

**Table of ceasefire violations as of 29 October 2018<sup>1</sup>**

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time	
SMM camera in Avdiivka (government-controlled, 17km N of Donetsk)	3-5km SE	Recorded	1	Explosion	Airburst	N/K	28-Oct, 18:36	
SMM camera in Berezove (government-controlled, 31km SW of Donetsk)	2-3km SSE	Recorded	1	Projectile	SW to NE	N/K	28-Oct, 20:18	
	2-3km SE	Recorded	1	Projectile	SW to NE	N/K	28-Oct, 20:19	
	2-3km SE	Recorded	1	Muzzle flash		N/K	28-Oct, 20:19	
	2-3km SE	Recorded	2	Projectile	SW to NE	N/K	28-Oct, 20:28	
	2-3km SE	Recorded	2	Muzzle flash		N/K	28-Oct, 20:28	
	2-3km SE	Recorded	2	Projectile	SW to NE	N/K	28-Oct, 20:29	
	2-3km SE	Recorded	1	Projectile	SW to NE	N/K	28-Oct, 20:30	
	2-3km SE	Recorded	1	Projectile	SW to NE	N/K	28-Oct, 20:40	
	2-3km SE	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 20:42	
	2-3km SE	Recorded	1	Projectile	SW to NE	N/K	28-Oct, 20:53	
	2-3km SE	Recorded	1	Projectile	SW to NE	N/K	28-Oct, 20:54	
	2-3km SE	Recorded	4	Projectile	SW to NE	N/K	28-Oct, 21:01	
	2-3km SE	Recorded	20	Projectile	SW to NE	N/K	28-Oct, 21:02	
	2-3km SE	Recorded	2	Projectile	SW to NE	N/K	28-Oct, 21:03	
	2-3km SE	Recorded	1	Projectile	SW to NE	N/K	28-Oct, 21:12	
	2-3km SE	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 21:12	
	2-3km SE	Recorded	1	Projectile	SW to NE	N/K	28-Oct, 21:13	
	2-3km SE	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 21:16	
	SMM camera in Chermalyk (government-controlled, 31km NE of Mariupol)	3-4km SSE	Recorded	5	Projectile	W to E	N/K	28-Oct, 18:41
		3-4km SSE	Recorded	6	Projectile	E to W	N/K	28-Oct, 18:42
3-4km SSE		Recorded	1	Explosion	Undetermined	N/K	28-Oct, 18:42	
3-4km SSE		Recorded	4	Projectile	W to E	N/K	28-Oct, 18:43	
3-4km SSE		Recorded	1	Projectile	W to E	N/K	28-Oct, 18:44	
3-4km SSE		Recorded	1	Projectile	W to E	N/K	28-Oct, 18:45	
3-4km SSE		Recorded	7	Muzzle flash		N/K	28-Oct, 19:28	
3-4km SSE		Recorded	1	Projectile	W to E	N/K	28-Oct, 19:28	
3-4km SSE		Recorded	1	Explosion	Undetermined	N/K	28-Oct, 19:44	
3-4km SSE		Recorded	6	Muzzle flash		N/K	28-Oct, 19:44	
3-4km SSE		Recorded	1	Explosion	Undetermined	N/K	28-Oct, 19:56	
3-4km ESE		Recorded	8	Projectile	SW to NE	N/K	28-Oct, 20:01	
3-4km ESE		Recorded	2	Projectile	NNE to SSW	N/K	28-Oct, 20:01	
3-4km ESE		Recorded	2	Projectile	SW to NE	N/K	28-Oct, 20:03	
3-4km ESE		Recorded	2	Muzzle flash		N/K	28-Oct, 20:03	
3-4km ESE		Recorded	1	Projectile	SSW to NNE	N/K	28-Oct, 20:15	
3-4km ESE		Recorded	4	Projectile	SSW to NNE	N/K	29-Oct, 01:02	
3-4km ESE		Recorded	3	Projectile	SSW to NNE	N/K	29-Oct, 01:03	
SMM camera at Donetsk Filtration Station (15km N of Donetsk)		1-3km SSW	Recorded	3	Projectile	E to W	N/K	28-Oct, 18:33
		1-3km S	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 18:34
	1-3km SSW	Recorded	1	Explosion	Airburst	N/K	28-Oct, 18:36	
	1-3km SSW	Recorded	2	Projectile	N to S	N/K	28-Oct, 18:39	
	1-3km S	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 18:40	
	1-3km S	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 18:51	
	1-3km SSW	Recorded	5	Projectile	NW to SE	N/K	28-Oct, 18:52	
1-3km SSW	Recorded	1	Projectile	NW to SE	N/K	28-Oct, 18:53		

<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.

