

	1	Combat engineering vehicle (BAT-2)		
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Table of ceasefire violations as of 11 November 2019⁹

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	2-4km SSE	Recorded	5	Projectile	ENE to WSW	N/K	10-Nov, 21:21
	2-4km SSE	Recorded	1	Explosion	Impact	N/K	10-Nov, 21:21
	4-5km SSE	Recorded	2	Explosion	Undetermined	N/K	10-Nov, 21:49
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	200-500m SSE	Recorded	1	Explosion	Undetermined	N/K	10-Nov, 19:50
	0.8-1km SSW	Recorded	3	Projectile	NW to SE	N/K	10-Nov, 19:50
	500-800m S	Recorded	1	Projectile	NW to SE	N/K	10-Nov, 19:50
	1-2km SSW	Recorded	2	Explosion	Undetermined	N/K	10-Nov, 19:54
	0.5-1km S	Recorded	1	Projectile	WNW to ESE	N/K	11-Nov, 00:05
	0.5-1km S	Recorded	1	Explosion	Subsequent to previous event	N/K	11-Nov, 00:05
	400-700m SSW	Recorded	3	Muzzle flash		N/K	11-Nov, 02:51
	400-700m SSW	Recorded	5	Muzzle flash		N/K	11-Nov, 02:58
	400-700m SSW	Recorded	2	Muzzle flash		N/K	11-Nov, 03:08
	400-700m SSW	Recorded	4	Muzzle flash		N/K	11-Nov, 03:13
	400-700m SSW	Recorded	3	Muzzle flash		N/K	11-Nov, 03:36
	0.6-1km S	Recorded	1	Explosion	Undetermined	N/K	11-Nov, 03:36
	400-700m SSW	Recorded	2	Muzzle flash		N/K	11-Nov, 03:44
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	11-Nov, 03:47
400-700m SSW	Recorded	6	Muzzle flash		N/K	11-Nov, 04:17	
0.6-1km SSE	Recorded	1	Explosion	Undetermined	N/K	11-Nov, 04:17	
SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk)	3-5km E	Recorded	1	Projectile	SW to NE (also recorded by the SMM cameras in Chermalyk and Shyrokyne)	N/K	10-Nov, 20:08
	3-5km E	Recorded	4	Projectile	NNW to SSE (also recorded by the SMM cameras in Chermalyk and Shyrokyne)	N/K	10-Nov, 20:08
	3-5km E	Recorded	3	Explosion	Impact (also recorded by the SMM cameras in Chermalyk and Shyrokyne)	N/K	10-Nov, 20:08
	2-4km E	Recorded	2	Explosion	Undetermined	N/K	10-Nov, 20:09
	2-4km E	Recorded	1	Projectile	NNW to SSE	N/K	10-Nov, 20:09
	3-5km E	Recorded	3	Explosion	Also recorded by the SMM cameras in Chermalyk and Shyrokyne	N/K	10-Nov, 20:10
	3-5km E	Recorded	1	Projectile	NNW to SSE (also recorded	N/K	10-Nov, 20:10

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.

					by the SMM cameras in Chermalyk and Shyrokyne)		
	3-5km E	Recorded	1	Explosion	Also recorded by the SMM cameras in Chermalyk and Shyrokyne	N/K	10-Nov, 20:13
	3-5km E	Recorded	1	Explosion	Also recorded by the SMM cameras in Chermalyk and Shyrokyne	N/K	10-Nov, 20:15
	3-5km ESE	Recorded	1	Projectile	SW to NE	N/K	10-Nov, 20:16
	3-5km ESE	Recorded	1	Explosion	Impact	N/K	10-Nov, 20:16
	4-6km SE	Recorded	5	Projectile	SW to NE	N/K	10-Nov, 20:59
	3-5km SE	Recorded	2	Projectile	SSW to NNE	N/K	10-Nov, 22:16
	3-5km SE	Recorded	4	Projectile	SSW to NNE	N/K	10-Nov, 22:17
	3-5km SE	Recorded	1	Projectile	SSW to NNE	N/K	10-Nov, 22:18
	3-5km ESE	Recorded	1	Explosion	Undetermined	N/K	10-Nov, 22:18
	3-5km ESE	Recorded	1	Projectile	SSW to NNE	N/K	10-Nov, 22:19
