23:24
	4-6km E	Recorded	2	Projectile	N to S	N/K	7-Nov, 23:25
	4-6km E	Recorded	1	Projectile	N to S	N/K	7-Nov, 23:26
	4-6km E	Recorded	1	Muzzle flash		N/K	7-Nov, 23:26
	4-6km E	Recorded	1	Illumination flare	In vertical flight	N/K	7-Nov, 23:27
	4-6km E	Recorded	1	Explosion	Undetermined	N/K	7-Nov, 23:29
	4-6km ENE	Recorded	1	Projectile	SW to NE	N/K	7-Nov, 23:30
	4-6km ENE	Recorded	1	Muzzle flash		N/K	7-Nov, 23:30
	4-6km ENE	Recorded	2	Projectile	WNW to ESE	N/K	7-Nov, 23:31
	4-6km ENE	Recorded	1	Projectile	N to S	N/K	7-Nov, 23:31
	4-6km E	Recorded	1	Illumination flare	In vertical flight	N/K	7-Nov, 23:31
	4-6km E	Recorded	1	Explosion	Undetermined	N/K	7-Nov, 23:31
	4-6km ENE	Recorded	1	Projectile	N to S	N/K	7-Nov, 23:35
	4-6km E	Recorded	1	Muzzle flash		N/K	7-Nov, 23:36
	4-6km E	Recorded	4	Projectile	N to S	N/K	7-Nov, 23:37
	4-6km ENE	Recorded	4	Projectile	N to S	N/K	7-Nov, 23:38
	4-6km E	Recorded	1	Explosion	Undetermined	N/K	7-Nov, 23:39
4-6km E	Recorded	1	Illumination flare	In vertical flight	N/K	7-Nov, 23:40	
4-6km E	Recorded	1	Illumination flare	In vertical flight	N/K	7-Nov, 23:44	
4-6km E	Recorded	1	Explosion	Undetermined	N/K	7-Nov, 23:45	
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	2-5km ENE	Recorded	6	Projectile	N to S	N/K	7-Nov, 23:13
	2-5km ENE	Recorded	8	Projectile	N to S	N/K	7-Nov, 23:14
SMM camera in Petrivske (non-government-controlled, 41km S of Donetsk)	0.5-1km NNE	Recorded	1	Muzzle flash	Assessed as outside the disengagement area	N/K	25-Oct, 22:15
SMM camera 1km SW of Shyrokyne	3-5km N	Recorded	1	Projectile	W to E	N/K	7-Nov, 18:15
	3-5km N	Recorded	1	Muzzle flash		N/K	7-Nov, 18:15
	3-5km N	Recorded	1	Projectile	W to E	N/K	7-Nov, 18:15

(government-controlled, 100km S of Donetsk)	3-5km N	Recorded	8	Projectile	W to E	N/K	7-Nov, 18:16
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	7-Nov, 18:16
	3-5km N	Recorded	7	Projectile	W to E	N/K	7-Nov, 18:17
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	7-Nov, 18:17
	3-5km N	Recorded	3	Projectile	W to E	N/K	7-Nov, 18:18
	3-5km N	Recorded	7	Projectile	W to E	N/K	7-Nov, 18:19
	3-5km N	Recorded	2	Explosion	Undetermined	N/K	7-Nov, 18:19
	3-5km N	Recorded	2	Projectile	W to E	N/K	7-Nov, 18:20
	3-5km N	Recorded	2	Explosion	Undetermined	N/K	7-Nov, 18:20
	1-3km NNE	Recorded	2	Projectile	E to W	N/K	7-Nov, 18:22
	3-5km N	Recorded	2	Projectile	W to E	N/K	7-Nov, 18:31
	3-5km N	Recorded	4	Projectile	E to W	N/K	7-Nov, 18:31