	1-3km SSW	Recorded	1	Projectile	NW to SE	N/K	28-Oct, 19:00
	1-3km SSW	Recorded	1	Projectile	N to S	N/K	28-Oct, 19:02
	1-3km SSW	Recorded	1	Projectile	WNW to ESE	N/K	28-Oct, 19:32
	1-3km SSW	Recorded	2	Projectile	WNW to ESE	N/K	28-Oct, 19:36
	0.5-1km S	Recorded	1	Projectile	E to W	N/K	28-Oct, 19:59
	1-2km SSW	Recorded	5	Explosion	Undetermined	N/K	28-Oct, 20:00
	0.5-1km S	Recorded	1	Projectile	NW to SE	N/K	28-Oct, 20:26
	1-2km SSW	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 20:57
	0.5-1km SSW	Recorded	4	Projectile	NE to SW	N/K	28-Oct, 21:00
	1-2km S	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 21:05
	0.5-1km SSE	Recorded	4	Projectile	E to W	N/K	28-Oct, 21:05
	1-2km S	Recorded	2	Explosion	Undetermined	N/K	28-Oct, 21:13
	2-3km SSW	Recorded	2	Projectile	N to S	N/K	28-Oct, 21:31
	2-3km SSW	Recorded	1	Projectile	W to E	N/K	28-Oct, 21:32
	2-3km SSW	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 21:39
	1-2km SSW	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 22:05
	0.5-1km S	Recorded	2	Projectile	E to W	N/K	28-Oct, 22:12
	1-2km S	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 22:13
	0.5-1km S	Recorded	2	Projectile	NE to SW	N/K	28-Oct, 22:14
	0.2-0.5km S	Recorded	2	Projectile	E to W	N/K	28-Oct, 22:15
	1-2km S	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 22:16
	0.5-1km S	Recorded	1	Illumination flare		N/K	28-Oct, 22:39
	1-2km SSW	Recorded	3	Projectile	NW to SE	N/K	28-Oct, 22:51
	1-2km S	Recorded	1	Projectile	W to E	N/K	28-Oct, 23:40
	1-2km S	Recorded	1	Projectile	W to E	N/K	29-Oct, 00:33
	1-2km S	Recorded	2	Projectile	SSE to NNW	N/K	29-Oct, 00:36
	2-3km SSW	Recorded	14	Projectile	W to E	N/K	29-Oct, 00:48
	2-3km S	Recorded	1	Projectile	E to W	N/K	29-Oct, 00:55
	2-3km S	Recorded	1	Explosion	Impact	N/K	29-Oct, 00:55
	1-2km S	Recorded	1	Projectile	E to W	N/K	29-Oct, 01:03
	2-3km SSW	Recorded	2	Explosion	Undetermined	N/K	29-Oct, 01:09
	2-3km SSW	Recorded	1	Explosion	Undetermined	N/K	29-Oct, 01:57
	1-2km S	Recorded	1	Projectile	E to W	N/K	29-Oct, 02:09
	2-3km SSW	Recorded	1	Explosion	Undetermined	N/K	29-Oct, 02:31
	2-3km SSW	Recorded	1	Projectile	W to E	N/K	29-Oct, 02:36
	2-3km SSW	Recorded	1	Projectile	NW to SE	N/K	29-Oct, 02:39
	1-2km SSW	Recorded	2	Projectile	SSE to NNW	N/K	29-Oct, 02:40
	2-3km SSW	Recorded	2	Explosion	Undetermined	N/K	29-Oct, 03:06
	1-2km SSW	Recorded	1	Projectile	W to E	N/K	29-Oct, 03:34
	2-3km SSW	Recorded	2	Projectile	NW to SE	N/K	29-Oct, 04:17