	3-5km ESE	Recorded	1	Projectile	NW to SE	N/K	10-Nov, 22:19
	3-5km ESE	Recorded	2	Projectile	SSW to NNE	N/K	10-Nov, 22:20
	3-5km ESE	Recorded	1	Projectile	SSW to NNE	N/K	10-Nov, 22:21
SMM camera E of Lomakyne (government-controlled, 90km S of Donetsk)	4-6km ENE	Recorded	1	Explosion	Undetermined	N/K	10-Nov, 20:58
	4-6km ENE	Recorded	5	Projectile	SSW to NNE	N/K	10-Nov, 20:58
	4-6km ENE	Recorded	3	Projectile	W to E	N/K	10-Nov, 20:59
	4-6km ENE	Recorded	5	Projectile	SSW to NNE	N/K	10-Nov, 21:00
	4-6km ENE	Recorded	1	Explosion	Undetermined	N/K	10-Nov, 21:03
	4-6km ENE	Recorded	1	Projectile	SSW to NNE	N/K	10-Nov, 21:03
	4-6km ENE	Recorded	1	Burst	N to S (approximately 10 rounds)	N/K	10-Nov, 21:05
	4-6km ENE	Recorded	3	Projectile	N to S	N/K	10-Nov, 21:06
	4-6km ENE	Recorded	4	Projectile	N to S	N/K	10-Nov, 21:07
	4-6km ENE	Recorded	1	Explosion	Undetermined	N/K	10-Nov, 21:10
	4-6km ENE	Recorded	1	Projectile	N to S	N/K	10-Nov, 21:11
	4-6km E	Recorded	1	Projectile	W to E	N/K	10-Nov, 21:13
	SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	2-4km ENE	Recorded	1	Illumination flare	NW to SE	N/K
2-4km E		Recorded	1	Projectile	N to S	N/K	10-Nov, 19:11
2-4km ENE		Recorded	1	Illumination flare	W to E	N/K	10-Nov, 19:23
2-4km ENE		Recorded	1	Illumination flare	NW to SE	N/K	10-Nov, 19:31
2-4km ENE		Recorded	1	Illumination flare	NW to SE	N/K	10-Nov, 22:14
2-4km ENE		Recorded	1	Illumination flare	NW to SE	N/K	10-Nov, 22:25
2-4km ENE		Recorded	1	Illumination flare	In vertical flight	N/K	10-Nov, 22:29
2-4km ENE		Recorded	1	Illumination flare	NW to SE	N/K	10-Nov, 22:32
2-4km ENE		Recorded	1	Illumination flare	W to E	N/K	10-Nov, 22:34
2-4km ENE		Recorded	1	Illumination flare	W to E	N/K	10-Nov, 22:39
2-4km E		Recorded	1	Projectile	N to S	N/K	10-Nov, 22:42
SMM camera at entry-exit	2-4km NNE	Recorded	2	Projectile	SW to NE	N/K	10-Nov, 20:17
	2-4km NNE	Recorded	1	Projectile	In vertical flight	N/K	10-Nov, 20:17

checkpoint in Marinka (government-controlled, 23km SW of Donetsk)	2-4km NNE	Recorded	2	Projectile	SSW to NNE	N/K	10-Nov, 22:41
	2-4km NNE	Recorded	1	Projectile	SW to NE	N/K	10-Nov, 22:45
SMM camera at entry-exit checkpoint in Pyshchevyk (government-controlled, 84km S of Donetsk)	3-5km ESE	Recorded	5	Projectile	WSW to ENE	N/K	10-Nov, 21:46
	3-5km ENE	Recorded	7	Projectile	WSW to ENE	N/K	10-Nov, 22:23
	3-5km ENE	Recorded	2	Projectile	N to S	N/K	10-Nov, 22:23
	3-5km ESE	Recorded	16	Projectile	SW to NE	N/K	10-Nov, 22:25
	3-5km ENE	Recorded	4	Projectile	NW to SE	N/K	10-Nov, 22:47
SMM camera 1km SW of Shyrokyne (government-controlled, 100km S of Donetsk)	3-5km N	Recorded	5	Projectile	In vertical flight	N/K	10-Nov, 17:58
	3-5km N	Recorded	1	Projectile	E to W	N/K	10-Nov, 18:01
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	10-Nov, 18:01
	3-5km N	Recorded	15	Projectile	E to W	N/K	10-Nov, 18:02
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	10-Nov, 18:02
	3-5km N	Recorded	1	Projectile	E to W	N/K	10-Nov, 18:03