	3-5km N	Recorded	4	Projectile	W to E	N/K	7-Nov, 18:32
	3-5km N	Recorded	2	Projectile	In vertical flight	N/K	7-Nov, 18:32
	3-5km N	Recorded	3	Explosion	Undetermined	N/K	7-Nov, 18:33
	3-5km N	Recorded	2	Projectile	E to W	N/K	7-Nov, 18:34
	3-5km N	Recorded	3	Explosion	Undetermined	N/K	7-Nov, 18:38
	3-5km N	Recorded	1	Projectile	E to W	N/K	7-Nov, 18:38
	3-5km N	Recorded	1	Muzzle flash		N/K	7-Nov, 18:46
	3-5km N	Recorded	2	Projectile	E to W	N/K	7-Nov, 18:46
	3-5km N	Recorded	33	Projectile	W to E	N/K	7-Nov, 18:47
	3-5km N	Recorded	1	Projectile	W to E	N/K	7-Nov, 18:47
	3-5km N	Recorded	1	Explosion	Impact	N/K	7-Nov, 18:47
	3-5km N	Recorded	9	Projectile	W to E	N/K	7-Nov, 18:49
	3-5km N	Recorded	3	Explosion	Undetermined	N/K	7-Nov, 19:03
	3-5km N	Recorded	3	Projectile	W to E	N/K	7-Nov, 19:03
	3-5km N	Recorded	3	Projectile	W to E	N/K	7-Nov, 19:04
	3-5km N	Recorded	4	Explosion	Undetermined	N/K	7-Nov, 19:04
	3-5km N	Recorded	3	Explosion	Undetermined	N/K	7-Nov, 19:05
	3-5km N	Recorded	2	Projectile	W to E	N/K	7-Nov, 19:06
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	7-Nov, 19:06
	3-5km N	Recorded	5	Explosion	Undetermined	N/K	7-Nov, 19:07
	3-5km N	Recorded	1	Projectile	W to E	N/K	7-Nov, 19:08
	3-5km N	Recorded	4	Explosion	Undetermined	N/K	7-Nov, 19:08
	3-5km NNE	Recorded	3	Projectile	W to E	N/K	7-Nov, 19:09
	3-5km N	Recorded	1	Muzzle flash		N/K	7-Nov, 19:09
	3-5km N	Recorded	1	Projectile	W to E	N/K	7-Nov, 19:10
	3-5km N	Recorded	9	Projectile	W to E	N/K	7-Nov, 19:11
	3-5km N	Recorded	1	Projectile	SW to NE	N/K	7-Nov, 19:11
	3-5km N	Recorded	3	Projectile	W to E	N/K	7-Nov, 19:12
	3-5km N	Recorded	1	Projectile	W to E	N/K	7-Nov, 19:13
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	7-Nov, 19:13
	3-5km NNE	Recorded	2	Projectile	W to E	N/K	7-Nov, 19:14
	3-5km NNE	Recorded	1	Projectile	E to W	N/K	7-Nov, 19:16
3-5km N	Recorded	3	Explosion	Undetermined	N/K	7-Nov, 19:17	
3-5km N	Recorded	6	Projectile	E to W	N/K	7-Nov, 19:17	
3-5km N	Recorded	3	Projectile	W to E	N/K	7-Nov, 19:17	
3-5km N	Recorded	10	Projectile	W to E	N/K	7-Nov, 19:18	
3-5km NNE	Recorded	2	Projectile	W to E	N/K	7-Nov, 19:18	
3-5km N	Recorded	6	Projectile	W to E	N/K	7-Nov, 19:19	
3-5km N	Recorded	2	Explosion	Undetermined	N/K	7-Nov, 19:20	

	3-5km N	Recorded	1	Explosion	Undetermined	N/K	7-Nov, 19:22
	3-5km N	Recorded	1	Projectile	W to E	N/K	7-Nov, 19:22
	3-5km N	Recorded	1	Projectile	E to W	N/K	7-Nov, 19:22
