

**Table of ceasefire violations as of 25 November 2019<sup>9</sup>**

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera in Avdiivka (government-controlled, 17km N of Donetsk)	4-6km ESE	Recorded	1	Projectile	SW to NE	N/K	24-Nov, 18:22
	4-6km ESE	Recorded	1	Explosion	Airburst	N/K	24-Nov, 18:48
	4-6km ESE	Recorded	1	Explosion	Airburst	N/K	24-Nov, 18:52
	4-6km SE	Recorded	1	Explosion	Undetermined	N/K	24-Nov, 19:16
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	3-5km SE	Recorded	10	Projectile	In vertical flight	N/K	25-Nov, 17:10
	3-5km SE	Recorded	12	Projectile	NE to SW	N/K	25-Nov, 17:23
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	1-3km SSW	Recorded	1	Projectile	E to W (also recorded by the Avdiivka camera)	N/K	24-Nov, 18:36
	1-3km SSW	Recorded	1	Projectile	E to W (also recorded by the Avdiivka camera)	N/K	24-Nov, 18:40
	1-3km S	Recorded	1	Illumination flare	Also recorded by the Avdiivka camera	N/K	24-Nov, 18:41
	1-3km SSW	Recorded	1	Explosion	Airburst, also recorded by the Avdiivka camera	N/K	24-Nov, 18:48
	1-3km S	Recorded	2	Explosion	Undetermined, also recorded by the Avdiivka camera	N/K	24-Nov, 18:52
	1-3km S	Recorded	1	Explosion	Undetermined, also recorded by the Avdiivka camera	N/K	24-Nov, 18:53
	0.5-1km SSW	Recorded	3	Projectile	E to W	N/K	24-Nov, 21:23
	500-800m SSW	Recorded	1	Muzzle flash		N/K	24-Nov, 21:34
	500-800m SSW	Recorded	1	Muzzle flash		N/K	24-Nov, 21:36
	0.5-1km SSW	Recorded	1	Projectile	E to W	N/K	24-Nov, 21:42
	1-2km S	Recorded	1	Explosion	Undetermined	N/K	24-Nov, 21:52
	0.5-1km S	Recorded	1	Muzzle flash		N/K	24-Nov, 21:53
	0.5-1km S	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	24-Nov, 21:53
	0.5-1km S	Recorded	1	Projectile	E to W	N/K	24-Nov, 21:54
	1-2km SSW	Recorded	1	Explosion	Undetermined	N/K	24-Nov, 22:05
SMM camera E of Lomakyne (government-controlled, 90km S of Donetsk)	2-4km E	Recorded	1	Projectile	S to N	N/K	25-Nov, 16:48

<sup>9</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.

SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	2-4km ENE	Recorded	1	Explosion	Undetermined	N/K	24-Nov, 22:24
	2-4km E	Recorded	5	Projectile	In vertical flight	N/K	25-Nov, 00:18
SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)	1-2km NNE	Recorded	9	Projectile	WSW to ENE	N/K	24-Nov, 19:44
	1-2km NNE	Recorded	2	Projectile	WSW to ENE	N/K	24-Nov, 19:45
	1-2km NNE	Recorded	2	Projectile	WSW to ENE	N/K	24-Nov, 19:52
	1-2km NNE	Recorded	3	Projectile	WSW to ENE	N/K	24-Nov, 19:53
	2-4km NNE	Recorded	4	Projectile	W to E	N/K	24-Nov, 19:57
	2-4km NNE	Recorded	8	Projectile	W to E	N/K	24-Nov, 19:58