	3-5km N	Recorded	27	Projectile	E to W	N/K	10-Nov, 18:04
	3-5km N	Recorded	2	Explosion	Undetermined	N/K	10-Nov, 18:04
	3-5km N	Recorded	5	Projectile	E to W	N/K	10-Nov, 18:05
	3-5km N	Recorded	26	Projectile	E to W	N/K	10-Nov, 18:06
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	10-Nov, 18:06
	3-5km N	Recorded	27	Projectile	E to W	N/K	10-Nov, 18:09
	3-5km N	Recorded	4	Projectile	W to E	N/K	10-Nov, 18:09
	3-5km N	Recorded	2	Explosion	Undetermined	N/K	10-Nov, 18:09
	3-5km N	Recorded	1	Projectile	E to W	N/K	10-Nov, 18:10
	3-5km N	Recorded	1	Muzzle flash		N/K	10-Nov, 18:11
	3-5km N	Recorded	1	Projectile	WNW to ESE (subsequent to previous event)	N/K	10-Nov, 18:11
	3-5km N	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	10-Nov, 18:11
	3-5km N	Recorded	2	Projectile	E to W	N/K	10-Nov, 18:12
	3-5km N	Recorded	1	Projectile	W to E	N/K	10-Nov, 18:12
	3-5km N	Recorded	3	Projectile	E to W	N/K	10-Nov, 18:14
	3-5km N	Recorded	1	Projectile	E to W	N/K	10-Nov, 18:15
	3-5km N	Recorded	1	Projectile	E to W	N/K	10-Nov, 18:16
	3-5km N	Recorded	1	Projectile	SW to NE	N/K	10-Nov, 18:16
	3-5km N	Recorded	9	Projectile	W to E	N/K	10-Nov, 18:17
	3-5km N	Recorded	2	Projectile	E to W	N/K	10-Nov, 18:17
	3-5km N	Recorded	2	Explosion	Undetermined	N/K	10-Nov, 18:17
	3-5km N	Recorded	6	Projectile	W to E	N/K	10-Nov, 18:18
	3-5km N	Recorded	4	Projectile	W to E	N/K	10-Nov, 18:19
	3-5km N	Recorded	1	Projectile	In vertical flight	N/K	10-Nov, 18:19
	3-5km N	Recorded	4	Projectile	W to E	N/K	10-Nov, 18:27
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	10-Nov, 18:27
	3-5km N	Recorded	1	Projectile	ENE to WSW	N/K	10-Nov, 18:29
	3-5km N	Recorded	1	Muzzle flash		N/K	10-Nov, 18:31
	3-5km N	Recorded	1	Explosion	Impact	N/K	10-Nov, 18:31
	3-5km N	Recorded	1	Projectile	W to E	N/K	10-Nov, 18:31
	3-5km N	Recorded	1	Projectile	W to E	N/K	10-Nov, 18:38
	3-5km N	Recorded	3	Projectile	ENE to WSW	N/K	10-Nov, 18:40
	3-5km NNE	Recorded	1	Projectile	WNW to ESE	N/K	10-Nov, 18:40
	3-5km N	Recorded	1	Projectile	W to E	N/K	10-Nov, 18:40
	3-5km N	Recorded	5	Projectile	E to W	N/K	10-Nov, 18:41
	3-5km N	Recorded	1	Projectile	W to E	N/K	10-Nov, 18:41
3-5km N	Recorded	1	Explosion	Undetermined	N/K	10-Nov, 18:41	
3-5km N	Recorded	6	Projectile	W to E	N/K	10-Nov, 18:42	

	3-5km N	Recorded	3	Projectile	W to E	N/K	10-Nov, 18:45
	3-5km N	Recorded	1	Projectile	W to E	N/K	10-Nov, 18:45
	3-5km N	Recorded	1	Projectile	W to E	N/K	10-Nov, 18:46
	3-5km N	Recorded	4	Projectile	W to E	N/K	10-Nov, 18:47
	3-5km NNE	Recorded	1	Illumination flare	In vertical flight	N/K	10-Nov, 18:47
	3-5km N	Recorded	2	Projectile	W to E	N/K	10-Nov, 18:48
	3-5km NNE	Recorded	2	Projectile	W to E	N/K	10-Nov, 18:48
	3-5km N	Recorded	1	Projectile	W to E	N/K	10-Nov, 18:49
	3-5km N	Recorded	1	Projectile	W to E	N/K	10-Nov, 18:50
	3-5km N	Recorded	1	Projectile	W to E	N/K	10-Nov, 18:51
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	10-Nov, 18:51
	2-4km NNE	Recorded	1	Projectile	SE to NW	N/K	10-Nov, 19:00