	2-3km SSW	Recorded	1	Projectile	W to E	N/K	29-Oct, 04:19
SMM camera 1.5km NE of Hnutove (government-controlled, 20km NE of Mariupol)	4-6km ENE	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 18:37
	4-6km ENE	Recorded	3	Projectile	S to N	N/K	28-Oct, 18:39
	4-6km ENE	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 18:39
	4-6km ESE	Recorded	3	Projectile	S to N	N/K	28-Oct, 18:42
	4-6km ESE	Recorded	1	Projectile	W to E	N/K	28-Oct, 18:42
	4-6km ESE	Recorded	8	Projectile	SW to NE	N/K	28-Oct, 18:43
	4-6km ESE	Recorded	2	Projectile	SW to NE	N/K	28-Oct, 18:44
	4-6km ENE	Recorded	1	Projectile	N to S	N/K	28-Oct, 18:44
	4-6km ENE	Recorded	3	Projectile	In vertical flight	N/K	28-Oct, 18:45
	4-6km ENE	Recorded	2	Projectile	N to S	N/K	28-Oct, 18:45
	4-6km ENE	Recorded	3	Explosion	Undetermined	N/K	28-Oct, 18:46
	4-6km ENE	Recorded	1	Projectile	S to N	N/K	28-Oct, 18:46
	4-6km ESE	Recorded	1	Muzzle flash		N/K	28-Oct, 18:46
	4-6km ENE	Recorded	14	Projectile	N to S	N/K	28-Oct, 18:46
	4-6km ENE	Recorded	1	Projectile	N to S	N/K	28-Oct, 18:50
	4-6km ESE	Recorded	4	Projectile	SW to NE	N/K	28-Oct, 18:45
	4-6km ESE	Recorded	2	Projectile	SW to NE	N/K	28-Oct, 19:10
	4-6km ESE	Recorded	5	Projectile	SW to NE	N/K	28-Oct, 19:11
	4-6km ENE	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 19:11
	4-6km ESE	Recorded	5	Projectile	SW to NE	N/K	28-Oct, 19:12
	4-6km ENE	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 19:12
	4-6km ESE	Recorded	1	Projectile	SW to NE	N/K	28-Oct, 19:17
	4-6km ENE	Recorded	1	Projectile	S to N	N/K	28-Oct, 19:13

4-6km ESE	Recorded	3	Projectile	S to N	N/K	28-Oct, 19:14
4-6km ESE	Recorded	2	Projectile	S to N	N/K	28-Oct, 19:16
2-4km ESE	Recorded	5	Projectile	S to N	N/K	28-Oct, 19:26
2-4km ESE	Recorded	5	Projectile	S to N	N/K	28-Oct, 19:27
2-4km E	Recorded	6	Projectile	N to S	N/K	28-Oct, 19:27
2-4km E	Recorded	5	Projectile	N to S	N/K	28-Oct, 19:28
2-4km E	Recorded	3	Projectile	S to N	N/K	28-Oct, 19:28
2-4km E	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 19:28
2-4km E	Recorded	7	Projectile	N to S	N/K	28-Oct, 19:30
2-4km ENE	Recorded	3	Projectile	S to N	N/K	28-Oct, 19:32
2-4km ENE	Recorded	4	Projectile	S to N	N/K	28-Oct, 19:33
2-4km E	Recorded	1	Projectile	S to N	N/K	28-Oct, 19:40
2-4km ESE	Recorded	2	Projectile	N to S	N/K	28-Oct, 19:43
2-4km ESE	Recorded	12	Projectile	N to S	N/K	28-Oct, 19:44
2-4km ENE	Recorded	2	Explosion	Undetermined	N/K	28-Oct, 19:44
2-4km ESE	Recorded	2	Projectile	N to S	N/K	28-Oct, 19:46
