

**Table of ceasefire violations as of 29 September 2019<sup>1</sup>**

<b>SMM position</b>	<b>Event location</b>	<b>Means</b>	<b>No.</b>	<b>Observation</b>	<b>Description</b>	<b>Weapon</b>	<b>Date, time</b>
SMM camera in Berezove (government-controlled, 31km SW of Donetsk)	2-4km SSE	Recorded	1	Muzzle flash		N/K	27-Sep, 21:26
	2-4km SSE	Recorded	1	Projectile	SW to NE (subsequent to previous event)	N/K	27-Sep, 21:26
	2-4km SSE	Recorded	1	Muzzle flash		N/K	27-Sep, 21:27
	2-4km SSE	Recorded	1	Projectile	SW to NE (subsequent to previous event)	N/K	27-Sep, 21:27
	2-4km SSE	Recorded	1	Muzzle flash		N/K	27-Sep, 21:30
	2-4km SSE	Recorded	1	Projectile	SW to NE (subsequent to previous event)	N/K	27-Sep, 21:30
	2-4km SE	Recorded	6	Explosion	Undetermined	N/K	27-Sep, 21:30
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	3-4km SSE	Recorded	4	Projectile	W to E	N/K	27-Sep, 23:29
	3-4km SSE	Recorded	12	Projectile	W to E	N/K	28-Sep, 00:21
	2-3km SSE	Recorded	1	Explosion	Undetermined	N/K	28-Sep, 01:18
	2-3km SSE	Recorded	1	Explosion	Airburst	N/K	28-Sep, 01:51
	2-3km SSE	Recorded	2	Projectile	W to E	N/K	28-Sep, 05:26
	2-3km SSE	Recorded	2	Projectile	W to E	N/K	28-Sep, 05:29
	2-3km SSE	Recorded	5	Projectile	W to E	N/K	28-Sep, 05:39
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	3-4km S	Recorded	1	Illumination flare	In vertical flight	N/K	27-Sep, 21:53
	3-4km S	Recorded	1	Illumination flare	In vertical flight	N/K	27-Sep, 21:54
	1-2km SSW	Recorded	8	Projectile	WNW to ESE	N/K	27-Sep, 22:45
SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk)	3-5km ESE	Recorded	1	Projectile	NW to SE	N/K	27-Sep, 19:20
	3-5km ESE	Recorded	1	Projectile	SW to NE	N/K	27-Sep, 19:20
	3-5km ESE	Recorded	2	Projectile	SW to NE (also recorded by SMM camera in Chermalyk)	N/K	27-Sep, 19:21
	3-5km ESE	Recorded	1	Explosion	Undetermined (also recorded SMM camera in Chermalyk)	N/K	27-Sep, 19:21
	3-5km E	Recorded	9	Explosion	Also recorded by SMM cameras in Chermalyk and Pyshevyk	N/K	27-Sep, 19:36
	1-3km E	Recorded	3	Explosion	Also recorded by SMM cameras in Chermalyk and Pyshevyk	N/K	27-Sep, 19:45
	1-3km E	Recorded	1	Projectile	Also recorded by SMM cameras in Chermalyk and Pyshevyk	N/K	27-Sep, 19:45
	1-3km E	Recorded	1	Explosion	NW to SE (also recorded by SMM cameras in Chermalyk and Pyshevyk)	N/K	27-Sep, 19:45
	1-3km E	Recorded	1	Explosion	Outgoing	N/K	27-Sep, 19:47
	1-3km E	Recorded	1	Projectile	NNW to SSE	N/K	27-Sep, 19:47
	1-3km E	Recorded	1	Explosion	Impact	N/K	27-Sep, 19:47
	1-3km E	Recorded	1	Explosion	Outgoing (also recorded by SMM cameras in Chermalyk and Pyshevyk)	N/K	27-Sep, 19:48
	1-3km E	Recorded	1	Explosion	Impact, subsequent to previous event (also recorded by Chermalyk and Pyshevyk cameras)	N/K	27-Sep, 19:48
	1-3km E	Recorded	1	Projectile	NW to SE	N/K	27-Sep, 19:51

<sup>1</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 position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	1-3km E	Recorded	1	Explosion	Impact, subsequent to previous event (also recorded by SMM cameras in Chermalyk and Pyshevyk)	N/K	27-Sep, 19:51
	1-3km E	Recorded	1	Explosion	Outgoing (also recorded by SMM cameras in Chermalyk and Pyshevyk)	N/K	27-Sep, 19:51
	2-4km E	Recorded	4	Explosion	Undetermined (also recorded by SMM cameras in Pyshevyk)	N/K	27-Sep, 19:53
	1-3km E	Recorded	1	Explosion	Outgoing (also recorded by SMM cameras in Chermalyk and Pyshevyk)	N/K	27-Sep, 20:00
	1-3km E	Recorded	1	Explosion	Impact, subsequent to previous event (also recorded by SMM cameras in Chermalyk and Pyshevyk)	N/K	27-Sep, 20:00
	1-3km E	Recorded	1	Projectile	N to S (also recorded by the SMM cameras in Pyshevyk and Chermalyk)	N/K	27-Sep, 20:11
	2-4km E	Recorded	1	Explosion	Undetermined (also recorded by Pyshevyk and Chermalyk cameras)	N/K	27-Sep, 20:11