	3-5km N	Recorded	31	Projectile	W to E	N/K	10-Nov, 19:02
	3-5km N	Recorded	11	Projectile	E to W	N/K	10-Nov, 19:02
	3-5km N	Recorded	1	Projectile	W to E	N/K	10-Nov, 19:03
	3-5km N	Recorded	1	Projectile	W to E	N/K	10-Nov, 19:04
	3-5km N	Recorded	2	Projectile	W to E	N/K	10-Nov, 19:05
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	10-Nov, 19:05
	3-5km N	Recorded	6	Projectile	W to E	N/K	10-Nov, 19:05
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	10-Nov, 19:06
	3-5km N	Recorded	1	Projectile	W to E	N/K	10-Nov, 19:07
	3-5km N	Recorded	1	Muzzle flash		N/K	10-Nov, 19:07
	3-5km N	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	10-Nov, 19:07
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	10-Nov, 19:08
	3-5km N	Recorded	1	Projectile	W to E	N/K	10-Nov, 19:09
	3-5km N	Recorded	2	Projectile	W to E	N/K	10-Nov, 19:14
	3-5km N	Recorded	1	Muzzle flash		N/K	10-Nov, 19:17
	3-5km N	Recorded	1	Projectile	WNW to ESE (subsequent to previous event)	N/K	10-Nov, 19:17
	3-5km N	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	10-Nov, 19:17
	8-10km N	Recorded	1	Explosion	Undetermined (also recorded by the SMM camera in Lomakyne)	N/K	10-Nov, 20:37
	3-5km N	Recorded	3	Projectile	W to E	N/K	10-Nov, 20:43
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	10-Nov, 21:13
	3-5km N	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	10-Nov, 21:13
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	10-Nov, 21:21
	3-5km N	Recorded	1	Projectile	W to E	N/K	11-Nov, 02:28
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	11-Nov, 02:29
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	11-Nov, 03:31
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	11-Nov, 04:23
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	11-Nov, 04:27
NW edge of Vuhlehirsk (non-government-controlled, 49km NE of Donetsk)	3-5km NE	Heard	1	Explosion	Undetermined	N/K	11-Nov, 11:00
About 300m NNE of Debaltseve city centre (non-government-	2-4km NNE	Heard	1	Explosion	Undetermined	N/K	11-Nov, 12:01

controlled, 58km NE of Donetsk)							
About 1km NW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	3-4km SW	Heard	7	Shot		IFV (BMP-2) cannon (30mm)	11-Nov, 10:34-10:36
	3-4km SW	Heard	2	Explosion	Undetermined	N/K	11-Nov, 09:08
	3-4km SW	Heard	2	Explosion	Undetermined	N/K	11-Nov, 09:11
	3-4km SW	Heard	2	Explosion	Undetermined	N/K	11-Nov, 09:13
	3-4km SW	Heard	64	Shot		IFV (BMP-2) cannon (30mm)	11-Nov, 09:53-10:05
The railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	3-4km SW	Heard	6	Shot		IFV (BMP-2) cannon (30mm)	11-Nov, 10:27
Marinka (government controlled, 23km SW of Donetsk)	1-2km E	Heard	11	Shot		Small arms	11-Nov, 12:58-13:00
	1-2km E	Heard	1	Shot		Small arms	11-Nov, 13:03
SE edge of Avdiivka (government-controlled, 17km N of Donetsk)	1-2km SE	Heard	6	Explosion	Outgoing	N/K	11-Nov, 09:06-09:12
	1-2km SE	Heard	28	Shot		Small arms	11-Nov, 09:50-10:05
	1-2km SE	Heard	63	Shot		HMG	11-Nov, 09:50-10:05