	3-5km N	Recorded	2	Explosion	Undetermined	N/K	7-Nov, 19:22
	3-5km N	Recorded	1	Projectile	W to E	N/K	7-Nov, 19:25
	3-5km N	Recorded	3	Projectile	W to E	N/K	7-Nov, 19:26
	3-5km N	Recorded	2	Explosion	Undetermined	N/K	7-Nov, 19:29
	3-5km N	Recorded	1	Projectile	E to W	N/K	7-Nov, 19:29
	3-5km N	Recorded	2	Projectile	W to E	N/K	7-Nov, 19:33
	3-5km N	Recorded	2	Projectile	W to E	N/K	7-Nov, 19:41
	3-5km N	Recorded	1	Projectile	W to E	N/K	7-Nov, 19:41
	3-5km N	Recorded	2	Projectile	W to E	N/K	7-Nov, 19:42
	3-5km N	Recorded	2	Projectile	E to W	N/K	7-Nov, 19:42
	3-5km NNE	Recorded	4	Projectile	SW to NE	N/K	7-Nov, 20:24
	1-2km NNE	Recorded	2	Explosion	Undetermined	N/K	7-Nov, 20:24
	3-5km NNE	Recorded	5	Projectile	W to E	N/K	7-Nov, 20:27
	3-5km N	Recorded	1	Projectile	E to W	N/K	7-Nov, 20:53
	3-5km N	Recorded	2	Projectile	W to E	N/K	7-Nov, 20:57
	3-5km N	Recorded	1	Projectile	S to N	N/K	7-Nov, 20:57
	3-5km N	Recorded	7	Projectile	SW to NE	N/K	7-Nov, 20:58
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	7-Nov, 21:12
	3-5km N	Recorded	4	Projectile	S to N	N/K	7-Nov, 21:31
	3-5km N	Recorded	4	Projectile	S to N	N/K	7-Nov, 21:33
	3-5km N	Recorded	2	Projectile	W to E	N/K	7-Nov, 21:33
	3-5km N	Recorded	1	Projectile	S to N	N/K	7-Nov, 22:17
	3-5km N	Recorded	2	Projectile	S to N	N/K	7-Nov, 22:18
	3-5km NNE	Recorded	1	Projectile	W to E	N/K	7-Nov, 22:25
	3-5km NNE	Recorded	1	Projectile	W to E	N/K	7-Nov, 22:26
	3-5km N	Recorded	3	Projectile	S to N	N/K	7-Nov, 22:33
	3-5km N	Recorded	5	Projectile	W to E	N/K	7-Nov, 22:34
	3-5km N	Recorded	1	Muzzle flash		N/K	7-Nov, 23:11
	3-5km N	Recorded	1	Projectile	SW to NE	N/K	7-Nov, 23:11
	3-5km N	Recorded	1	Projectile	SW to NE	N/K	7-Nov, 23:12
	3-5km N	Recorded	1	Projectile	W to E	N/K	7-Nov, 23:12
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	7-Nov, 23:12
	3-5km N	Recorded	2	Projectile	S to N	N/K	7-Nov, 23:13
	3-5km N	Recorded	1	Projectile	W to E	N/K	7-Nov, 23:14
	3-5km N	Recorded	1	Projectile	SW to NE	N/K	7-Nov, 23:18
	3-5km N	Recorded	1	Muzzle flash		N/K	7-Nov, 23:21
	3-5km N	Recorded	1	Projectile	W to E	N/K	7-Nov, 23:21
	3-5km N	Recorded	3	Projectile	W to E	N/K	7-Nov, 23:21
	3-5km N	Recorded	1	Projectile	S to N	N/K	7-Nov, 23:21
	5-7km NNW	Recorded	2	Explosion	Undetermined	N/K	7-Nov, 23:22
	3-5km N	Recorded	2	Projectile	W to E	N/K	7-Nov, 23:23
	3-5km N	Recorded	1	Projectile	SW to NE	N/K	7-Nov, 23:24
	3-5km N	Recorded	1	Projectile	S to N	N/K	7-Nov, 23:25