	1-3km E	Recorded	2	Projectile	NNW to SSE (also recorded by SMM cameras in Pyshevyk and Chermalyk)	N/K	27-Sep, 20:12
	1-3km E	Recorded	1	Explosion	Undetermined (also recorded by SMM cameras in Pyshevyk and Chermalyk)	N/K	27-Sep, 20:12
SMM camera E of Lomakyne (government-controlled, 90km S of Donetsk)	3-5km NE	Recorded	1	Explosion	Undetermined	N/K	28-Sep, 03:07
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	2-4km E	Recorded	4	Projectile	N to S	N/K	27-Sep, 20:37
	2-4km E	Recorded	1	Projectile	In vertical flight	N/K	27-Sep, 20:37
	2-4km ENE	Recorded	12	Projectile	N to S	N/K	27-Sep, 20:57
	2-4km ENE	Recorded	1	Explosion	Impact	N/K	27-Sep, 20:57
	2-4km ENE	Recorded	7	Projectile	N to S	N/K	27-Sep, 20:58
	2-4km ENE	Recorded	1	Projectile	In vertical flight	N/K	27-Sep, 20:58
	2-4km ENE	Recorded	1	Explosion	Airburst, subsequent to previous event	N/K	27-Sep, 20:58
	2-4km ENE	Recorded	1	Explosion	Impact	N/K	27-Sep, 21:26
	2-4km ENE	Recorded	8	Projectile	N to S	N/K	27-Sep, 22:38
SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)	6-8km N	Recorded	4	Projectile	W to E (also recorded by SMM cameras in Krasnohorivka)	N/K	27-Sep, 18:53
	6-8km NNE	Recorded	3	Explosion	Airburst (also recorded by SMM camera in Krasnohorivka)	N/K	27-Sep, 18:53
	6-8km NNE	Recorded	1	Projectile	In vertical flight	N/K	27-Sep, 18:53
	2-4km N	Recorded	3	Muzzle flash		N/K	27-Sep, 23:51
	2-4km NNE	Recorded	3	Explosion	Undetermined	N/K	27-Sep, 23:51
	2-4km NNE	Recorded	4	Projectile	W to E	N/K	27-Sep, 23:51
	2-4km N	Recorded	1	Muzzle flash		N/K	27-Sep, 23:52
	2-4km NNE	Recorded	2	Projectile	W to E, subsequent to previous event	N/K	27-Sep, 23:52
	2-4km NNE	Recorded	1	Explosion	Impact, subsequent to previous event	N/K	27-Sep, 23:52
	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	27-Sep, 23:52
	2-4km N	Recorded	1	Muzzle flash		N/K	27-Sep, 23:53
	2-4km NNE	Recorded	1	Projectile	WSW to ENE, subsequent to previous event	N/K	27-Sep, 23:53
	2-4km NNE	Recorded	7	Projectile	W to E	N/K	27-Sep, 23:54

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time	
	2-4km NNE	Recorded	2	Muzzle flash		N/K	27-Sep, 23:55	
	2-4km NNE	Recorded	1	Projectile	W to E, subsequent to previous event	N/K	27-Sep, 23:55	
	2-4km NNE	Recorded	1	Projectile	W to E	N/K	27-Sep, 23:57	
	2-4km NNE	Recorded	1	Muzzle flash		N/K	27-Sep, 23:57	
	2-4km NNE	Recorded	1	Projectile	W to E, subsequent to previous event	N/K	27-Sep, 23:57	
	2-4km NNE	Recorded	1	Explosion	Impact, subsequent to previous event	N/K	27-Sep, 23:57	
	2-4km NNE	Recorded	1	Projectile	W to E	N/K	27-Sep, 23:58	
	2-4km N	Recorded	1	Explosion	Undetermined	N/K	28-Sep, 00:18	
	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	28-Sep, 00:19	
	2-4km NNE	Recorded	1	Muzzle flash		N/K	28-Sep, 00:31	
	2-4km NNE	Recorded	2	Projectile	W to E, subsequent to previous event	N/K	28-Sep, 00:31	
	2-4km NNE	Recorded	1	Explosion		N/K	28-Sep, 00:31	
	2-4km NNE	Recorded	1	Projectile	W to E	N/K	28-Sep, 00:35	
	2-4km NNE	Recorded	3	Muzzle flash		N/K	28-Sep, 00:36	
	2-4km NNE	Recorded	3	Projectile	W to E, subsequent to previous event	N/K	28-Sep, 00:36	
	2-4km NNE	Recorded	3	Explosion		N/K	28-Sep, 00:36	
	2-4km NNE	Recorded	13	Projectile	W to E	N/K	28-Sep, 00:39	
	2-4km NNE	Recorded	8	Projectile	W to E	N/K	28-Sep, 00:40	
	2-4km NNE	Recorded	1	Projectile	W to E	N/K	28-Sep, 00:42	
	2-4km NNE	Recorded	1	Projectile	W to E	N/K	28-Sep, 00:44	
	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	28-Sep, 00:44	
	2-4km NNE	Recorded	2	Explosion	Undetermined	N/K	28-Sep, 00:45	
	2-4km NNE	Recorded	1	Muzzle flash		N/K	28-Sep, 00:45	
	2-4km NNE	Recorded	1	Projectile	W to E, subsequent to previous event	N/K	28-Sep, 00:45	
	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	28-Sep, 00:49	
