

Table of ceasefire violations as of 13 October 2019¹

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time	
SMM camera in Berezove (government-controlled, 31km SW of Donetsk)	2-3km ESE	Recorded	4	Projectile	SW to NE	N/K	11-Oct, 18:45	
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	1-2km S	Recorded	2	Projectile	WNW to ESE	N/K	11-Oct, 18:31	
	1-2km S	Recorded	2	Projectile	WNW to ESE	N/K	11-Oct, 18:32	
	2-3km SSE	Recorded	1	Muzzle flash		N/K	11-Oct, 18:32	
	2-3km SSE	Recorded	1	Projectile	NE to SW	N/K	11-Oct, 18:32	
	2-3km SSE	Recorded	2	Projectile	WSW to ENE	N/K	11-Oct, 19:06	
	2-3km SSE	Recorded	1	Projectile	SW to NE	N/K	11-Oct, 19:14	
	2-3km SSE	Recorded	1	Explosion	Impact	N/K	11-Oct, 19:14	
	1-2km S	Recorded	3	Projectile	WNW to ESE	N/K	11-Oct, 19:14	
	2-3km SSE	Recorded	1	Muzzle flash		N/K	11-Oct, 19:14	
	2-3km SSE	Recorded	12	Projectile	SW to NE	N/K	11-Oct, 19:14	
	3-5km SSE	Recorded	8	Projectile	NNE to SSW	N/K	11-Oct, 21:27	
	5-8km SSE	Recorded	1	Illumination flare		N/K	11-Oct, 22:57	
	2-3km SSE	Recorded	1	Projectile	NNE to SSW	N/K	11-Oct, 23:24	
	3-5km SSE	Recorded	4	Projectile	NNE to SSW	N/K	12-Oct, 00:29	
	3-5km SSE	Recorded	1	Projectile	In vertical flight	N/K	12-Oct, 00:29	
	SMM camera at Donetsk Filtration Station (15km N of Donetsk)	2-3km SSW	Recorded	1	Projectile	WNW to ESE	N/K	11-Oct, 21:58
		0.8-1km S	Recorded	1	Explosion	Undetermined	N/K	11-Oct, 22:19
0.5-1km S		Recorded	1	Muzzle flash		N/K	11-Oct, 23:58	
200-500m S		Recorded	1	Muzzle flash		N/K	12-Oct, 01:58	
0.6-1.2km S		Recorded	1	Projectile	WNW to ESE	N/K	12-Oct, 03:16	
0.6-1.2km S		Recorded	1	Projectile	WNW to ESE	N/K	12-Oct, 03:19	
SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk)	2-4km ESE	Recorded	1	Explosion		N/K	11-Oct, 22:13	
	2-4km E	Recorded	1	Illumination flare	In vertical flight	N/K	12-Oct, 00:52	
SMM camera in Krasnohorivka (government-controlled, 21km W of Donetsk)	3-5km ESE	Recorded	1	Projectile	In vertical flight	N/K	11-Oct, 21:58	
	3-5km ESE	Recorded	1	Explosion	Airburst	N/K	11-Oct, 21:58	
SMM camera E of Lomakyne (government-controlled, 90km S of Donetsk)	2-4km NE	Recorded	1	Explosion	Undetermined	N/K	12-Oct, 01:14	
	2-4km NE	Recorded	1	Explosion	Undetermined	N/K	12-Oct, 01:17	
	2-4km NE	Recorded	1	Explosion	Undetermined	N/K	12-Oct, 01:23	
	2-4km NE	Recorded	1	Explosion	Undetermined	N/K	12-Oct, 01:32	
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	2-4km ENE	Recorded	1	Projectile	N to S	N/K	11-Oct, 20:44	
	2-4km ENE	Recorded	2	Projectile	NW to SE	N/K	11-Oct, 20:45	
	2-4km ENE	Recorded	1	Projectile	NW to SE	N/K	11-Oct, 20:46	
	1-3km ENE	Recorded	4	Projectile	N to S	N/K	11-Oct, 20:46	
	1-3km ENE	Recorded	3	Muzzle flash		N/K	11-Oct, 20:46	
	2-4km ENE	Recorded	1	Projectile	NNW to SSE	N/K	11-Oct, 20:47	
	2-4km ENE	Recorded	1	Muzzle flash		N/K	11-Oct, 20:47	
	1-2km E	Recorded	3	Projectile	N to S	N/K	11-Oct, 20:56	
	2-4km ENE	Recorded	1	Muzzle flash		N/K	11-Oct, 21:26	

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 position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	2-4km ENE	Recorded	3	Projectile	NNW to SSE	N/K	11-Oct, 21:26
	3-5km ENE	Recorded	1	Illumination flare	In vertical flight	N/K	11-Oct, 22:09