	2-4km NNE	Recorded	12	Projectile	W to E	N/K	24-Nov, 20:01
	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	24-Nov, 20:01
	2-4km NNE	Recorded	10	Projectile	W to E	N/K	24-Nov, 20:02
	2-4km NNE	Recorded	11	Projectile	W to E	N/K	24-Nov, 20:03
	2-4km NNE	Recorded	4	Projectile	W to E	N/K	24-Nov, 20:04
	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	24-Nov, 20:04
	2-4km NNE	Recorded	24	Projectile	W to E	N/K	24-Nov, 20:06
	2-4km NNE	Recorded	4	Explosion	Undetermined	N/K	24-Nov, 20:06
	2-4km NNE	Recorded	16	Projectile	W to E	N/K	24-Nov, 20:07
	2-4km NNE	Recorded	2	Explosion	Undetermined	N/K	24-Nov, 20:07
	2-4km NNE	Recorded	4	Projectile	W to E	N/K	24-Nov, 20:08
	2-4km NNE	Recorded	2	Explosion	Undetermined	N/K	24-Nov, 20:08
	2-4km NNE	Recorded	1	Projectile	W to E	N/K	24-Nov, 20:09
	2-4km NNE	Recorded	2	Explosion	Undetermined	N/K	24-Nov, 20:09
	2-4km NNE	Recorded	2	Projectile	W to E	N/K	24-Nov, 20:10
	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	24-Nov, 20:10
	2-4km NNE	Recorded	7	Projectile	W to E	N/K	24-Nov, 20:11
	2-4km NNE	Recorded	2	Explosion	Undetermined	N/K	24-Nov, 20:11
	2-4km NNE	Recorded	5	Projectile	W to E	N/K	24-Nov, 20:12
	2-4km NNE	Recorded	16	Projectile	W to E	N/K	24-Nov, 20:14
	2-4km NNE	Recorded	4	Explosion	Undetermined	N/K	24-Nov, 20:14
	2-4km NNE	Recorded	7	Projectile	W to E	N/K	24-Nov, 20:15
	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	24-Nov, 20:15
	2-4km NNE	Recorded	3	Projectile	W to E	N/K	24-Nov, 20:16
	2-4km NNE	Recorded	1	Projectile	W to E	N/K	24-Nov, 20:18
	2-4km NNE	Recorded	3	Projectile	W to E	N/K	24-Nov, 20:20
	2-4km NNE	Recorded	1	Projectile	W to E	N/K	24-Nov, 20:22
	2-4km NNE	Recorded	2	Projectile	W to E	N/K	24-Nov, 20:24
	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	24-Nov, 20:24
	2-4km NNE	Recorded	3	Projectile	W to E	N/K	24-Nov, 20:34
	2-4km NNE	Recorded	4	Explosion	Undetermined	N/K	24-Nov, 20:34
	2-4km NNE	Recorded	6	Projectile	W to E	N/K	24-Nov, 20:35
	2-4km NNE	Recorded	4	Projectile	W to E	N/K	24-Nov, 20:37
	2-4km NNE	Recorded	3	Explosion	Undetermined	N/K	24-Nov, 20:37
2-4km NNE	Recorded	10	Projectile	W to E	N/K	24-Nov, 20:38	
2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	24-Nov, 20:40	
2-4km NNE	Recorded	2	Projectile	W to E	N/K	24-Nov, 20:43	
2-4km NNE	Recorded	6	Projectile	W to E	N/K	24-Nov, 20:44	
2-4km NNE	Recorded	6	Projectile	W to E	N/K	24-Nov, 20:45	
2-4km NNE	Recorded	6	Projectile	W to E	N/K	24-Nov, 20:46	
2-4km NNE	Recorded	2	Explosion	Undetermined	N/K	24-Nov, 20:53	
2-4km NNE	Recorded	5	Projectile	W to E	N/K	24-Nov, 20:54	