	3-5km N	Recorded	1	Projectile	S to N	N/K	7-Nov, 23:36
	3-5km N	Recorded	2	Projectile	SW to NE	N/K	7-Nov, 23:37
	3-5km N	Recorded	1	Projectile	S to N	N/K	7-Nov, 23:38
	4-7km N	Recorded	2	Explosion	Undetermined	N/K	7-Nov, 23:40
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	7-Nov, 23:44

	3-5km N	Recorded	4	Projectile	SW to NE	N/K	8-Nov, 00:00
	3-5km N	Recorded	4	Projectile	SW to NE	N/K	8-Nov, 00:10
	3-5km N	Recorded	1	Projectile	W to E	N/K	8-Nov, 00:28
	3-5km N	Recorded	4	Projectile	W to E	N/K	8-Nov, 00:30
	3-5km N	Recorded	2	Projectile	SW to NE	N/K	8-Nov, 00:31
	3-5km NNW	Recorded	1	Projectile	W to E	N/K	8-Nov, 00:31
	3-5km NNE	Recorded	4	Projectile	SE to NW	N/K	8-Nov, 00:33
	3-5km N	Recorded	11	Projectile	W to E	N/K	8-Nov, 01:07
	3-5km N	Recorded	17	Projectile	SW to NE	N/K	8-Nov, 01:09
	3-5km N	Recorded	1	Projectile	SW to NE	N/K	8-Nov, 01:40
	3-5km N	Recorded	1	Projectile	SW to NE	N/K	8-Nov, 01:41
	3-5km N	Recorded	1	Projectile	SW to NE	N/K	8-Nov, 01:43
	3-5km N	Recorded	2	Projectile	SW to NE	N/K	8-Nov, 01:44
	3-5km N	Recorded	3	Projectile	SW to NE	N/K	8-Nov, 02:03
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	8-Nov, 02:03
	3-5km N	Recorded	3	Muzzle flash		N/K	8-Nov, 02:05
	3-5km N	Recorded	3	Projectile	SW to NE	N/K	8-Nov, 02:05
	3-5km N	Recorded	7	Projectile	SW to NE	N/K	8-Nov, 02:07
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	8-Nov, 02:07
	3-5km N	Recorded	2	Projectile	S to N	N/K	8-Nov, 02:08
	3-5km N	Recorded	2	Projectile	SE to NW	N/K	8-Nov, 02:15
Debaltseve (non-government-controlled, 58km NE of Donetsk)	5-7km NW	Heard	17	Explosion	Undetermined	N/K	7-Nov, 16:04-16:35
	5-7km NW	Heard	1	Explosion	Undetermined	N/K	7-Nov, 17:00
NW part of Novohryhorivka (non-government-controlled, 61km NE of Donetsk)	3-5km SE	Heard	1	Explosion	Undetermined	N/K	8-Nov, 09:28
	1-2km NW	Heard	3	Shot		Small arms	8-Nov, 09:47-09:54
Oleksandrivka (non-government-controlled, 20km SW of Donetsk)	2-4km NW	Heard	1	Explosion	Undetermined	N/K	8-Nov, 09:00
	2km NW	Heard	2	Explosion	Undetermined	N/K	8-Nov, 09:15
About 1km N of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	1-2km NNW	Heard	20	Shot		Small arms	8-Nov, 12:50
	1-2km NNW	Heard	2	Burst		Small arms	8-Nov, 12:50
	2-3km NNW	Heard	1	Explosion	Undetermined	N/K	8-Nov, 12:50
	1-2km N	Heard	1	Shot		Small arms	8-Nov, 13:00
	1-2km N	Heard	1	Burst		Small arms	8-Nov, 13:00
	1-2km W	Heard	7	Burst		Small arms	8-Nov, 13:25
	3-4km SSW	Heard	1	Explosion	Undetermined	N/K	8-Nov, 13:40