	2-4km ENE	Recorded	1	Illumination flare	In vertical flight	N/K	11-Oct, 22:11
	2-4km E	Recorded	2	Projectile	WSW to ENE	N/K	11-Oct, 23:22
	2-4km E	Recorded	1	Projectile	W to E	N/K	11-Oct, 23:22
	3-5km E	Recorded	1	Projectile	N to S	N/K	11-Oct, 23:29
	3-5km ENE	Recorded	1	Illumination flare	NNW to SSE	N/K	11-Oct, 23:32
	3-5km E	Recorded	1	Projectile	SW to NE	N/K	11-Oct, 23:42
	3-5km E	Recorded	1	Projectile	NW to SE	N/K	11-Oct, 23:42
	3-5km E	Recorded	1	Projectile	WSW to ENE	N/K	12-Oct, 00:54
	4-6km E	Recorded	1	Projectile	WSW to ENE	N/K	12-Oct, 00:55
	4-6km E	Recorded	Uncountable	Muzzle flash		N/K	12-Oct, 00:56
	4-6km E	Recorded	1	Projectile	WSW to ENE	N/K	12-Oct, 00:56
	4-6km E	Recorded	1	Projectile	WNW to ESE	N/K	12-Oct, 00:56
	4-6km E	Recorded	1	Explosion	Impact	N/K	12-Oct, 00:56
	4-6km E	Recorded	1	Projectile	S to N	N/K	12-Oct, 01:00
	3-5km E	Recorded	1	Projectile	SSW to NNE	N/K	12-Oct, 01:02
	3-5km E	Recorded	2	Explosion	Undetermined	N/K	12-Oct, 01:04
	2-4km E	Recorded	1	Projectile	SW to NE	N/K	12-Oct, 01:39
1-3km E	Recorded	6	Projectile	NW to SE	N/K	12-Oct, 03:42	
3-5km E	Recorded	1	Explosion	Undetermined	N/K	12-Oct, 04:33	
SMM camera in Petrivske (non-government-controlled, 41km S of Donetsk)	0.5-1km NNW	Recorded	1	Projectile	SSW to NNE (assessed as outside the disengagement area)	N/K	9-Oct, 03:07
SMM camera at entry-exit checkpoint in Pyshevyk (government-controlled, 84km S of Donetsk)	3-5km S	Recorded	6	Projectile	W to E	N/K	12-Oct, 01:02
	3-5km S	Recorded	5	Projectile	W to E	N/K	12-Oct, 01:42
	3-5km S	Recorded	1	Projectile	W to E	N/K	12-Oct, 01:46
	3-5km S	Recorded	3	Projectile	W to E	N/K	12-Oct, 02:01
	3-5km S	Recorded	2	Projectile	E to W	N/K	12-Oct, 02:08
	3-5km S	Recorded	1	Projectile	NW to SE	N/K	12-Oct, 02:11
	4-6km S	Recorded	1	Illumination flare		N/K	12-Oct, 02:18
	6-8km S	Recorded	1	Illumination flare		N/K	12-Oct, 02:19
	3-5km S	Recorded	5	Projectile	W to E	N/K	12-Oct, 02:25
	3-5km S	Recorded	3	Projectile	W to E	N/K	12-Oct, 02:26
	3-5km S	Recorded	3	Projectile	W to E	N/K	12-Oct, 02:27
	3-5km S	Recorded	2	Burst	Approximately 30 rounds, in vertical flight	N/K	12-Oct, 02:27
	3-5km S	Recorded	1	Burst	NE to SW	N/K	12-Oct, 02:41
	3-5km S	Recorded	5	Projectile	NW to SE	N/K	12-Oct, 02:45
	3-5km S	Recorded	1	Explosion		N/K	12-Oct, 03:04
	4-6km SSE	Recorded	1	Explosion		N/K	12-Oct, 03:08
	3-5km SSE	Recorded	3	Projectile	W to E	N/K	12-Oct, 03:14
	3-5km S	Recorded	1	Projectile	N to S	N/K	12-Oct, 03:14
	3-5km S	Recorded	2	Projectile	W to E	N/K	12-Oct, 03:32
	3-5km S	Recorded	4	Projectile	W to E	N/K	12-Oct, 03:33
	3-5km S	Recorded	8	Projectile	W to E	N/K	12-Oct, 04:11
	3-5km S	Recorded	5	Projectile	W to E	N/K	12-Oct, 04:26
	3-5km S	Recorded	8	Projectile	W to E	N/K	12-Oct, 04:33
	3-5km S	Recorded	1	Muzzle flash		N/K	12-Oct, 04:36
	3-5km S	Recorded	3	Projectile	W to E	N/K	12-Oct, 04:36
	3-5km S	Recorded	1	Projectile	E to W	N/K	12-Oct, 04:40
	3-5km SSE	Recorded	5	Projectile	W to E	N/K	12-Oct, 04:40
	3-5km SSE	Recorded	19	Projectile	W to E	N/K	12-Oct, 04:41
	3-5km S	Recorded	1	Projectile	W to E	N/K	12-Oct, 04:57
	3-5km S	Recorded	1	Projectile	NW to SE	N/K	12-Oct, 04:59