2-4km NNE	Recorded	3	Projectile	W to E	N/K	24-Nov, 20:55	
2-4km NNE	Recorded	10	Projectile	W to E	N/K	24-Nov, 21:03	
2-4km NNE	Recorded	4	Projectile	W to E	N/K	24-Nov, 21:04	
2-4km NNE	Recorded	6	Projectile	W to E	N/K	24-Nov, 21:05	

SMM camera 1km SW of Shyrokyne (government-controlled, 100km S of Donetsk)	2-4km NNE	Recorded	7	Projectile	W to E	N/K	24-Nov, 21:06
	2-4km NNE	Recorded	2	Projectile	E to W	N/K	24-Nov, 18:13
	3-5km NNE	Recorded	1	Projectile	In vertical flight	N/K	24-Nov, 18:13
	3-5km N	Recorded	2	Projectile	SE to NW	N/K	24-Nov, 18:14
	4-6km N	Recorded	5	Projectile	SW to NE	N/K	24-Nov, 18:20
	4-6km N	Recorded	9	Projectile	SE to NW	N/K	24-Nov, 18:21
	4-6km N	Recorded	2	Projectile	SE to NW	N/K	24-Nov, 18:22
	4-6km N	Recorded	1	Projectile	SSE to NNW	N/K	24-Nov, 18:36
	4-6km N	Recorded	2	Projectile	SW to NE	N/K	24-Nov, 18:44
	4-6km N	Recorded	11	Projectile	SW to NE	N/K	24-Nov, 18:54
	4-6km N	Recorded	1	Projectile	SW to NE	N/K	24-Nov, 19:17
	4-6km NNE	Recorded	1	Projectile	SE to NW	N/K	24-Nov, 19:20
	4-6km N	Recorded	1	Projectile	SW to NE	N/K	24-Nov, 19:31
	4-6km N	Recorded	7	Projectile	SE to NW	N/K	24-Nov, 19:34
	5-7km N	Recorded	1	Projectile	WSW to ENE	N/K	24-Nov, 19:42
	3-5km NNE	Recorded	1	Projectile	In vertical flight	N/K	24-Nov, 20:42
	5-7km N	Recorded	8	Projectile	WSW to ENE	N/K	24-Nov, 21:31
	5-7km N	Recorded	1	Projectile	WSW to ENE	N/K	24-Nov, 21:32
	4-6km N	Recorded	1	Projectile	ESE to WNW	N/K	24-Nov, 21:32
	4-6km N	Recorded	2	Projectile	ESE to WNW	N/K	24-Nov, 21:33
	5-7km N	Recorded	4	Projectile	ESE to WNW	N/K	24-Nov, 21:41
	5-7km N	Recorded	1	Projectile	WSW to ENE	N/K	24-Nov, 21:41
	5-7km N	Recorded	3	Projectile	ESE to WNW	N/K	24-Nov, 22:08
	5-7km N	Recorded	4	Projectile	SE to NW	N/K	24-Nov, 22:21
	5-7km N	Recorded	3	Projectile	SE to NW	N/K	24-Nov, 22:41
	5-7km N	Recorded	7	Projectile	SE to NW	N/K	24-Nov, 22:53
	5-7km N	Recorded	4	Projectile	WSW to ENE	N/K	24-Nov, 22:55
	5-7km N	Recorded	1	Projectile	ESE to WNW	N/K	24-Nov, 23:14
	3-5km NNE	Recorded	1	Projectile	WSW to ENE	N/K	24-Nov, 23:41
	5-7km N	Recorded	4	Projectile	WSW to ENE	N/K	24-Nov, 23:44
	3-5km NNE	Recorded	1	Projectile	WSW to ENE	N/K	24-Nov, 23:46
	3-5km NNE	Recorded	1	Projectile	WSW to ENE	N/K	24-Nov, 23:48
	5-7km N	Recorded	5	Projectile	ESE to WNW	N/K	24-Nov, 23:49
	3-5km NNE	Recorded	1	Projectile	WSW to ENE	N/K	24-Nov, 23:49
	3-5km NNE	Recorded	2	Projectile	WSW to ENE	N/K	24-Nov, 23:59
	5-7km N	Recorded	7	Projectile	WSW to ENE (also recorded by the Lomakyne camera)	N/K	25-Nov, 00:11