	2-4km NNE	Recorded	1	Muzzle flash		N/K	28-Sep, 00:54	
	2-4km NNE	Recorded	3	Projectile	W to E	N/K	28-Sep, 01:07	
	SMM camera at entry-exit checkpoint in Pyshevyk (government-controlled, 84km S of Donetsk)	2-4km SSE	Recorded	1	Projectile	E to W	N/K	27-Sep, 19:17
		3-5km S	Recorded	2	Projectile	W to E	N/K	27-Sep, 19:18
		3-5km S	Recorded	3	Projectile	WNW to ESE	N/K	27-Sep, 19:19
		6-8km S	Recorded	1	Projectile	W to E	N/K	27-Sep, 19:22
		2-4km S	Recorded	3	Projectile	E to W	N/K	27-Sep, 19:33
2-4km SSE		Recorded	2	Projectile	E to W	N/K	27-Sep, 19:57	
2-4km SSE		Recorded	1	Projectile	E to W	N/K	27-Sep, 19:58	
2-4km SSE		Recorded	1	Muzzle flash		N/K	27-Sep, 20:00	
2-4km SSE		Recorded	1	Explosion	Airburst	N/K	27-Sep, 20:11	
2-4km SSE		Recorded	1	Projectile	E to W	N/K	27-Sep, 20:11	
2-4km SSE		Recorded	4	Explosion	Undetermined (also recorded by SMM camera in Hnutove)	N/K	27-Sep, 20:12	
3-5km S		Recorded	2	Projectile	W to E	N/K	27-Sep, 20:24	
6-8km S		Recorded	3	Projectile	W to E	N/K	27-Sep, 20:31	
2-4km S		Recorded	3	Projectile	E to W	N/K	27-Sep, 20:32	
2-4km S		Recorded	2	Projectile	W to E	N/K	27-Sep, 20:32	
5-7km S		Recorded	1	Explosion	Undetermined (also recorded by SMM camera in Lomakyne)	N/K	27-Sep, 21:30	
2-4km S		Recorded	5	Projectile	W to E	N/K	27-Sep, 23:45	
3-5km S		Recorded	1	Projectile	W to E	N/K	27-Sep, 23:46	
3-5km S		Recorded	1	Projectile	W to E	N/K	28-Sep, 03:01	
3-5km S		Recorded	9	Projectile	W to E	N/K	28-Sep, 03:07	
3-5km S		Recorded	7	Projectile	W to E	N/K	28-Sep, 03:08	
3-5km S		Recorded	1	Projectile	W to E	N/K	28-Sep, 03:09	
3-5km S		Recorded	4	Projectile	W to E	N/K	28-Sep, 03:10	
3-5km S		Recorded	3	Projectile	W to E	N/K	28-Sep, 03:11	
SMM camera in Svitlodarsk (government-		1-3km ESE	Recorded	1	Projectile	In vertical flight	N/K	27-Sep, 19:01
		1-3km ESE	Recorded	1	Projectile		N/K	27-Sep, 19:05

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
controlled, 57km NE of Donetsk)	2-4km ESE	Recorded	1	Projectile	S to N	N/K	27-Sep, 19:19
	2-4km S	Recorded	4	Projectile	N to S	N/K	27-Sep, 19:24
	3-4km ESE	Recorded	1	Projectile	In vertical flight, subsequent to previous event	N/K	27-Sep, 19:28
	3-4km ESE	Recorded	1	Projectile	S to N	N/K	27-Sep, 19:29
	3-4km S	Recorded	15	Projectile	N to S	N/K	27-Sep, 19:31
	3-4km S	Recorded	14	Projectile	N to S	N/K	27-Sep, 19:32
	3-4km ESE	Recorded	1	Projectile	N to S, subsequent to previous event	N/K	27-Sep, 19:36
	2-4km ESE	Recorded	6	Projectile	S to N	N/K	27-Sep, 20:55
	2-4km ESE	Recorded	1	Projectile	S to N	N/K	27-Sep, 21:16
NE part of Avdiivka (government-controlled, 17km N of Donetsk)	4-6km NNW	Heard	7	Explosion	Undetermined	N/K	28-Sep, 13:17-13:19
	4-6km NNW	Heard	5	Explosion	Undetermined	N/K	28-Sep, 13:25
	4-6km NNW	Heard	6	Explosion	Undetermined	N/K	28-Sep, 13:29
E part of Avdiivka (government-controlled, 17km N of Donetsk)	2-3km SSE	Heard	3	Shot		Small arms	28-Sep, 11:44
SE part of Avdiivka (government-controlled, 17km N of Donetsk)	8-10km W	Heard	2	Explosion	Undetermined	N/K	28-Sep, 09:45-10:00
	2-3km S	Heard	1	Shot		Small arms	28-Sep, 10:05
	1-2km SE	Heard	1	Shot		Small arms	28-Sep, 10:07
Trudivski area of Donetsk's Petrovskiy district (non-government-controlled, 15km SW of Donetsk city centre)	2-3km N	Heard	17	Burst		HMG	28-Sep, 11:30-11:38
	2-3km N	Heard	42	Explosion	Undetermined	N/K	28-Sep, 11:30-11:38
Krasnohorivka (government-controlled, 21km W of Donetsk)	2-3km E	Heard	1	Shot		Small arms	28-Sep, 11:18
	2-3km E	Heard	2	Burst		HMG	28-Sep, 11:18
	2-3km E	Heard	2	Shot		Small arms	28-Sep, 11:19
	2-3km E	Heard	2	Burst		HMG	28-Sep, 11:30
	2-3km E	Heard	1	Explosion	Undetermined	N/K	28-Sep, 11:30
	2-3km SE	Heard	14	Burst		HMG	28-Sep, 11:32-11:40
	1-2km SE	Heard	4	Burst		HMG	28-Sep, 11:41
	1-2km SE	Heard	4	Burst		HMG	28-Sep, 11:42