3-5km S	Recorded	1	Projectile	NW to SE	N/K	12-Oct, 05:48	

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera 1km SW of Shyrokyne (government-controlled, 100km S of Donetsk)	3-5km S	Recorded	3	Projectile	W to E	N/K	12-Oct, 05:48
	2-4km N	Recorded	4	Projectile	WNW to ESE	N/K	11-Oct, 18:40
	2-4km N	Recorded	3	Projectile	WSW to ENE	N/K	11-Oct, 18:42
	2-4km N	Recorded	1	Projectile	SW to NE	N/K	11-Oct, 18:56
	2-4km N	Recorded	10	Projectile	SW to NE	N/K	11-Oct, 19:06
	3-5km N	Recorded	1	Projectile	E to W	N/K	11-Oct, 20:14
	3-5km N	Recorded	7	Projectile	E to W	N/K	11-Oct, 20:20
	3-5km N	Recorded	2	Projectile	NNE to SSW	N/K	11-Oct, 20:38
	4-6km N	Recorded	Uncountable	Explosion		N/K	11-Oct, 20:39
	3-5km N	Recorded	8	Projectile	W to E	N/K	11-Oct, 20:39
	3-5km N	Recorded	2	Projectile	W to E	N/K	11-Oct, 20:39
	3-5km N	Recorded	10	Projectile	W to E	N/K	11-Oct, 20:40
	3-5km N	Recorded	3	Projectile	E to W	N/K	11-Oct, 20:40
	3-5km NE	Recorded	1	Illumination flare	In vertical flight	N/K	11-Oct, 20:40
	3-5km NNE	Recorded	2	Projectile	E to W	N/K	11-Oct, 20:51
	3-5km N	Recorded	5	Projectile	W to E	N/K	11-Oct, 20:52
	2-4km NE	Recorded	1	Projectile	E to W	N/K	11-Oct, 21:38
	3-5km N	Recorded	1	Projectile	W to E	N/K	11-Oct, 21:53
	3-5km N	Recorded	1	Projectile	W to E	N/K	11-Oct, 21:54
	3-5km N	Recorded	2	Projectile	W to E	N/K	11-Oct, 22:01
	3-5km N	Recorded	3	Projectile	W to E	N/K	11-Oct, 22:02
	4-6km N	Recorded	1	Projectile	E to W	N/K	11-Oct, 22:15
	4-6km NNE	Recorded	1	Illumination flare	In vertical flight	N/K	11-Oct, 22:56
	4-6km NNE	Recorded	1	Illumination flare	In vertical flight	N/K	11-Oct, 22:57
	3-5km NNE	Recorded	1	Illumination flare	In vertical flight	N/K	11-Oct, 23:55
	3-5km NE	Recorded	1	Illumination flare	In vertical flight	N/K	12-Oct, 00:01
	3-5km NE	Recorded	1	Projectile	SE to NW	N/K	12-Oct, 00:32
	3-5km N	Recorded	1	Projectile	SW to NE	N/K	12-Oct, 00:34
	3-5km NNE	Recorded	3	Projectile	W to E	N/K	12-Oct, 01:16
	3-5km N	Recorded	2	Projectile	SW to NE	N/K	12-Oct, 01:31
	3-5km NNE	Recorded	1	Projectile	SE to NW	N/K	12-Oct, 01:55
	3-5km N	Recorded	12	Projectile	W to E	N/K	12-Oct, 02:11
	3-5km N	Recorded	22	Projectile	W to E	N/K	12-Oct, 02:13
	3-5km N	Recorded	4	Projectile	E to W	N/K	12-Oct, 02:13
	4-6km NE	Recorded	1	Illumination flare		N/K	12-Oct, 02:18
	3-5km NE	Recorded	1	Illumination flare		N/K	12-Oct, 02:19
	3-5km N	Recorded	20	Projectile	SW to NE	N/K	12-Oct, 02:45
	3-5km N	Recorded	2	Projectile	SW to NE	N/K	12-Oct, 02:46
	3-5km N	Recorded	1	Projectile	E to W	N/K	12-Oct, 03:04
	4-6km NNE	Recorded	1	Explosion	Undetermined	N/K	12-Oct, 03:08
	3-5km N	Recorded	1	Projectile	SW to NE	N/K	12-Oct, 04:39
3-5km N	Recorded	6	Projectile	In vertical flight	N/K	12-Oct, 04:54	
4-6km NNE	Recorded	Uncountable	Explosion		N/K	12-Oct, 05:05	
3-5km N	Recorded	1	Projectile	SW to NE	N/K	12-Oct, 05:57	
Dokuchaievsk (non-government-controlled, 30km SW of Donetsk)	2-3km SW	Heard	1	Explosion	Undetermined	N/K	12-Oct, 07:24
About 2km N of Petrivske (non-government-controlled, 41km S of Donetsk)	2-3km W	Heard	3	Shot	Assessed as outside the disengagement area	Small arms	12-Oct, 09:37
	2-3km W	Heard	3	Shot	Assessed as outside the disengagement area	Small arms	12-Oct, 09:57