	5-7km N	Recorded	2	Projectile	WSW to ENE (also recorded by the Lomakyne camera)	N/K	25-Nov, 00:24
	5-7km N	Recorded	1	Muzzle flash		N/K	25-Nov, 00:25
	5-7km N	Recorded	1	Projectile	ESE to WNW (subsequent to previous event)	N/K	25-Nov, 00:25
	5-7km N	Recorded	4	Projectile	WSW to ENE (also recorded by the Lomakyne camera)	N/K	25-Nov, 00:29
	5-7km NNE	Recorded	3	Projectile	WSW to ENE	N/K	25-Nov, 00:31
5-7km NNE	Recorded	1	Muzzle flash		N/K	25-Nov, 00:31	
5-7km NNE	Recorded	1	Projectile	WSW to ENE (subsequent to previous event)	N/K	25-Nov, 00:31	
5-7km N	Recorded	4	Projectile	ESE to WNW	N/K	25-Nov, 00:32	

3-5km N	Recorded	4	Projectile	ESE to WNW	N/K	25-Nov, 00:33
5-7km N	Recorded	10	Projectile	ESE to WNW	N/K	25-Nov, 00:35
5-7km N	Recorded	7	Projectile	WSW to ENE	N/K	25-Nov, 00:35
3-5km NNE	Recorded	1	Projectile	ESE to WNW	N/K	25-Nov, 00:35
5-7km N	Recorded	6	Projectile	WSW to ENE	N/K	25-Nov, 00:37
5-7km N	Recorded	2	Projectile	WSW to ENE	N/K	25-Nov, 00:38
3-5km N	Recorded	8	Projectile	ESE to WNW	N/K	25-Nov, 00:49
5-7km N	Recorded	2	Explosion	Undetermined, also recorded by the Lomakyne camera	N/K	25-Nov, 00:53
5-7km N	Recorded	1	Explosion	Undetermined	N/K	25-Nov, 00:56
3-5km N	Recorded	1	Projectile	ESE to WNW	N/K	25-Nov, 00:59
5-7km N	Recorded	2	Projectile	WSW to ENE	N/K	25-Nov, 01:00
3-5km N	Recorded	9	Projectile	ESE to WNW	N/K	25-Nov, 01:07
3-5km N	Recorded	3	Projectile	ESE to WNW	N/K	25-Nov, 01:18
5-7km N	Recorded	4	Projectile	ESE to WNW	N/K	25-Nov, 01:18
5-7km N	Recorded	1	Explosion	Undetermined	N/K	25-Nov, 01:29
3-5km NNE	Recorded	1	Projectile	W to E	N/K	25-Nov, 01:47
5-7km N	Recorded	2	Projectile	ESE to WNW	N/K	25-Nov, 01:52
3-5km N	Recorded	3	Muzzle flash		N/K	25-Nov, 02:05
3-5km N	Recorded	1	Projectile	ESE to WNW	N/K	25-Nov, 02:05
3-5km N	Recorded	1	Projectile	WSW to ENE	N/K	25-Nov, 02:06
3-5km N	Recorded	1	Projectile	WSW to ENE	N/K	25-Nov, 02:33
3-5km N	Recorded	1	Projectile	ESE to WNW	N/K	25-Nov, 02:42
5-7km N	Recorded	1	Explosion	Undetermined	N/K	25-Nov, 02:43
5-7km N	Recorded	1	Projectile	ESE to WNW	N/K	25-Nov, 02:43
3-5km N	Recorded	1	Projectile	ESE to WNW	N/K	25-Nov, 02:43
3-5km NNE	Recorded	7	Projectile	WSW to ENE	N/K	25-Nov, 02:46
3-5km N	Recorded	3	Projectile	ESE to WNW	N/K	25-Nov, 02:50
5-7km N	Recorded	6	Projectile	WSW to ENE	N/K	25-Nov, 03:19
5-7km N	Recorded	11	Projectile	WSW to ENE	N/K	25-Nov, 03:24
5-7km N	Recorded	1	Projectile	WSW to ENE	N/K	25-Nov, 03:35
5-7km N	Recorded	2	Projectile	WSW to ENE	N/K	25-Nov, 03:39
5-7km N	Recorded	2	Projectile	WSW to ENE	N/K	25-Nov, 03:43