About 2km NE of Bohdanivka (government-controlled, 41km SW of Donetsk)	1-2km NW	Heard	1	Burst	Assessed outside Petrivske disengagement area	HMG	28-Sep, 10:41
	1-2km NW	Heard	8	Burst	Assessed outside disengagement area	HMG	28-Sep, 11:02-11:07
	1-2km NW	Heard	4	Burst	Assessed outside disengagement area	HMG	28-Sep, 11:14
	1-2km SE	Heard	3	Shot	Assessed inside disengagement area	Small arms	28-Sep, 11:31
	2-3km NNW	Heard	1	Shot	Assessed outside disengagement area	Small arms	28-Sep, 11:02-11:05
	2-3km NNW	Heard	3	Burst	Assessed outside disengagement area	Small arms	28-Sep, 11:02-11:05
	2-3km NNW	Heard	2	Burst	Assessed outside disengagement area	Small arms	28-Sep, 11:06
	2-3km N	Heard	6	Burst	Assessed outside disengagement area	Small arms	28-Sep, 11:14
	2-3km SE	Heard	13	Shot	Assessed inside disengagement area	Small arms	28-Sep, 12:05
Orlivske (government-controlled, 23km NE of Mariupol)	5-6km SSE	Heard	2	Explosion	Undetermined	N/K	28-Sep, 11:15
Svitlodarsk (government-controlled, 57km NE of Donetsk)	4-6km SE	Heard	1	Explosion	Undetermined	N/K	27-Sep, 18:34
	3-5km E	Heard	5	Explosion	Undetermined	N/K	27-Sep, 18:45-18:46

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time	
Donetsk)	3-5km SE	Heard	6	Explosion	Undetermined	N/K	27-Sep, 18:47-18:48	
	2-4km S	Heard	2	Shot		Small arms	27-Sep, 18:48	
	3-5km SE	Heard	15	Burst		HMG	27-Sep, 18:49	
	3-5km SE	Heard	9	Explosion	Undetermined	N/K	27-Sep, 18:48-18:50	
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	27-Sep, 18:55	
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	27-Sep, 18:58	
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	27-Sep, 19:01	
	3-5km SE	Heard	2	Explosion	Undetermined	N/K	27-Sep, 19:02	
	4-6km SW	Heard	2	Explosion	Undetermined	N/K	27-Sep, 19:05	
	3-5km SE	Heard	2	Explosion	Undetermined	N/K	27-Sep, 19:05	
	3-5km SE	Heard	4	Explosion	Undetermined	N/K	27-Sep, 19:08-19:10	
	4-6km S	Heard	2	Explosion	Undetermined	N/K	27-Sep, 19:11-19:12	
	2-3km SE	Heard	3	Burst		Small arms	27-Sep, 19:13	
	5-7km S	Heard	2	Explosion	Undetermined	N/K	27-Sep, 19:14	
	3-5km SE	Heard	8	Explosion	Undetermined	N/K	27-Sep, 19:17-19:19	
	3-5km SE	Heard	7	Explosion	Undetermined	N/K	27-Sep, 19:20-19:22	
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	27-Sep, 19:27	
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	27-Sep, 19:58	
	4-6km SW	Heard	15	Burst		HMG	27-Sep, 20:07	
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	27-Sep, 20:13	
	2-3km SE	Heard	7	Burst		Small arms	27-Sep, 20:40-20:45	
	4-6km SE	Heard	1	Explosion	Undetermined	N/K	27-Sep, 20:58	
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	27-Sep, 21:12	
	2-3km SE	Heard	5	Burst		Small arms	27-Sep, 21:12	
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	27-Sep, 21:17	
	3-4km SE	Heard	10	Explosion	Undetermined	N/K	27-Sep, 21:31-21:36	
	3-4km SE	Heard	3	Explosion	Undetermined	N/K	27-Sep, 21:40-21:45	
	3-4km SE	Heard	3	Explosion	Undetermined	N/K	27-Sep, 21:58	
	2-3km	Heard	3	Burst		Small arms	27-Sep, 21:58	
	3-4km	Heard	2	Explosion	Undetermined	N/K	27-Sep, 22:15	
	3-4km	Heard	13	Burst		HMG	27-Sep, 22:55	
	3-4km	Heard	9	Explosion	Undetermined	N/K	27-Sep, 23:05-23:07	
	3-4km	Heard	2	Explosion	Undetermined	N/K	27-Sep, 23:10	
	3-5km	Heard	2	Explosion	Undetermined	N/K	27-Sep, 23:23	
	3-5km	Heard	5	Burst		HMG	27-Sep, 23:31	
	2-3km	Heard	2	Burst		Small arms	27-Sep, 23:32	
	3-5km	Heard	2	Explosion	Undetermined	N/K	27-Sep, 23:35	
	2-3km	Heard	17	Burst		Small arms	27-Sep, 23:37-23:40	
	3-5km	Heard	2	Explosion	Undetermined	N/K	27-Sep, 23:52	
	3-5km	Heard	1	Explosion	Undetermined	N/K	27-Sep, 23:58	
	5-6km W	Heard	1	Explosion	Undetermined	N/K	28-Sep, 09:19	
	3-4km SE	Heard	1	Explosion	Undetermined	N/K	28-Sep, 11:05	
	3-4km SE	Heard	1	Explosion	Undetermined	N/K	28-Sep, 11:43	