	2-3km SW	Heard	2	Explosion	Undetermined (assessed as inside the disengagement area)	N/K	12-Oct, 12:16-12:25

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	2-3km SW	Heard	16	Burst	Assessed as inside the disengagement area	HMG	12-Oct, 12:16-12:25
	2-3km SW	Heard	2	Shot	Assessed as inside the disengagement area	HMG	12-Oct, 12:16-12:25
	2-4km WNW	Heard	7	Burst	Assessed as outside the disengagement area	HMG	12-Oct, 12:28-12:32
	2-4km WNW	Heard	3	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	12-Oct, 12:37-12:39
	2-4km WNW	Heard	2	Burst	Assessed as outside the disengagement area	HMG	12-Oct, 12:37-12:39
	2-4km WNW	Heard	13	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	12-Oct, 12:40-12:49
	2-4km W	Heard	2	Burst	Assessed as outside the disengagement area	HMG	12-Oct, 12:51-12:53
	2-4km W	Heard	2	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	12-Oct, 12:53
	2-4km WNW	Heard	6	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	12-Oct, 12:55-12:58
	2-4km WNW	Heard	3	Burst	Assessed as outside the disengagement area	HMG	12-Oct, 12:58
Petrivske (non-government-controlled, 41km S of Donetsk)	700m SSW	Heard	1	Shot	Assessed as outside the disengagement area	Small arms	12-Oct, 15:25
	700m SSW	Heard	1	Shot	Assessed as outside the disengagement area	Small arms	12-Oct, 15:33
	700mSSW	Heard	1	Shot	Assessed as outside the disengagement area	Small arms	12-Oct, 15:44
	700m SSW	Heard	1	Shot	Assessed as outside the disengagement area	Small arms	12-Oct, 15:46
Staromykhailivka (non-government-controlled, 15km W of Donetsk)	3-5km WSW	Heard	4	Explosion	Undetermined	N/K	12-Oct, 15:35-15:40
Donetsk central railway station(non-government-controlled, 6km NW of Donetsk city centre)	2-3km NNW	Heard	18	Explosion	Undetermined	N/K	12-Oct, 09:40-09:52
	2-3km NNW	Heard	32	Explosion	Undetermined	N/K	12-Oct, 09:53-10:05
	2-3km NNW	Heard	3	Burst		HMG	12-Oct, 09:53-

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
							10:05
2.8km NNW of Luhanske (non-government-controlled, 15km SW of Donetsk)	8-10km NW	Heard	20	Explosion	Undetermined	N/K	12-Oct, 09:45
Oleksandrivka (non-government-controlled, 20km SW of Donetsk)	3-5km NE	Heard	25	Explosion	Undetermined	N/K	12-Oct, 09:50-10:00
Oleksandrivka (non-government-controlled, 20km SW of Donetsk)	3-5km NE	Heard	9	Burst		HMG	12-Oct, 09:50-10:00
About 1km E of Kruta Balka (non-government-controlled, 16km N of Donetsk)	3-4km NE	Heard	2	Shot		Small arms	12-Oct, 10:45
	3-4km NE	Heard	12	Burst		HMG	12-Oct, 11:02
About 1km NW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	1-2km NW	Heard	2	Burst		Small arms	12-Oct, 12:10
	1-2km NW	Heard	8	Shot		Small arms	12-Oct, 14:07
About 1km E of Bohdanivka (government-controlled, 41km SW of Donetsk)	3km NNW	Heard	2	Shot	Assessed as outside the disengagement area	Small arms	12-Oct, 09:57-09:58
	2km NW	Heard	2	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	12-Oct, 12:28-12:35
	2km NW	Heard	3	Burst	Assessed as outside the disengagement area	HMG	12-Oct, 12:28-12:35
	2-3km NW	Heard	13	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	12-Oct, 12:37-12:45