5-7km N	Recorded	5	Projectile	WSW to ENE (also recorded by the Lomakyne camera)	N/K	25-Nov, 04:15
5-7km N	Recorded	4	Projectile	WSW to ENE	N/K	25-Nov, 04:16
5-7km N	Recorded	4	Projectile	WSW to ENE	N/K	25-Nov, 04:22
5-7km N	Recorded	6	Projectile	WSW to ENE	N/K	25-Nov, 04:47
5-7km N	Recorded	5	Projectile	WSW to ENE	N/K	25-Nov, 04:50
5-7km N	Recorded	4	Projectile	WSW to ENE (also recorded by the Lomakyne camera)	N/K	25-Nov, 04:58
5-7km N	Recorded	2	Projectile	WSW to ENE	N/K	25-Nov, 04:58
5-7km N	Recorded	4	Projectile	WSW to ENE	N/K	25-Nov, 04:59
5-7km N	Recorded	2	Projectile	WSW to ENE	N/K	25-Nov, 05:00
3-5km N	Recorded	3	Projectile	ESE to WNW	N/K	25-Nov, 05:28
3-5km N	Recorded	2	Projectile	ESE to WNW	N/K	25-Nov, 05:30
3-5km N	Recorded	3	Projectile	ESE to WNW	N/K	25-Nov, 05:33
3-5km N	Recorded	4	Projectile	ESE to WNW	N/K	25-Nov, 05:34
3-5km N	Recorded	3	Projectile	W to E	N/K	25-Nov, 16:34
3-5km N	Recorded	6	Projectile	WSW to ENE	N/K	25-Nov, 16:35
3-5km N	Recorded	4	Projectile	E to W	N/K	25-Nov, 16:38
3-5km N	Recorded	2	Projectile	SW to NE	N/K	25-Nov, 16:39

	3-5km N	Recorded	2	Projectile	SE to NW	N/K	25-Nov, 16:40
	3-5km N	Recorded	1	Projectile	ESE to WNW	N/K	25-Nov, 16:41
	3-5km N	Recorded	3	Projectile	ESE to WNW	N/K	25-Nov, 16:42
	3-5km N	Recorded	2	Projectile	SE to NW	N/K	25-Nov, 16:43
	3-5km N	Recorded	3	Explosion	Undetermined	N/K	25-Nov, 16:48
	3-5km N	Recorded	5	Projectile	ESE to WNW	N/K	25-Nov, 16:48
	3-5km N	Recorded	2	Projectile	ESE to WNW	N/K	25-Nov, 16:49
	3-5km N	Recorded	4	Projectile	ESE to WNW	N/K	25-Nov, 16:50
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	25-Nov, 16:50
	3-5km N	Recorded	1	Projectile	E to W	N/K	25-Nov, 16:51
	3-5km NNE	Recorded	1	Explosion	Undetermined	N/K	25-Nov, 16:52
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	25-Nov, 16:53
	3-5km N	Recorded	2	Projectile	E to W	N/K	25-Nov, 16:53
	3-5km N	Recorded	7	Projectile	ESE to WNW	N/K	25-Nov, 16:54
	3-5km N	Recorded	2	Projectile	E to W	N/K	25-Nov, 17:00
	3-5km N	Recorded	2	Projectile	E to W	N/K	25-Nov, 17:01
	3-5km N	Recorded	2	Projectile	W to E	N/K	25-Nov, 17:03
	3-5km N	Recorded	1	Projectile	W to E	N/K	25-Nov, 17:04
	3-5km NNE	Recorded	6	Projectile	E to W	N/K	25-Nov, 17:18
	3-5km NNE	Recorded	4	Projectile	E to W	N/K	25-Nov, 17:22
	3-5km NE	Recorded	1	Projectile	E to W	N/K	25-Nov, 17:47
	3-5km N	Recorded	3	Projectile	W to E	N/K	25-Nov, 17:50
	3-5km NNE	Recorded	4	Projectile	E to W	N/K	25-Nov, 17:52
	3-5km N	Recorded	6	Projectile	E to W	N/K	25-Nov, 17:58
	3-5km N	Recorded	3	Projectile	W to E	N/K	25-Nov, 18:03
	3-5km NNE	Recorded	1	Explosion	Undetermined	N/K	25-Nov, 18:05