	3-4km SE	Heard	1	Explosion	Undetermined	N/K	28-Sep, 12:44	
	3-4km SE	Heard	1	Explosion	Undetermined	N/K	28-Sep, 13:09	
	2-3km SW	Heard	1	Shot		Small arms	28-Sep, 14:57	
	2-3km SW	Heard	1	Shot		Small arms	28-Sep, 15:05	
	1-2km SW	Heard	1	Shot		Small arms	28-Sep, 15:10	
	1-2km SW	Heard	1	Shot		Small arms	28-Sep, 15:15	
	Horlivka (non-government-controlled,	5-6km SW	Heard	1	Explosion	Undetermined	N/K	28-Sep, 15:50
		4-5km NW	Heard	2	Explosion	Undetermined	Small	28-Sep, 15:55

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
39km NE of Donetsk)						arms	
SMM camera in Zolote (government-controlled, 60km W of Luhansk)	2-4km SE	Recorded	3	Projectile	NNE to SSW (assessed as inside the disengagement area)	N/K	28-Sep, 03:19
	7-10km ESE	Recorded	1	Explosion	Assessed as outside the disengagement	N/K	28-Sep, 17:11
	2-4km SE	Recorded	3	Projectile	NNE to SSW (assessed as inside the disengagement area)	N/K	28-Sep, 04:50
	2-4km SE	Recorded	1	Projectile	NNE to SSW (assessed as inside the disengagement area)	N/K	28-Sep, 04:50
Kadiivka (formerly Stakhanov, non-government-controlled, 50km W of Luhansk)	8-11km NNW	Heard	22	Explosion	Undetermined	N/K	27-Sep, 20:40-21:05
	3-5km NNW	Heard	60	Burst		N/K	27-Sep, 20:40-21:05
N edge of Popasna (government-controlled, 69km W of Luhansk)	4-5km SE	Heard	22	Shot		Small arms	28-Sep, 02:11-02:46
	4-5km SE	Heard	17	Burst		HMG	28-Sep, 02:11-02:46
	4-5km SE	Heard	7	Explosion	Undetermined	N/K	28-Sep, 02:11-02:46
SMM camera in Berezove (government-controlled, 31km SW of Donetsk)	3-4km SE	Recorded	2	Explosion	Undetermined	N/K	28-Sep, 19:17
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	1-3km SSE	Recorded	8	Projectile	WSW to ENE	N/K	28-Sep, 19:21
	1-3km SSE	Recorded	5	Projectile	WSW to ENE	N/K	28-Sep, 19:42
	2-3km SSE	Recorded	19	Projectile	W to E	N/K	28-Sep, 20:37
	2-3km SSE	Recorded	9	Projectile	W to E	N/K	28-Sep, 21:22
	2-3km SSE	Recorded	7	Projectile	W to E	N/K	28-Sep, 21:45
	2-3km SSE	Recorded	3	Projectile	W to E	N/K	28-Sep, 23:04
	2-3km SSE	Recorded	34	Projectile	W to E	N/K	28-Sep, 23:30
	2-3km SSE	Recorded	7	Projectile	W to E	N/K	28-Sep, 23:32
	2-3km SSE	Recorded	1	Projectile	W to E	N/K	28-Sep, 23:33
	2-3km SSE	Recorded	13	Projectile	W to E	N/K	28-Sep, 23:34
	2-3km S	Recorded	2	Projectile	W to E	N/K	28-Sep, 23:35
	2-3km SSE	Recorded	1	Projectile	W to E	N/K	28-Sep, 23:39
	2-3km S	Recorded	3	Projectile	W to E	N/K	28-Sep, 23:41
	2-3km SSE	Recorded	3	Projectile	W to E	N/K	28-Sep, 23:48
	2-3km S	Recorded	3	Projectile	W to E	N/K	29-Sep, 00:04
	2-3km SE	Recorded	1	Projectile	W to E	N/K	29-Sep, 01:33
	2-3km SE	Recorded	1	Projectile	E to W	N/K	29-Sep, 01:33
2-3km SSE	Recorded	1	Projectile	E to W	N/K	29-Sep, 01:55	
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	2-3km SSE	Recorded	1	Illumination flare	In vertical flight	N/K	29-Sep, 03:09
	3-5km SSW	Recorded	1	Illumination flare	In vertical flight	N/K	28-Sep, 21:29
	3-4km SSE	Recorded	1	Projectile	In vertical flight	N/K	28-Sep, 23:20
SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk)	2-4km ENE	Recorded	1	Explosion	Undetermined	N/K	28-Sep, 21:30
	2-4km E	Recorded	1	Muzzle flash		N/K	28-Sep, 22:45
	2-4km E	Recorded	1	Projectile	N to S, subsequent to previous event	N/K	28-Sep, 22:45
	2-4km E	Recorded	1	Explosion	Impact, subsequent to previous event	N/K	28-Sep, 22:45
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	2-3km ESE	Recorded	1	Projectile	N to S	N/K	28-Sep, 19:30
	2-4km E	Recorded	2	Projectile	N to S	N/K	28-Sep, 21:13
	4-6km E	Recorded	1	Illumination flare	In vertical flight	N/K	28-Sep, 21:16
	1-2km ESE	Recorded	2	Projectile	SSW to NNE	N/K	28-Sep, 21:16
	1-2km ESE	Recorded	2	Projectile	SSW to NNE	N/K	28-Sep, 21:22
	2-4km E	Recorded	3	Projectile	N to S	N/K	28-Sep, 21:29
	2-4km E	Recorded	1	Projectile	In vertical flight	N/K	28-Sep, 21:29