2-4km E	Recorded	3	Projectile	N to S	N/K	28-Oct, 19:47
2-4km ENE	Recorded	1	Projectile	N to S	N/K	28-Oct, 19:49
2-4km ENE	Recorded	5	Projectile	N to S	N/K	28-Oct, 19:50
2-4km ENE	Recorded	3	Projectile	N to S	N/K	28-Oct, 19:52
2-4km ESE	Recorded	2	Projectile	S to N	N/K	28-Oct, 19:52
2-4km E	Recorded	2	Explosion	Undetermined	N/K	28-Oct, 20:03
2-4km E	Recorded	2	Projectile	SE to NW	N/K	28-Oct, 20:03
2-4km E	Recorded	1	Projectile	N to S	N/K	28-Oct, 20:03
2-4km E	Recorded	1	Muzzle flash		N/K	28-Oct, 20:03
2-4km E	Recorded	9	Projectile	N to S	N/K	28-Oct, 20:04
2-4km E	Recorded	2	Projectile	S to N	N/K	28-Oct, 20:04
2-4km E	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 20:04
2-4km E	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 20:07
2-4km E	Recorded	1	Muzzle flash		N/K	28-Oct, 20:08
2-4km E	Recorded	5	Muzzle flash		N/K	28-Oct, 20:10
2-4km E	Recorded	1	Projectile	In vertical flight	N/K	28-Oct, 20:14
2-4km E	Recorded	5	Projectile	N to S	N/K	28-Oct, 20:16
2-4km E	Recorded	1	Muzzle flash		N/K	28-Oct, 20:16
2-4km E	Recorded	3	Projectile	N to S	N/K	28-Oct, 20:17
2-4km E	Recorded	1	Projectile	S to N	N/K	28-Oct, 20:17
2-4km E	Recorded	2	Muzzle flash		N/K	28-Oct, 20:17
2-4km ESE	Recorded	3	Projectile	S to N	N/K	28-Oct, 20:18
2-4km ESE	Recorded	2	Projectile	In vertical flight	N/K	28-Oct, 20:19
2-4km ESE	Recorded	1	Projectile	S to N	N/K	28-Oct, 20:19
2-4km E	Recorded	9	Projectile	N to S	N/K	28-Oct, 20:21
2-4km E	Recorded	2	Explosion	Undetermined	N/K	28-Oct, 20:23
2-4km ENE	Recorded	2	Projectile	S to N	N/K	28-Oct, 20:23
2-4km E	Recorded	8	Projectile	N to S	N/K	28-Oct, 20:31
2-4km E	Recorded	6	Projectile	NW to SE	N/K	28-Oct, 20:32
2-4km E	Recorded	1	Projectile	N to S	N/K	28-Oct, 20:37
2-4km ESE	Recorded	2	Projectile	S to N	N/K	28-Oct, 20:43
2-4km ESE	Recorded	1	Projectile	In vertical flight	N/K	28-Oct, 20:43
2-4km ESE	Recorded	1	Projectile	S to N	N/K	28-Oct, 20:58
2-4km ESE	Recorded	1	Projectile	S to N	N/K	28-Oct, 20:59
2-4km ENE	Recorded	1	Illumination flare		N/K	28-Oct, 21:00
2-4km ESE	Recorded	2	Projectile	S to N	N/K	28-Oct, 21:01
2-4km ENE	Recorded	4	Projectile	S to N	N/K	28-Oct, 21:04
2-4km ENE	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 21:04
2-4km ENE	Recorded	1	Projectile	In vertical flight	N/K	28-Oct, 21:04
2-4km ENE	Recorded	1	Projectile	S to N	N/K	28-Oct, 21:05
2-4km ESE	Recorded	5	Projectile	S to N	N/K	28-Oct, 21:06
2-4km ESE	Recorded	3	Projectile	S to N	N/K	28-Oct, 21:07
2-4km SE	Recorded	1	Projectile	SSW to NNE	N/K	28-Oct, 21:10