	3-5km N	Recorded	2	Projectile	E to W	N/K	25-Nov, 18:05
	3-5km NNE	Recorded	8	Projectile	E to W	N/K	25-Nov, 18:07
	3-5km N	Recorded	2	Projectile	W to E	N/K	25-Nov, 18:08
SE edge of Avdiivka (government-controlled, 17km N of Donetsk)	2-3km S	Heard	1	Explosion	Undetermined	N/K	25-Nov, 09:50
E edge of Avdiivka (government-controlled, 17km N of Donetsk)	2km ESE	Heard	1	Explosion	Undetermined	N/K	25-Nov, 11:16
	2km ENE	Heard	2	Explosion	Undetermined	N/K	25-Nov, 11:33
Marinka (government-controlled, 23km SW of Donetsk)	2-3km E	Heard	6	Explosion	Undetermined	N/K	25-Nov, 12:30
	2-3km E	Heard	8	Burst		HMG	25-Nov, 12:32
	2-3km E	Heard	9	Burst		HMG	25-Nov, 12:35
About 1.8km N of Petrivske (non-government-controlled, 41km S of Donetsk)	1-2km SE	Heard	1	Shot	Assessed as outside the disengagement area	Small arms	25-Nov, 09:19
About 1km NW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	4-5km NNW	Heard	1	Explosion	Undetermined	N/K	25-Nov, 12:10
Svitlodarsk (government-controlled, 57km NE of Donetsk)	5-6km S	Heard	2	Explosion	Undetermined	N/K	24-Nov, 18:40
	3-4km SE	Heard	2	Burst		HMG	24-Nov, 18:59
	3-4km S	Heard	4	Burst		HMG	24-Nov, 19:13
	3-4km S	Heard	9	Burst		HMG	24-Nov, 19:16
	3-4km S	Heard	6	Shot		Small arms	24-Nov, 19:40
	3-4km SE	Heard	11	Burst		HMG	24-Nov, 20:05-20:11

	5-6km SE	Heard	1	Explosion	Undetermined	N/K	24-Nov, 20:45
	3-4km SE	Heard	3	Burst		HMG	24-Nov, 21:12
	5-6km SE	Heard	1	Explosion	Undetermined	N/K	24-Nov, 21:30
	5-6km SE	Heard	1	Explosion	Undetermined	N/K	24-Nov, 21:59
	3-4km SE	Heard	5	Burst		HMG	24-Nov, 22:20
	3-4km SE	Heard	6	Burst		HMG	24-Nov, 22:26
	5-6km SE	Heard	1	Explosion	Undetermined	N/K	24-Nov, 23:00
	5-6km SE	Heard	2	Explosion	Undetermined	N/K	24-Nov, 23:03
	5-6km SE	Heard	3	Explosion	Undetermined	N/K	24-Nov, 23:09
	5-6km SE	Heard	1	Explosion	Undetermined	N/K	24-Nov, 23:14
	5-6km SE	Heard	2	Explosion	Undetermined	N/K	24-Nov, 23:18
	3-4km SE	Heard	11	Burst		HMG	24-Nov, 23:18-23:20
	3-4km SE	Heard	3	Shot		Small arms	24-Nov, 23:20
	5-6km SE	Heard	1	Explosion	Undetermined	N/K	24-Nov, 23:28
	3-4km SE	Heard	4	Burst		HMG	24-Nov, 23:30
	5-6km SE	Heard	1	Explosion	Undetermined	N/K	24-Nov, 23:32
	5-6km SE	Heard	1	Explosion	Undetermined	N/K	24-Nov, 23:53
	5-6km S	Heard	1	Explosion	Undetermined	N/K	25-Nov, 07:40
	5-6km S	Heard	1	Explosion	Undetermined	N/K	25-Nov, 08:51
	5-6km S	Heard	1	Explosion	Undetermined	N/K	25-Nov, 09:04
	5-6km S	Heard	2	Explosion	Undetermined	N/K	25-Nov, 09:36
	5-6km S	Heard	3	Explosion	Undetermined	N/K	25-Nov, 12:03
	3-4km S	Heard	12	Burst		HMG	25-Nov, 12:03