	2-4km E	Recorded	1	Projectile	N to S	N/K	28-Sep, 21:30
	1-2km E	Recorded	1	Projectile	In vertical flight	N/K	28-Sep, 21:31
	1-2km E	Recorded	2	Projectile	S to N	N/K	28-Sep, 21:31

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	1-2km ENE	Recorded	1	Projectile	N to S	N/K	28-Sep, 21:38
	1-2km ENE	Recorded	6	Projectile	N to S	N/K	28-Sep, 21:39
	2-4km E	Recorded	1	Muzzle flash		N/K	28-Sep, 21:40
	2-4km E	Recorded	1	Projectile	N to S, subsequent to previous event	N/K	28-Sep, 21:40
	2-4km E	Recorded	1	Muzzle flash		N/K	28-Sep, 21:41
	2-4km E	Recorded	1	Projectile	NE to SW, subsequent to previous event	N/K	28-Sep, 21:41
	2-4km E	Recorded	1	Projectile	S to N	N/K	28-Sep, 22:09
	2-4km E	Recorded	2	Muzzle flash		N/K	28-Sep, 22:10
	2-4km E	Recorded	2	Projectile	NE to SW, subsequent to previous event	N/K	28-Sep, 22:10
	3-5km E	Recorded	1	Explosion	Undetermined	N/K	28-Sep, 22:16
	1-2km ENE	Recorded	2	Projectile	S to N	N/K	28-Sep, 22:46
	1-2km ENE	Recorded	8	Projectile	NW to SE	N/K	28-Sep, 22:46
	1-2km ENE	Recorded	4	Projectile	NW to SE	N/K	28-Sep, 22:47
	1-2km ENE	Recorded	19	Projectile	NW to SE	N/K	28-Sep, 23:04
	1-2km ENE	Recorded	7	Projectile	S to N	N/K	28-Sep, 23:04
	1-2km ENE	Recorded	1	Projectile	N to S	N/K	28-Sep, 23:04
	1-2km ENE	Recorded	2	Projectile	NW to SE	N/K	28-Sep, 23:05
	1-2km ENE	Recorded	2	Projectile	NW to SE	N/K	28-Sep, 23:39
	4-6km ENE	Recorded	1	Explosion	Airburst	N/K	29-Sep, 00:44
	SMM camera at entry-exit checkpoint in Marinka (government- controlled, 23km SW of Donetsk)	4-6km NNE	Recorded	1	Explosion	Undetermined	N/K
4-6km NNE		Recorded	1	Explosion	Undetermined	N/K	28-Sep, 19:09
2-4km NNE		Recorded	4	Projectile	W to E	N/K	28-Sep, 20:22
2-4km NNE		Recorded	4	Projectile	W to E	N/K	28-Sep, 20:23
2-4km NNE		Recorded	4	Projectile	W to E	N/K	28-Sep, 20:24
2-4km NNE		Recorded	4	Projectile	W to E	N/K	28-Sep, 20:25
2-4km NNE		Recorded	4	Projectile	W to E	N/K	28-Sep, 20:25
2-4km NNE		Recorded	3	Projectile	W to E	N/K	28-Sep, 20:26
2-4km NNE		Recorded	1	Projectile	SE to NW	N/K	28-Sep, 20:26
2-4km NNE		Recorded	6	Projectile	W to E	N/K	28-Sep, 20:27
0.08-0.12km NNE		Recorded	1	Explosion	Undetermined	N/K	28-Sep, 20:27
2-4km NNE		Recorded	8	Projectile	W to E	N/K	28-Sep, 20:28
2-4km NNE		Recorded	10	Projectile	W to E	N/K	28-Sep, 20:30
2-4km NNE		Recorded	1	Explosion	Airburst, subsequent to previous event	N/K	28-Sep, 20:30
2-4km NNE		Recorded	3	Projectile	W to E	N/K	28-Sep, 20:31
2-4km NNE		Recorded	7	Projectile	W to E	N/K	28-Sep, 20:32
2-4km NNE		Recorded	1	Explosion	Airburst, subsequent to previous event	N/K	28-Sep, 20:32
2-4km NNE		Recorded	4	Projectile	W to E	N/K	28-Sep, 20:33
2-4km NNE		Recorded	4	Projectile	W to E	N/K	28-Sep, 20:34
3-4km NNE		Recorded	1	Explosion	Undetermined	N/K	28-Sep, 20:36
SMM camera at entry-exit checkpoint in Pyshchevyk (government-controlled, 84km S of Donetsk)	5-7km S	Recorded	1	Projectile	NE to SW	N/K	28-Sep, 19:15
	5-7km S	Recorded	1	Projectile	NE to SW	N/K	28-Sep, 19:16
	5-7km S	Recorded	1	Explosion	Undetermined	N/K	28-Sep, 19:21
	6-8km S	Recorded	2	Projectile	W to E	N/K	28-Sep, 19:21
	6-8km S	Recorded	11	Projectile	NW to SE	N/K	28-Sep, 19:22
	6-8km S	Recorded	5	Projectile	W to E	N/K	28-Sep, 19:23
	6-8km S	Recorded	1	Projectile	W to E	N/K	28-Sep, 19:43
	6-8km S	Recorded	1	Projectile	NNE to SSW	N/K	28-Sep, 19:43
	6-8km S	Recorded	1	Projectile	W to E	N/K	28-Sep, 19:44
	6-8km S	Recorded	1	Projectile	NNE to SSW	N/K	28-Sep, 19:44
	6-8km S	Recorded	1	Projectile	W to E	N/K	28-Sep, 19:47
	6-8km S	Recorded	1	Explosion	Also recorded by SMM cameras in Lomakyne and Chermalyk	N/K	28-Sep, 19:49
	2-4km SSE	Recorded	1	Projectile	W to E	N/K	28-Sep, 19:54
	2-4km SSE	Recorded	2	Projectile	W to E	N/K	28-Sep, 19:56