2-4km SE	Recorded	2	Explosion	Undetermined	N/K	28-Oct, 21:15
2-4km ESE	Recorded	2	Projectile	S to N	N/K	28-Oct, 21:17
2-4km ESE	Recorded	2	Projectile	S to N	N/K	28-Oct, 21:19
2-4km ESE	Recorded	1	Projectile	S to N	N/K	28-Oct, 21:26
2-4km E	Recorded	12	Projectile	NW to SE	N/K	28-Oct, 22:25

	2-4km E	Recorded	22	Projectile	NW to SE	N/K	28-Oct, 22:26
	2-4km E	Recorded	7	Projectile	N to S	N/K	28-Oct, 22:31
	2-4km E	Recorded	1	Burst	N to S	N/K	28-Oct, 22:31
	2-4km E	Recorded	8	Projectile	N to S	N/K	28-Oct, 22:32
	2-4km E	Recorded	2	Projectile	S to N	N/K	28-Oct, 22:32
	2-4km E	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 22:33
	2-4km E	Recorded	3	Projectile	N to S	N/K	28-Oct, 22:33
	2-4km E	Recorded	4	Projectile	N to S	N/K	28-Oct, 22:34
	2-4km E	Recorded	4	Projectile	S to N	N/K	28-Oct, 22:34
	2-4km E	Recorded	5	Projectile	N to S	N/K	28-Oct, 22:35
	2-4km ENE	Recorded	1	Projectile	S to N	N/K	28-Oct, 22:49
	4-6km ENE	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 22:49
	2-4km ENE	Recorded	2	Projectile	N to S	N/K	28-Oct, 22:55
	2-4km E	Recorded	4	Projectile	NW to SE	N/K	28-Oct, 23:21
	2-4km E	Recorded	10	Projectile	S to N	N/K	28-Oct, 23:22
	2-4km E	Recorded	9	Projectile	NW to SE	N/K	28-Oct, 23:23
	2-4km ENE	Recorded	3	Illumination flare	In vertical flight	N/K	28-Oct, 23:37
	2-4km ENE	Recorded	11	Projectile	N to S	N/K	29-Oct, 00:02
	2-4km ENE	Recorded	6	Projectile	N to S	N/K	29-Oct, 00:03
	2-4km E	Recorded	6	Projectile	SSW to NNE	N/K	29-Oct, 00:42
	2-4km E	Recorded	1	Projectile	S to N	N/K	29-Oct, 00:49
	2-4km E	Recorded	4	Projectile	NW to SE	N/K	29-Oct, 00:53
	2-4km E	Recorded	1	Projectile	In vertical flight	N/K	29-Oct, 01:20
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	2-4km ENE	Recorded	3	Projectile	S to N	N/K	28-Oct, 18:55
SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)	2-3km NNE	Recorded	1	Projectile	E to W	N/K	28-Oct, 20:11
	2-3km NNE	Recorded	5	Projectile	W to E	N/K	28-Oct, 20:51
	2-3km NNE	Recorded	6	Projectile	W to E	N/K	28-Oct, 20:51
	2-3km NNE	Recorded	11	Projectile	W to E	N/K	28-Oct, 20:52
	2-3km N	Recorded	1	Projectile	E to W	N/K	28-Oct, 20:52
	2-3km NNE	Recorded	3	Projectile	W to E	N/K	28-Oct, 20:53
	2-3km NNE	Recorded	1	Projectile	E to W	N/K	28-Oct, 20:55
SMM camera at entry-exit checkpoint in Pyscheyvk (government-controlled, 25km NE of Mariupol)	2-3km NNE	Recorded	2	Projectile	E to W	N/K	28-Oct, 20:56
	2-3km N	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 21:18