	2-3km NW	Heard	4	Burst	Assessed as outside the disengagement area	HMG	12-Oct, 12:37-12:45
	2-3km NW	Heard	7	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	12-Oct, 12:45-12:55
	2-3km NW	Heard	1	Burst	Assessed as outside the disengagement area	HMG	12-Oct, 12:45-12:55
	2-3km NW	Heard	9	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	12-Oct, 12:55-13:05
	2-3km NW	Heard	2	Burst	Assessed as outside the disengagement area	HMG	12-Oct, 12:55-13:05
	4-5km NW	Heard	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	12-Oct, 14:12
	4-5km WNW	Heard	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	12-Oct, 15:00
2.5km SSE of Lomakyne (government-controlled, 93km S	3-4km NE	Heard	2	Explosion	Undetermined	N/K	12-Oct, 11:20-11:25

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
of Donetsk)							
3km NE of Zaichenko (non-government-controlled, 93km S of Donetsk)	5km NW	Heard	1	Explosion	Undetermined	N/K	12-Oct, 10:53
	2-3km NW	Heard	2	Shot		Small arms	12-Oct, 10:53
	3-5km W	Heard	3	Explosion	Undetermined	N/K	12-Oct, 11:16-11:18
	3-5km W	Heard	18	Explosion	Undetermined	N/K	12-Oct, 11:19-11:29
	3-5km NW	Heard	2	Burst		Small arms	12-Oct, 11:19-11:29
	3-5km NW	Heard	Uncountable	Shot	Uncountable	Small arms	12-Oct, 11:19-11:29
	3-5km W	Heard	5	Explosion	Undetermined	N/K	12-Oct, 11:31-11:34
	3-5km W	Heard	21	Shot		Small arms	12-Oct, 11:31-11:34
	3-5km W	Heard	4	Explosion	Undetermined	N/K	12-Oct, 11:44-11:57
	3-5km W	Heard	Uncountable	Shot	Uncountable	Small arms	12-Oct, 11:44-11:57
	500m SSW	Heard	1	Burst		Small arms	12-Oct, 12:05
	3-5km W	Heard	6	Shot		Small arms	12-Oct, 12:21
	3-5km NE	Heard	1	Explosion	Undetermined	N/K	12-Oct, 12:50
Horlivka (non-government-controlled, 39km NE of Donetsk)	3-5km W	Heard	6	Burst		HMG	11-Oct, 18:53-18:59
	3-5km W	Heard	4	Explosion	Undetermined	N/K	11-Oct, 18:57-18:59
	3-5km W	Heard	6	Burst		Small arms	11-Oct, 19:00-19:03
	3-5km W	Heard	4	Explosion	Undetermined	N/K	11-Oct, 19:00-19:05
	3-5km W	Heard	12	Burst		HMG	11-Oct, 19:00-19:15
	3-5km W	Heard	2	Explosion	Undetermined	N/K	11-Oct, 19:14-19:15
	3-5km W	Heard	1	Explosion	Undetermined	N/K	11-Oct, 19:18
	3-5km W	Heard	9	Burst		HMG	11-Oct, 19:18-19:25
	5-8km NW	Heard	4	Burst		HMG	11-Oct, 19:56
	3-5km W	Heard	1	Explosion	Undetermined	N/K	11-Oct, 20:25
	3-5km W	Heard	1	Explosion	Undetermined	N/K	11-Oct, 20:32
About 7.5km NW of Horlivka (non-government controlled, 39 km NE of Donetsk)	1-2km NW	Heard	3	Burst		Small arms	12-Oct, 11:22
	1-2km NW	Heard	5	Shot		Small arms	12-Oct, 11:25
	1-2km NW	Heard	7	Shot		Small arms	12-Oct, 11:27
	1-2km NW	Heard	12	Burst		HMG	12-Oct, 11:27-11:37
	1-2km NW	Heard	15	Burst		Small arms	12-Oct, 11:27-11:37
	1-2km NW	Heard	35	Shot		Small arms	12-Oct, 11:27-11:37
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	3-5km SSE	Heard	1	Explosion	Undetermined	N/K	12-Oct, 11:26
Svitlodarsk (government-controlled, 57km NE of Donetsk)	3-4km SE	Heard	25	Burst		HMG	11-Oct, 20:40-20:44
	3-4km SE	Heard	20	Burst		HMG	11-Oct, 20:45-20:50
	4-5km S	Heard	1	Explosion	Undetermined	N/K	11-Oct, 20:50
	3-5km SE	Heard	35	Burst		HMG	11-Oct, 21:43-21:47
	3-5km SE	Heard	22	Burst		HMG	11-Oct, 22:14-22:19