	2-4km SSE	Recorded	1	Projectile	W to E	N/K	28-Sep, 19:58

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	2-4km S	Recorded	1	Projectile	E to W	N/K	28-Sep, 20:00
	2-4km SSE	Recorded	2	Projectile	W to E	N/K	28-Sep, 20:05
	2-4km S	Recorded	2	Projectile	W to E	N/K	28-Sep, 20:12
	2-4km S	Recorded	3	Projectile	W to E	N/K	28-Sep, 20:16
	2-4km S	Recorded	11	Projectile	E to W	N/K	28-Sep, 20:16
	2-4km S	Recorded	1	Projectile	E to W	N/K	28-Sep, 20:34
	2-4km S	Recorded	1	Projectile	W to E	N/K	28-Sep, 20:35
	2-4km SSE	Recorded	1	Projectile	W to E	N/K	28-Sep, 20:37
	2-4km S	Recorded	10	Projectile	W to E	N/K	28-Sep, 20:40
	2-4km S	Recorded	9	Projectile	W to E	N/K	28-Sep, 20:43
	2-4km SSE	Recorded	1	Projectile	W to E	N/K	28-Sep, 20:44
	2-4km SSE	Recorded	7	Projectile	E to W	N/K	28-Sep, 20:47
	2-4km S	Recorded	1	Projectile	W to E	N/K	28-Sep, 20:53
	2-4km S	Recorded	5	Projectile	W to E	N/K	28-Sep, 21:01
	2-4km S	Recorded	1	Explosion	Airburst	N/K	28-Sep, 21:01
	2-4km S	Recorded	15	Projectile	W to E	N/K	28-Sep, 21:02
	2-4km S	Recorded	14	Projectile	W to E	N/K	28-Sep, 21:03
	2-4km S	Recorded	1	Projectile	W to E	N/K	28-Sep, 21:08
	2-4km S	Recorded	1	Projectile	W to E	N/K	28-Sep, 21:11
	2-4km S	Recorded	8	Projectile	W to E	N/K	28-Sep, 23:16
SMM camera in Svitlodarsk (government-controlled, 57km NE of Donetsk)	7-10km E	Recorded	1	Explosion	Undetermined	N/K	28-Sep, 17:11
	6-8km ESE	Recorded	1	Projectile	NNW to SSE	N/K	28-Sep, 19:51
	6-8km ESE	Recorded	2	Projectile	NNW to SSE	N/K	28-Sep, 19:52
	6-8km ESE	Recorded	1	Projectile	NNW to SSE	N/K	28-Sep, 19:56
	6-8km ESE	Recorded	3	Projectile	NNW to SSE	N/K	28-Sep, 19:57
	6-8km ESE	Recorded	1	Burst	SSW to NNE (approximately 10 rounds)	N/K	28-Sep, 19:58
	6-8km ESE	Recorded	1	Projectile	NNW to SSE	N/K	28-Sep, 19:58
	6-8km ESE	Recorded	1	Projectile	SSW to NNE	N/K	28-Sep, 20:01
	6-8km ESE	Recorded	2	Projectile	SW to NE	N/K	28-Sep, 20:02
	6-8km ESE	Recorded	2	Explosion	Impact, subsequent to previous event	N/K	28-Sep, 20:02
	6-8km ESE	Recorded	1	Projectile	SW to NE	N/K	28-Sep, 20:03
	6-8km ESE	Recorded	1	Explosion	Impact, subsequent to previous event	N/K	28-Sep, 20:03
	6-8km ESE	Recorded	1	Projectile	SW to NE	N/K	28-Sep, 20:04
	6-8km ESE	Recorded	1	Explosion	Impact, subsequent to previous event	N/K	28-Sep, 20:04
	6-8km ESE	Recorded	1	Projectile	SW to NE	N/K	28-Sep, 20:05
	6-8km ESE	Recorded	1	Explosion	Undetermined	N/K	28-Sep, 20:05
	4-6km ESE	Recorded	1	Projectile	NW to SE	N/K	28-Sep, 20:05
	4-6km ESE	Recorded	1	Explosion	Outgoing	N/K	28-Sep, 20:05
	4-6km E	Recorded	1	Explosion	Outgoing	N/K	28-Sep, 20:15
	4-6km ESE	Recorded	1	Explosion	Impact, subsequent to previous event	N/K	28-Sep, 20:15
	4-6km ESE	Recorded	1	Projectile	SW to NE	N/K	28-Sep, 20:18
	4-6km ESE	Recorded	1	Explosion	Impact, subsequent to previous event	N/K	28-Sep, 20:18
	4-6km ESE	Recorded	1	Explosion	Impact	N/K	28-Sep, 20:19
	4-6km ESE	Recorded	1	Projectile	SW to NE	N/K	28-Sep, 20:20
	6-8km ESE	Recorded	1	Explosion	Outgoing	N/K	28-Sep, 20:58
	6-8km ESE	Recorded	1	Projectile	NW to SE, subsequent to previous event	N/K	28-Sep, 20:58
	6-8km ESE	Recorded	1	Explosion	Undetermined	N/K	29-Sep, 15:29
	6-8km ESE	Recorded	1	Explosion	Undetermined	N/K	29-Sep, 15:33
	6-8km ESE	Recorded	1	Explosion	Undetermined	N/K	29-Sep, 15:35
About 1km E of Kruta Balka (non-government-controlled, 16km N of Donetsk)	2km NW	Heard	2	Explosion	Undetermined	N/K	29-Sep, 10:28
About 1km WSW of the railway station in	2-3km SW	Heard	3	Explosion	Undetermined	N/K	29-Sep, 12:06



SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
Yasynuvata (non-government-controlled, 16km NE of Donetsk)							
Railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	3-4km W	Heard	1	Explosion	Undetermined	N/K	29-Sep, 13:42