	2-3km SW	Heard	1	Explosion	Undetermined	N/K	8-Nov, 13:50
	1-2km NW	Heard	4	Shot		Small arms	8-Nov, 13:53
About 2km N of Petrivske (non-	1-3km SE	Heard	1	Shot	Assessed as outside the	Small arms	8-Nov, 10:15

government-controlled, 41km S of Donetsk)					disengagement area		
	1-3km SE	Heard	1	Shot	Assessed as outside the disengagement area	Small arms	8-Nov, 11:35
About 2km NE of Bohdanivka (government-controlled, 41km SW of Donetsk)	1-2km NE	Heard	2	Shot	Assessed as outside the Petrivske disengagement area	Small arms	8-Nov, 09:09-09:11
	2-3km NW	Heard	8	Shot	Assessed as outside the Petrivske disengagement area	Small arms	8-Nov, 09:09-09:11
About 2km SW of Pyshevyk (government-controlled, 84km S of Donetsk)	N/K SE	Heard	3	Explosion	Undetermined	N/K	8-Nov, 09:35-09:45
	N/K SE	Heard	1	Burst		Small arms	8-Nov, 09:35-09:45
	2-3km SE	Heard	6	Shot		Small arms	8-Nov, 10:25
About 1km N of Pyshevyk (government-controlled, 84km S of Donetsk)	2-3km S	Heard	5	Explosion	Undetermined	N/K	8-Nov, 10:45
N part of Sakhanka (non-government-controlled, 97km south of Donetsk)	0.6-1km W	Heard	2	Shot		Small arms	8-Nov, 13:10-13:14
	2-3km W	Heard	2	Explosion	Undetermined	N/K	8-Nov, 13:13
	2-3km SW	Heard	1	Shot		Small arms	8-Nov, 13:19
About 1km N of Azov (formerly Dzerzhynske, non-government-controlled, 96km south of Donetsk)	2-3km S	Heard	1	Burst		HMG	8-Nov, 13:48
Svitlodarsk (government-controlled, 57km NE of Donetsk)	4-5km S	Heard	19	Burst		HMG	7-Nov, 20:00-20:05
	4-5km S	Heard	1	Explosion	Undetermined	N/K	7-Nov, 23:44
	4-5km S	Heard	1	Explosion	Undetermined	N/K	8-Nov, 14:07
	4-5km S	Heard	1	Explosion	Undetermined	N/K	8-Nov, 14:10
	4-5km SE	Heard	2	Explosion	Undetermined	N/K	8-Nov, 14:23-14:26
	4-5km SW	Heard	4	Explosion	Undetermined	N/K	8-Nov, 14:43-14:47
	4-5km SW	Heard	3	Explosion	Undetermined	N/K	8-Nov, 15:05-15:09
	4-5km SW	Heard	1	Explosion	Undetermined	N/K	8-Nov, 15:49
	4-5km SW	Heard	12	Burst		HMG	8-Nov, 16:16-16:21
Horlivka (non-government-controlled, 39km NE of Donetsk)	4-6km WNW	Heard	4	Explosion	Undetermined	N/K	7-Nov, 22:26-22:30
	5-6km W	Heard	3	Explosion	Undetermined	N/K	8-Nov, 11:05
	5-6km W	Heard	4	Explosion	Undetermined	N/K	8-Nov, 11:12-11:13
	5-6km W	Heard	4	Explosion	Undetermined	N/K	8-Nov, 11:45

	4-5km SW	Heard	4	Explosion	Undetermined	N/K	8-Nov, 12:22
	4-6km W	Heard	2	Explosion	Undetermined	N/K	8-Nov, 16:40-16:41
	4-6km W	Heard	3	Burst		HMG	8-Nov, 16:41