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	4-5km SE	Heard	5	Explosion	Undetermined	N/K	11-Oct, 22:30-22:33
	4-5km S	Heard	5	Explosion	Undetermined	N/K	11-Oct, 22:36-22:41
	4-5km S	Heard	8	Explosion	Undetermined	N/K	11-Oct, 22:43-22:47
	4-5km SE	Heard	4	Explosion	Undetermined	N/K	11-Oct, 22:48-22:51
	4-5km SE	Heard	1	Explosion	Undetermined	N/K	11-Oct, 22:55
	4-5km SW	Heard	3	Explosion	Undetermined	N/K	12-Oct, 17:32
3.5km W of Kalynove (non-government controlled, 60km W of Luhansk)	3-6km W	Heard	7	Burst		HMG	12-Oct, 10:05-10:12
	3-6km W	Heard	1	Explosion	Undetermined	N/K	12-Oct, 10:23
	3-6km W	Heard	6	Burst		HMG	12-Oct, 10:23-10:25
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	2-4km SSE	Recorded	2	Projectile	WSW to ENE	N/K	12-Oct, 20:34
	2-4km SSE	Recorded	1	Projectile	WSW to ENE	N/K	12-Oct, 20:47
	3-5km SSE	Recorded	1	Projectile	WSW to ENE	N/K	12-Oct, 20:51
	2-4km SSE	Recorded	1	Projectile	WSW to ENE	N/K	12-Oct, 20:57
	2-3km SSE	Recorded	30	Projectile	WNW to ESE	N/K	12-Oct, 20:59
	2-3km S	Recorded	Uncountable	Projectile	WNW to ESE	N/K	12-Oct, 21:39
	6-8km SSE	Recorded	2	Projectile	In vertical flight	N/K	12-Oct, 23:39
	3-5km SSE	Recorded	2	Projectile	ENE to WSW	N/K	13-Oct, 03:11
	3-5km SSE	Recorded	1	Projectile	In vertical flight	N/K	13-Oct, 03:26
3-5km SSE	Recorded	1	Projectile	ENE to WSW	N/K	13-Oct, 03:41	
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	200-400m SSW	Recorded	1	Explosion	Undetermined	N/K	13-Oct, 00:12
	0.9-1.2km S	Recorded	1	Muzzle flash		N/K	13-Oct, 01:39
	0.9-1.2km S	Recorded	1	Explosion	Impact	N/K	13-Oct, 01:39
	1-2km S	Recorded	1	Projectile	NW to SE	N/K	13-Oct, 02:06
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	13-Oct, 02:06
	0.7-1km S	Recorded	1	Explosion	Undetermined	N/K	13-Oct, 03:44
300-500m S	Recorded	1	Muzzle flash		N/K	13-Oct, 05:36	
SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk)	5-7km ENE	Recorded	1	Illumination flare	In vertical flight	N/K	13-Oct, 03:59
	4-6km E	Recorded	7	Projectile	SSW to NNE	N/K	13-Oct, 04:46
SMM camera in Krasnohorivka (government-controlled, 21km W of Donetsk)	1-3km ESE	Recorded	4	Projectile	WSW to ENE	N/K	12-Oct, 23:00
	1-3km ESE	Recorded	1	Projectile	NNE to SSW	N/K	12-Oct, 23:00
	1-3km ESE	Recorded	3	Muzzle flash		N/K	12-Oct, 23:00
	2-4km ESE	Recorded	1	Explosion	Undetermined	N/K	12-Oct, 23:00
	1-3km ESE	Recorded	1	Projectile	WNW to ESE	N/K	12-Oct, 23:00
	2-4km ESE	Recorded	1	Projectile	WSW to ENE	N/K	12-Oct, 23:01
	2-4km ESE	Recorded	2	Projectile	W to E	N/K	12-Oct, 23:14
	2-4km ESE	Recorded	1	Projectile	NE to SW	N/K	12-Oct, 23:14
	2-4km ESE	Recorded	1	Explosion		N/K	13-Oct, 01:49
	2-4km ESE	Recorded	1	Projectile	NNE to SSW	N/K	13-Oct, 01:50
	1-3km ESE	Recorded	1	Projectile	NNW to SSE	N/K	13-Oct, 01:50
1-3km ESE	Recorded	3	Projectile	NNE to SSW	N/K	13-Oct, 01:51	
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	1-3km ENE	Recorded	1	Projectile	SW to NE	N/K	12-Oct, 20:09
	2-4km ENE	Recorded	1	Projectile	N to S	N/K	12-Oct, 22:01
	2-4km E	Recorded	1	Projectile	NNW to SSE	N/K	12-Oct, 22:01
	2-4km E	Recorded	1	Projectile	N to S	N/K	12-Oct, 22:08
	2-4km ENE	Recorded	1	Projectile	NNW to SSE	N/K	12-Oct, 22:10
	2-4km ENE	Recorded	1	Projectile	S to N	N/K	12-Oct, 22:14