	1-3km SSE	Recorded	6	Projectile	W to E	N/K	28-Oct, 18:42
	1-3km SSE	Recorded	1	Projectile	In vertical flight	N/K	28-Oct, 18:42
	1-3km SSE	Recorded	2	Projectile	W to E	N/K	28-Oct, 18:45
	1-3km SSE	Recorded	12	Projectile	E to W	N/K	28-Oct, 19:11
	1-3km SSE	Recorded	2	Projectile	W to E	N/K	28-Oct, 19:11
	1-3km SSE	Recorded	1	Projectile	NW to SE	N/K	28-Oct, 19:19
	1-3km SSE	Recorded	1	Projectile	E to W	N/K	28-Oct, 19:24
	1-3km SSE	Recorded	6	Projectile	E to W	N/K	28-Oct, 19:26
	1-3km SSE	Recorded	5	Projectile	E to W	N/K	28-Oct, 19:27
	1-3km SSE	Recorded	4	Projectile	WNW to ESE	N/K	28-Oct, 19:32
	1-3km SSE	Recorded	3	Projectile	E to W	N/K	28-Oct, 19:43
	1-3km SSE	Recorded	10	Projectile	E to W	N/K	28-Oct, 19:44
	2-4km SSE	Recorded	3	Projectile	E to W	N/K	28-Oct, 20:16
	2-3km SSE	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 21:06
	2-3km SSE	Recorded	1	Projectile	NW to SE	N/K	28-Oct, 21:17
	2-3km S	Recorded	21	Projectile	W to E	N/K	28-Oct, 23:21
	2-3km S	Recorded	16	Projectile	W to E	N/K	28-Oct, 23:58
	2-3km S	Recorded	7	Projectile	W to E	N/K	29-Oct, 00:13
	SMM camera in Svitlodarsk (government-controlled, 57km NE of Donetsk)	2-4km E	Recorded	12	Projectile	N to S	N/K
2-4km E		Recorded	1	Explosion	Undetermined	N/K	28-Oct, 20:59
2-4km E		Recorded	15	Projectile	N to S	N/K	28-Oct, 21:02
2-4km ESE		Recorded	1	Explosion	Undetermined	N/K	28-Oct, 21:02
2-4km E		Recorded	1	Explosion	Undetermined	N/K	28-Oct, 21:02
2-4km E		Recorded	2	Projectile	S to N	N/K	28-Oct, 22:39
2-4km E		Recorded	1	Projectile	S to N	N/K	28-Oct, 22:40
2-4km E	Recorded	1	Projectile	N to S	N/K	28-Oct, 23:25	

	2-4km E	Recorded	8	Projectile	N to S	N/K	28-Oct, 23:32
	2-4km E	Recorded	1	Projectile	N to S	N/K	28-Oct, 23:42
	2-4km ESE	Recorded	1	Projectile	S to N	N/K	29-Oct, 02:01
	2-4km ESE	Recorded	1	Projectile	S to N	N/K	29-Oct, 02:04
	2-4km ESE	Recorded	1	Explosion	Impact	N/K	29-Oct, 05:16
SE part of Avdiivka (government-controlled, 17km N of Donetsk)	2-3km NE	Heard	1	Explosion	Undetermined	N/K	29-Oct, 11:11
	2-3km NE	Heard	1	Explosion	Undetermined	N/K	29-Oct, 11:31
	2km SE	Heard	1	Explosion	Undetermined	N/K	29-Oct, 12:09
	3-4km SE	Heard	1	Explosion	Undetermined	N/K	29-Oct, 13:54
Krasnohorivka (government-controlled, 21km W of Donetsk)	2-3km ESE	Heard	4	Burst		HMG	29-Oct, 14:19
	2-3km ESE	Heard	6	Burst		HMG	29-Oct, 14:27
	1-2km SE	Heard	8	Burst		Small arms	29-Oct, 14:28
	2-3km SE	Heard	1	Explosion	Undetermined	N/K	29-Oct, 14:36
	1-2km ESE	Heard	4	Explosion	Undetermined	N/K	29-Oct, 14:47