	4-5km SW	Heard	3	Explosion	Undetermined	N/K	8-Nov, 16:42
	4-5km SW	Heard	6	Burst		HMG	8-Nov, 16:45-16:46
	4-6km W	Heard	2	Explosion	Undetermined	N/K	8-Nov, 16:47
	4-6km W	Heard	6	Burst		HMG	8-Nov, 16:48-16:50
	4-6km W	Heard	2	Explosion	Undetermined	N/K	8-Nov, 16:50
NW edge of Horlivka (non-government controlled, 39km NE of Donetsk)	1-2km W	Heard	6	Burst		HMG	8-Nov, 13:15
	1-2km W	Heard	20	Shot		Small arms	8-Nov, 13:15
N edge of Horlivka (non-government-controlled, 39 km NE of Donetsk)	2-3km N	Heard	15	Shot		Small arms	8-Nov, 09:14
	2-3km N	Heard	3	Burst		HMG	8-Nov, 09:14
	5-7km W	Heard	1	Explosion	Undetermined	N/K	8-Nov, 09:19
	4-6km NW	Heard	3	Explosion	Undetermined	N/K	8-Nov, 11:24
	5-6km W	Heard	1	Explosion	Undetermined	N/K	8-Nov, 11:27
E edge of Zalizne (formerly Artemove, government-controlled, 42km NE of Donetsk)	3-5km N	Heard	2	Explosion	Undetermined	N/K	8-Nov, 10:40-11:06
	1-2km N	Heard	20	Burst		HMG	8-Nov, 10:40-11:06
	1-2km N	Heard	60	Shots and bursts		Small arms	8-Nov, 10:40-11:06
Fedorivka (non-government-controlled, 34km NE of Donetsk)	2-3km NNW	Heard	4	Explosion	Undetermined	N/K	8-Nov, 11:20
	2-3km NNW	Heard	4	Explosion	Undetermined	N/K	8-Nov, 11:45
About 4km SE of Holmivskiyi (non-government-controlled, 49km NE of Donetsk)	3-5km NW	Heard	6	Explosion	Undetermined	N/K	8-Nov, 11:44-11:48
	3-5km NW	Heard	3	Burst		HMG	8-Nov, 11:44-11:48
	3-5km NW	Heard	8	Shot		Small arms	8-Nov, 11:44-11:48
Holmivskiyi (non-government-controlled, 49km NE of Donetsk)	2-4km NE	Heard	2	Burst		HMG	8-Nov, 12:15
	4-6km NE	Heard	8	Explosion	Undetermined	N/K	8-Nov, 12:21-12:22
Troitske (government-controlled, 30km N of Donetsk)	3-5km SSW	Heard	8	Explosion	Undetermined	N/K	8-Nov, 11:24-11:46
About 3km E of Vesela Hora (non-government-controlled, 16km N of Luhansk)	20km N	Heard	4	Explosion	Undetermined	N/K	8-Nov, 11:25-11:27

Shchastia (government- controlled, 20km N of Luhansk)	6-8km WNW	Heard	4	Explosion	Undetermined	N/K	8-Nov, 11:06- 11:09
	6-8km SSW	Heard	30	Explosion	Undetermined	N/K	8-Nov, 11:30- 11:43
	6-8km SSW	Heard	3	Explosion	Undetermined	N/K	8-Nov, 11:48- 11:51
	200-250m E	Heard	1	Shot		Small arms	8-Nov, 11:51
500m NW of Khrystove (non- government- controlled, 18km N of Luhansk)	2-3km SE	Heard	26	Shot	Assessed as aimed at a SMM mini- UAV	Small arms	8-Nov, 11:56- 11:58
3km N of Pervomaisk (non- government- controlled, 64km W of Luhansk)	6-8km SW	Heard	2	Explosion	Undetermined	N/K	8-Nov, 13:58