	2-4km E	Recorded	1	Projectile	N to S	N/K	12-Oct, 22:18
	2-4km ENE	Recorded	Uncountable	Projectile	NE to SW	N/K	12-Oct, 22:23
	2-4km E	Recorded	4	Projectile	In vertical flight	N/K	13-Oct, 00:09
	2-4km ENE	Recorded	1	Muzzle flash		N/K	13-Oct, 00:49
	2-4km ENE	Recorded	5	Projectile	N to S	N/K	13-Oct, 00:56
	2-4km E	Recorded	6	Projectile	NW to SE	N/K	13-Oct, 02:11
	2-4km E	Recorded	4	Projectile	N to S	N/K	13-Oct, 03:33
	2-4km E	Recorded	3	Projectile	WNW to ESE	N/K	13-Oct, 03:33
2-4km E	Recorded	1	Muzzle		N/K	13-Oct, 03:33	

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
				flash			
	2-4km E	Recorded	4	Projectile	S to N	N/K	13-Oct, 04:10
	2-4km E	Recorded	2	Projectile	SW to NE	N/K	13-Oct, 04:10
	2-4km E	Recorded	5	Projectile	S to N	N/K	13-Oct, 04:11
	2-4km ENE	Recorded	2	Projectile	N to S	N/K	13-Oct, 04:15
SMM camera at entry-exit checkpoint in Marinka (government- controlled, 23km SW of Donetsk)	3-5km NNE	Recorded	1	Explosion	Airburst	N/K	13-Oct, 01:50
	1-3km NNE	Recorded	9	Projectile	SW to NE	N/K	13-Oct, 03:17
	3-5km NNE	Recorded	2	Projectile	SE to NW	N/K	13-Oct, 03:17
	3-5km NNE	Recorded	1	Projectile	SE to NW	N/K	13-Oct, 03:18
	2-4km NNE	Recorded	2	Projectile	WSW to ENE	N/K	13-Oct, 04:37
	2-4km NNE	Recorded	5	Projectile	WSW to ENE	N/K	13-Oct, 04:39
	2-4km NNE	Recorded	4	Projectile	WSW to ENE	N/K	13-Oct, 04:40
	2-4km NNE	Recorded	5	Projectile	WSW to ENE	N/K	13-Oct, 04:41
	2-4km NNE	Recorded	8	Projectile	WSW to ENE	N/K	13-Oct, 04:42
	2-4km NNE	Recorded	5	Projectile	WSW to ENE	N/K	13-Oct, 04:43
	2-4km NNE	Recorded	9	Projectile	WSW to ENE	N/K	13-Oct, 04:44
	2-4km NNE	Recorded	21	Projectile	WSW to ENE	N/K	13-Oct, 04:45
	2-4km NNE	Recorded	2	Projectile	WSW to ENE	N/K	13-Oct, 04:58
	2-4km NNE	Recorded	3	Projectile	WSW to ENE	N/K	13-Oct, 04:59
	2-4km NNE	Recorded	1	Projectile	WSW to ENE	N/K	13-Oct, 05:00
	2-4km NNE	Recorded	6	Projectile	WSW to ENE	N/K	13-Oct, 05:01
	2-4km NNE	Recorded	15	Projectile	WSW to ENE	N/K	13-Oct, 05:02
2-4km NNE	Recorded	3	Projectile	WSW to ENE	N/K	13-Oct, 05:03	
2-4km NNE	Recorded	1	Projectile	WSW to ENE	N/K	13-Oct, 05:04	
2-4km NNE	Recorded	2	Projectile	WSW to ENE	N/K	13-Oct, 05:05	
SMM camera at Oktiabr mine (non-government-controlled, 9km NW of Donetsk city centre)	2-4km NE	Recorded	2	Projectile	NW to SE	N/K	13-Oct, 00:27
SMM camera at entry-exit checkpoint in Pyshevyk (government-controlled, 84km S of Donetsk)	3-5km S	Recorded	1	Projectile	WNW to ESE	N/K	13-Oct, 01:03
	3-5km S	Recorded	1	Projectile	WNW to ESE	N/K	13-Oct, 01:06
	3-5km S	Recorded	1	Projectile	WNW to ESE	N/K	13-Oct, 01:45
	3-5km S	Recorded	1	Projectile	WNW to ESE	N/K	13-Oct, 04:34
	3-5km S	Recorded	20	Projectile	WNW to ESE	N/K	13-Oct, 04:38
	3-5km S	Recorded	1	Burst	WNW to ESE	N/K	13-Oct, 05:09
	3-5km S	Recorded	1	Burst	WNW to ESE	N/K	13-Oct, 05:17
	3-5km S	Recorded	1	Projectile	ENE to WSW	N/K	13-Oct, 05:18
	3-5km S	Recorded	1	Burst	WNW to ESE	N/K	13-Oct, 05:18
3-5km S	Recorded	1	Burst	WNW to ESE	N/K	13-Oct, 05:19	
SMM camera 1km SW of Shyrokyne (government-controlled, 100km S of Donetsk)	3-5km NNE	Recorded	3	Projectile	W to E	N/K	12-Oct, 21:05
	3-5km NNE	Recorded	2	Projectile	SW to NE	N/K	12-Oct, 21:05