	5-6km S	Heard	3	Explosion	Undetermined	N/K	25-Nov, 14:10
	5-6km S	Heard	8	Explosion	Undetermined	N/K	25-Nov, 14:15-14:23
	5-6km S	Heard	6	Explosion	Undetermined	N/K	25-Nov, 14:20-14:30
	5-6km S	Heard	21	Explosion	Undetermined	N/K	25-Nov, 15:30-15:40
	4-5km S	Heard	36	Explosion	Undetermined	N/K	25-Nov, 15:40-16:10
	3-4km S	Heard	5	Burst		HMG	25-Nov, 17:55
	5-6km S	Heard	2	Explosion	Undetermined	N/K	25-Nov, 18:10
	5-6km S	Heard	2	Explosion	Undetermined	N/K	25-Nov, 18:14
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	2km SE	Heard	1	Explosion	Undetermined	N/K	25-Nov, 11:09
	3km SE	Heard	3	Explosion	Undetermined	N/K	25-Nov, 11:12
Holmivskiyi (non-government-controlled, 49km NE of Donetsk)	4-5km E	Heard	2	Explosion	Undetermined	N/K	25-Nov, 09:34
	2-3km NE	Heard	2	Explosion	Undetermined	N/K	25-Nov, 09:49
	4-5km E	Heard	2	Explosion	Undetermined	N/K	25-Nov, 10:32
	4-5km NW	Heard	1	Explosion	Undetermined	N/K	25-Nov, 11:00
	2-3km NE	Heard	2	Explosion	Undetermined	N/K	25-Nov, 11:22-11:24
	2-3km NE	Heard	3	Explosion	Undetermined	N/K	25-Nov, 11:28
Kodema (government-controlled, 57km NE of Donetsk)	4-5km SE	Heard	1	Explosion	Undetermined	N/K	25-Nov, 09:24
	4-5km SE	Heard	3	Explosion	Undetermined	N/K	25-Nov, 09:39
	4-5km SE	Heard	1	Explosion	Undetermined	N/K	25-Nov, 10:35
	4-5km SE	Heard	1	Explosion	Undetermined	N/K	25-Nov, 11:47
SSE edge of Nelipivka (government-controlled, 40km NE of Donetsk)	1-2km E	Heard	9	Burst		Small arms	25-Nov, 11:50-11:56
NW edge of Horlivka (non-	1-2km S	Heard	1	Explosion	Undetermined	N/K	25-Nov, 12:12

government controlled, 39km NE of Donetsk)							
N edge of Popasna (government-controlled, 69km W of Luhansk)	4-6km SE	Heard	12	Explosion	Undetermined		24-Nov, 23:16-23:25
	4-5km ESE	Heard	14	Burst	Undetermined (assessed as outside the disengagement area)	Small arms	24-Nov, 23:32
	4-5km ESE	Heard	28	Burst	Undetermined (assessed as outside the disengagement area)	Small arms	25-Nov, 00:02-00:06
	4-6km SE	Heard	1	Explosion	Undetermined		25-Nov, 00:18
	4-5km ESE	Heard	37	Burst	Undetermined (assessed as outside the disengagement area)	HMG	25-Nov, 00:26-00:28
Kadiivka (formerly Stakhanov, non-government-controlled, 50km W of Luhansk)	10-17km NW	Heard	10	Explosion	Undetermined (unable to assess if inside or outside the Zolote disengagement area)	N/K	24-Nov, 23:21-23:29
	10-17km NW	Heard	1	Explosion	Undetermined (unable to assess if inside or outside the Zolote disengagement area)	N/K	25-Nov, 00:16
Muratove (government-controlled, 51km NW of Luhansk)	6-8km S	Heard	10	Explosion	Undetermined	N/K	25-Nov, 10:08-10:15