Trudivski area of Donetsk's Petrovskiy district (non-government-controlled, 15km SW of Donetsk city centre)	1-2km S	Heard	7	Shot		Small arms	29-Sep, 11:15
	1-2km SW	Heard	78	Shot		Small arms	29-Sep, 13:10-13:35
	1-2km SW	Heard	5	Shot		HMG	29-Sep, 13:10-13:35
Oleksandrivka (non-government-controlled, 20km SW of Donetsk)	2-3km W	Heard	1	Explosion	Undetermined	N/K	29-Sep, 12:27
About 1km S of Novohryhorivka (non-government-controlled, 61km NE of Donetsk)	2-5km WSW	Heard	2	Explosion	Undetermined	N/K	29-Sep, 15:35
Bohdanivka (government-controlled, 41km SW of Donetsk)	0.5-1km NNE	Heard	1	Shot		Small arms	29-Sep, 12:00
Svitlodarsk (government-controlled, 57km NE of Donetsk)	3-4km NW	Heard	4	Burst		HMG	28-Sep, 18:54-18:55
	4-6km SE	Heard	2	Explosion	Undetermined	N/K	28-Sep, 20:59
	4-6km SE	Heard	4	Explosion	Undetermined	N/K	28-Sep, 21:04
	4-6km SSE	Heard	2	Explosion	Undetermined	N/K	28-Sep, 22:22
	4-5km SSE	Heard	6	Shot		Small arms	28-Sep, 22:27
	2-3km SSE	Heard	2	Explosion	Undetermined	N/K	28-Sep, 23:00
	2-3km SSE	Heard	2	Explosion	Undetermined	N/K	28-Sep, 23:10
	4-6km SSW	Heard	4	Burst		HMG	28-Sep, 23:13
	4-6km S	Heard	1	Explosion	Undetermined	N/K	28-Sep, 23:18
	4-6km SE	Heard	6	Burst		HMG	28-Sep, 23:20
	2-3km SSE	Heard	10	Shot		Small arms	28-Sep, 23:25
	4-5km SE	Heard	5	Explosion	Undetermined	N/K	28-Sep, 23:32-23:34
	4-5km SE	Heard	2	Explosion	Undetermined	N/K	28-Sep, 23:37
	4-5km SE	Heard	2	Explosion	Undetermined	N/K	28-Sep, 23:39
	4-5km SE	Heard	2	Explosion	Undetermined	N/K	28-Sep, 23:46
	2-3km SE	Heard	5	Shot		Small arms	28-Sep, 23:50
	3-4km S	Heard	22	Explosion	Undetermined	N/K	29-Sep, 06:40
	3-4km SW	Heard	24	Burst		HMG	29-Sep, 07:25
	3-4km SW	Heard	9	Shot		Small arms	29-Sep, 07:30
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	2-3km NE	Heard	1	Explosion	Undetermined	N/K	29-Sep, 09:28
Horlivka (non-government-controlled, 39km NE of Donetsk)	5-6km NW	Heard	5	Explosion	Undetermined	N/K	29-Sep, 17:30-17:37
	5-6km NW	Heard	2	Explosion	Undetermined	N/K	29-Sep, 17:43
	5-6km NW	Heard	6	Explosion	Undetermined	N/K	29-Sep, 17:46-17:48
	5-6km NW	Heard	10	Explosion	Undetermined	N/K	29-Sep, 17:49-17:52
	4-5km NW	Heard	15	Burst		HMG	29-Sep, 17:49-17:52
	5-6km NW	Heard	6	Explosion	Undetermined	N/K	29-Sep, 17:57-18:05
	5-6km NW	Heard	4	Explosion	Undetermined	N/K	29-Sep, 18:06-18:08
	5-6km NW	Heard	2	Explosion	Undetermined	N/K	29-Sep, 18:17-18:19
	5-6km NW	Heard	5	Explosion	Undetermined	N/K	29-Sep, 18:23-18:26
5-6km NW	Heard	5	Burst		HMG	29-Sep, 18:23-18:26	
SMM camera in Kriakivka (government-controlled, 38km NW of Luhansk)	3-5km SSW	Recorded	1	Burst	NNW to SSE (approximately 15 rounds)	N/K	28-Sep, 22:25

<b>SMM position</b>	<b>Event location</b>	<b>Means</b>	<b>No.</b>	<b>Observation</b>	<b>Description</b>	<b>Weapon</b>	<b>Date, time</b>
SMM camera in Zolote (government-controlled, 60km W of Luhansk)	2-3.5km S	Recorded	1	Explosion	Airburst, assessed as inside the disengagement area	N/K	28-Sep, 22:49
Kadiivka (formerly Stakhanov, non-government-controlled, 50km W of Luhansk)	8-10km NNW	Heard	2	Explosion	Undetermined	N/K	28-Sep, 22:10
	6-7km W	Heard	6	Explosion	Undetermined	N/K	28-Sep, 22:32-22:36
NE edge of Stanytsia Luhanska (government-controlled, 16km N of Luhansk)	2-4km S	Heard	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	29-Sep, 00:36
N edge of Popasna (government-controlled, 69km W of Luhansk)	4-5km SE	Heard	39	Burst		HMG	29-Sep, 02:00-02:45
1.5km NNE of Lobacheve (non-government-controlled, 13km E of Luhansk)	3-3.2km SE	Heard	7	Shot	Assessed as directed at SMM mini-UAV	Small arms	29-Sep, 11:49
Smile (non-government-controlled, 31km NW of Luhansk)	1-2km NW	Heard	1	Explosion	Undetermined	N/K	29-Sep, 12:35
E edge of Popasna (government-controlled, 69km W of Luhansk)	2-4km SSW	Heard	1	Explosion	Undetermined	N/K	29-Sep, 12:51