	1-2km SE	Heard	2	Explosion	Undetermined	N/K	11-Nov, 09:50-10:05
	1-2km SE	Heard	8	Shot		Small arms	11-Nov, 10:38-10:43
	1-2km SE	Heard	1	Shot		Small arms	11-Nov, 13:46
About 2km N of Petrivske (non-government-controlled, 41km S of Donetsk)	1km S	Heard	8	Shot	Assessed as outside the disengagement area	Small arms	11-Nov, 12:24
	1km S	Heard	16	Burst	Assessed as outside the disengagement area	HMG	11-Nov, 12:24
	1km S	Heard	6	Burst	Assessed as outside the disengagement area	HMG	11-Nov, 12:26
	1km S	Heard	3	Shot	Assessed as outside the disengagement area	HMG	11-Nov, 12:30
	1km S	Heard	4	Burst	Assessed as outside the disengagement area	HMG	11-Nov, 12:31
	1km S	Heard	8	Shot	Assessed as outside the disengagement area	Small arms	11-Nov, 12:34
	1-2km SW	Heard	1	Explosion	Undetermined (unable to assess either inside or outside the	N/K	11-Nov, 12:35

					disengagement area)		
	1-2km S	Heard	1	Shot	Assessed as outside the disengagement area	Small arms	11-Nov, 14:35
2km SW of Pyshchevyk (government-controlled, 84km S of Donetsk)	2-3km ENE	Heard	6	Shot		Small arms	11-Nov, 10:13
	5km NNW	Heard	3	Explosion	Undetermined	N/K	11-Nov, 10:17
	3-5km SSE	Heard	1	Explosion	Undetermined	N/K	11-Nov, 12:16
	2-3km ESE	Heard	15	Burst		HMG	11-Nov, 13:52-13:58
	2-3km ESE	Heard	40	Shot		Small arms	11-Nov, 13:52-13:58
	2-3km ESE	Heard	20	Burst		Small arms	11-Nov, 13:59-14:05
	2-3km ESE	Heard	2	Explosion	Undetermined	N/K	11-Nov, 13:59-14:05
	2-3km E	Heard	3	Explosion	Undetermined	N/K	11-Nov, 13:59-14:05
	2-3km ESE	Heard	7	Burst		Small arms	11-Nov, 14:14
About 1km W of Verkhnohyrokiivske (formerly Oktiabr, non-government-controlled, 85km S of Donetsk)	2-3km SSW	Heard	12	Shot		Small arms	11-Nov, 12:04-12:15
	2-3km SSW	Heard	20	Burst		HMG	11-Nov, 12:04-12:15
	2-3km SSW	Heard	3	Burst		AGL	11-Nov, 12:04-12:15
	1km SSE	Heard	4	Explosion	Outgoing	N/K	11-Nov, 12:04-12:15
	5km SW	Heard	4	Explosion	Impact	N/K	11-Nov, 12:04-12:15
	1km SSE	Heard	3	Explosion	Outgoing	N/K	11-Nov, 14:05-14:08
	4-5km SW	Heard	3	Explosion	Impact	N/K	11-Nov, 14:05-14:08
About 2km E of Bohdanivka (government-controlled, 41km SW of Donetsk)	2-3km SE	Heard	24	Shot	Unable to assess whether inside or outside the disengagement area	Small arms	11-Nov, 12:25-12:30
	2-3km SE	Heard	19	Burst	Unable to assess whether inside or outside the disengagement area	HMG	11-Nov, 12:25-12:30
Orlivske (government-controlled, 82km S of Donetsk)	5-7km SSE	Heard	2	Explosion	Undetermined	N/K	11-Nov, 13:32
About 2km SE of Lebedynske (government-controlled, 99km S of Donetsk)	3-5km NNE	Heard	2	Explosion	Undetermined	N/K	11-Nov, 13:35-13:37
	3-5km NNE	Heard	4	Explosion	Undetermined	Tank (type undetermined)	11-Nov, 13:35-13:37
	3-5km NNE	Heard	2	Explosion	Undetermined	Tank (type undetermined)	11-Nov, 13:39
	1km E	Heard	1	Shot		Small arms	11-Nov, 13:42
	3-5km NNE	Heard	2	Explosion	Undetermined	N/K	11-Nov, 13:50-13:52
	1km NNE	Heard	10	Shot		Small arms	11-Nov, 13:55