	3-5km N	Recorded	1	Projectile	S to N	N/K	12-Oct, 21:05
	3-5km N	Recorded	8	Projectile	W to E	N/K	12-Oct, 21:06
	3-5km NNE	Recorded	1	Projectile	NNW to SSE	N/K	12-Oct, 21:06
	3-5km NNE	Recorded	1	Projectile	WSW to ENE	N/K	12-Oct, 21:06
	3-5km N	Recorded	4	Projectile	W to E	N/K	12-Oct, 21:07
	3-5km N	Recorded	2	Projectile	W to E	N/K	12-Oct, 21:08
	3-5km N	Recorded	1	Projectile	SE to NW	N/K	12-Oct, 21:08
	3-5km N	Recorded	2	Projectile	W to E	N/K	12-Oct, 22:19
	3-5km N	Recorded	3	Projectile	W to E	N/K	12-Oct, 22:52
	3-5km N	Recorded	12	Projectile	W to E	N/K	12-Oct, 22:54
3-5km N	Recorded	5	Projectile	ESE to WNW	N/K	12-Oct, 23:04	
4-7km N	Recorded	1	Projectile	SW to NE	N/K	12-Oct, 23:25	
About 3km WSW of Donetsk central railway station (non-government-controlled, 6km NW of Donetsk city centre)	1-2km NW	Heard	1	Explosion	Outgoing	N/K	13-Oct, 13:00
About 800m SSE of Novohryhorivka (non-government-controlled, 61km NE of Donetsk)	2-4km N	Heard	1	Explosion	Undetermined	N/K	13-Oct, 15:05
Svitlodarsk (government-controlled, 57km NE of Donetsk)	4-5km SE	Heard	1	Explosion	Undetermined	N/K	12-Oct, 20:30
	4-5km S	Heard	7	Explosion	Undetermined	N/K	12-Oct, 21:30-21:34
	4-5km S	Heard	5	Explosion	Undetermined	N/K	12-Oct, 22:31-22:34

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	4-5km SE	Heard	13	Explosion	Undetermined	N/K	12-Oct, 22:42-22:46
	4-5km SE	Heard	20	Burst		HMG	12-Oct, 22:46-22:50
	4-5km S	Heard	9	Explosion	Undetermined	N/K	12-Oct, 22:50-22:53
	4-5km S	Heard	4	Explosion	Undetermined	N/K	12-Oct, 23:01-23:05
	3-5km SW	Heard	5	Explosion	Undetermined	N/K	13-Oct, 15:26-15:30
	3-5km WSW	Heard	2	Explosion	Undetermined	N/K	13-Oct, 15:28
	3-5km WSW	Heard	5	Explosion	Undetermined	N/K	13-Oct, 16:10-16:12
	3-5km WSW	Heard	7	Explosion	Undetermined	N/K	13-Oct, 16:17-16:19
	3-5km WSW	Heard	4	Explosion	Undetermined	N/K	13-Oct, 16:23
Horlivka (non-government-controlled, 39km NE of Donetsk)	2-4km NW	Heard	2	Burst		HMG	12-Oct, 19:30
	2-4km NW	Heard	21	Burst		HMG	12-Oct, 21:48-21:52
	2-4km NW	Heard	3	Shot		Small arms	12-Oct, 23:15
	2-4km NW	Heard	8	Burst		HMG	12-Oct, 23:33-23:37
	2-4km NE	Heard	11	Shot		Small arms	12-Oct, 23:37-23:42
	2-4km NW	Heard	15	Shot		Small arms	12-Oct, 23:38
	2-4km NE	Heard	4	Burst		HMG	12-Oct, 23:43
	2-4km NW	Heard	12	Shot		Small arms	12-Oct, 23:44
	2-4km NW	Heard	20	Burst		HMG	12-Oct, 23:45-23:47
	2-4km NW	Heard	3	Explosion	Undetermined	N/K	12-Oct, 23:48-23:53
	2-4km S	Heard	2	Explosion	Undetermined	N/K	13-Oct, 00:08-00:09
SMM camera in Zolote (government-controlled, 60km W of Luhansk)	3-5km ENE	Recorded	2	Projectile	SSW to NNE (assessed as outside the disengagement area)	N/K	12-Oct, 21:06
	3-4km ESE	Recorded	1	Muzzle flash	Assessed as outside the disengagement area	N/K	12-Oct, 21:12
	3-5km E	Recorded	1	Projectile	N to S (assessed as outside the disengagement area)	N/K	12-Oct, 23:23
	3-5km E	Recorded	1	Projectile	WNW to ESE (assessed as outside the disengagement area)	N/K	12-Oct, 23:23
E edge of Stanytsia Luhanska (government-controlled, 16km NE of Luhansk)	3-4km S	Heard	1	Explosion	Undetermined (unable to assess whether inside or outside the disengagement area)	N/K	13-Oct, 06:32