Svitlodarsk (government-controlled, 57km NE of Donetsk)	3-4km SE	Heard	10	Burst		HMG	10-Nov, 19:20-19:25
	3-4km SE	Heard	5	Burst		HMG	10-Nov, 19:35-19:37

	3-4km SE	Heard	7	Explosion	Undetermined	N/K	10-Nov, 19:37-19:41
	3-4km SE	Heard	5	Explosion	Undetermined	N/K	10-Nov, 19:45-19:50
	3-4km SE	Heard	7	Explosion	Undetermined	N/K	10-Nov, 19:55-20:00
	3-4km SE	Heard	15	Burst		HMG	10-Nov, 20:00-20:05
	3-4km SE	Heard	8	Explosion	Undetermined	N/K	10-Nov, 20:08-20:13
	3-4km SE	Heard	2	Explosion	Undetermined	N/K	10-Nov, 20:35-20:37
	3-4km SE	Heard	1	Explosion	Undetermined	N/K	10-Nov, 21:38
	3-4km SE	Heard	2	Explosion	Undetermined	N/K	10-Nov, 22:15
	4-5km SW	Heard	1	Explosion	Undetermined	N/K	10-Nov, 23:26
	3-4km SE		2	Explosion	Undetermined	N/K	11-Nov, 11:28
	3-4km SE	Heard	1	Explosion	Undetermined	N/K	11-Nov, 12:12
	3-4km SE	Heard	1	Explosion	Undetermined	N/K	11-Nov, 14:09
	3-4km SE	Heard	2	Explosion	Undetermined	N/K	11-Nov, 14:10
	3-4km SE	Heard	3	Explosion	Undetermined	N/K	11-Nov, 14:28
	3-4km SE	Heard	18	Burst		HMG	11-Nov, 14:40
	3-4km SE	Heard	15	Explosion	Undetermined	N/K	11-Nov, 15:40
	3-4km SE	Heard	4	Burst		HMG	11-Nov, 15:42
	3-4km SE	Heard	4	Explosion	Undetermined	N/K	11-Nov, 16:48
	3-4km SE	Heard	6	Explosion	Undetermined	N/K	11-Nov, 16:50
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	3-4km S	Heard	6	Explosion	Undetermined	N/K	11-Nov, 09:08-09:14
	1-2km W	Heard	2	Shot		Small arms	11-Nov, 12:43
	3-4km SSW	Heard	1	Explosion	Undetermined	N/K	11-Nov, 13:37
Holmivskiyi (non-government-controlled, 49km NE of Donetsk)	3-4km N	Heard	2	Explosion	Undetermined	N/K	11-Nov, 09:16
	3-5km NE	Heard	1	Explosion	Undetermined	N/K	11-Nov, 11:30
	3-5km NE	Heard	1	Explosion	Undetermined	N/K	11-Nov, 12:16
	4-5km SSW	Heard	2	Explosion	Undetermined	N/K	11-Nov, 14:18
	3-4km SE	Heard	2	Explosion	Undetermined	N/K	11-Nov, 14:23
	3-4km SE	Heard	8	Explosion	Undetermined	N/K	11-Nov, 14:28
	3-4km NE	Heard	15	Shot		Small arms	11-Nov, 15:05
	3-4km NE	Heard	16	Burst		HMG	11-Nov, 15:16
SW edge of Novoluhanske (government-controlled, 53km NE of Donetsk)	2-3km W	Heard	2	Explosion	Undetermined	N/K	11-Nov, 11:30
	2-3km W	Heard	1	Explosion	Undetermined	N/K	11-Nov, 12:18
	4-5km SSW	Heard	3	Explosion	Undetermined	N/K	11-Nov, 14:09
	4-5km SSW	Heard	2	Explosion	Undetermined	N/K	11-Nov, 14:18
Horlivka (non-government-controlled, 39km NE of Donetsk)	4-5km W	Heard	18	Explosion	Undetermined	N/K	11-Nov, 14:30-14:40
	4-5km W	Heard	56	Burst		HMG	11-Nov, 14:30-14:40
N edge of Popasna (government-controlled, 69km W of Luhansk)	4-6km ESE	Heard	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	10-Nov, 22:10
3km SW of Metalist (non-government-controlled, 7km NW of Luhansk)	600-800m NW	Heard	5	Shot	Assessed as aimed at an SMM UAV	Small arms	11-Nov, 09:29-09:31
250m N of Stanytsia Luhanska Bridge (15km NE of Luhansk, inside the disengagement area)	1.5-2km NE	Heard	1	Explosion	Undetermined (Assessed as outside the disengagement area)	N/K	11-Nov, 15:07