1.1km NW of the railway station in Yasnyuvata (non-government-controlled, 16km NE of Donetsk)	2-3km SW	Heard	2	Explosion	Undetermined	N/K	29-Oct, 08:37
	2-3km SW	Heard	1	Burst		Small arms	29-Oct, 08:37
	2-3km SW	Heard	3	Shot		Small arms	29-Oct, 08:57
	2-3km NW	Heard	18	Explosion	Undetermined	N/K	29-Oct, 09:02
	2-3km SW	Heard	3	Explosion	Undetermined	N/K	29-Oct, 09:03
	2-3km SW	Heard	2	Explosion	Undetermined	N/K	29-Oct, 09:16
	2-3km SW	Heard	4	Shot		Small arms	29-Oct, 09:19
	2-3km SW	Heard	2	Shot		Small arms	29-Oct, 09:38
	2-3km SW	Heard	1	Burst		Small arms	29-Oct, 09:48
	2-3km SW	Heard	12	Shot		Small arms	29-Oct, 09:53
	2-3km SW	Heard	5	Shot		Small arms	29-Oct, 10:00
	2-3km SW	Heard	1	Explosion	Undetermined	N/K	29-Oct, 10:25
	2-3km SW	Heard	1	Explosion	Undetermined	N/K	29-Oct, 10:33
	2-3km SW	Heard	1	Explosion	Undetermined	N/K	29-Oct, 10:34
	2-3km SW	Heard	20	Burst		Small arms and HMG	29-Oct, 10:34
	2-3km SW	Heard	1	Explosion	Undetermined	N/K	29-Oct, 11:08
	2-3km SW	Heard	15	Burst		Small arms	29-Oct, 11:08
	1km NW	Heard and saw	1	Explosion	Undetermined	N/K	29-Oct, 11:23
	2-3km SW	Heard	2	Shot		Small arms	29-Oct, 11:27
	2-3km SW	Heard	1	Explosion	Undetermined	N/K	29-Oct, 11:28
	2-3km NW	Heard	1	Explosion	Undetermined	N/K	29-Oct, 12:48
	2-3km NW	Heard	1	Shot		Small arms	29-Oct, 12:50
	1km NNW of Pyshevyk (government-controlled, 25km NE of Mariupol)	1-2km NE	Heard	4	Explosion	Undetermined	N/K
1-2km NE		Heard	12	Shot		Small arms	29-Oct, 09:35
2-3km E		Heard	1	Explosion	Undetermined	N/K	29-Oct, 09:40
2-3km SE		Heard	2	Explosion	Undetermined	N/K	29-Oct, 10:20
600m W of Verkhnohyrokiyske (formerly Oktiabr, non-government-controlled, 29km NE of Mariupol)	1-2km ENE	Saw	1	Explosion	Undetermined	N/K	29-Oct, 10:20
Kozatske (non-government-controlled, 36km NE of Mariupol)	N/K SW	Heard	2	Explosion	Undetermined	N/K	29-Oct, 10:31
2.2km SSE Sakhanka (non-government controlled, 24km NE of Mariupol)	2km NW	Heard	5	Burst		HMG	29-Oct, 12:30
	2km WNW	Heard	14	Burst		Small arms	29-Oct, 12:50
	2km WNW	Heard	7	Shot		Small arms	29-Oct, 12:50
2.2km SSE of Lomakyne (government controlled, 15km NE of Mariupol)	2-3km NE	Heard	1	Explosion	Undetermined	N/K	29-Oct, 15:10-15:12
	2-3km E	Heard	1	Explosion	Undetermined	N/K	29-Oct, 15:10-15:12
	2-3km E	Heard	1	Burst		Small arms	29-Oct, 15:10-15:12
	3km NE	Heard	2	Explosion	Undetermined	N/K	29-Oct, 15:45
Svitlodarsk (government-controlled, 57km NE)	3-4km SE	Heard	12	Shot		Small arms	28-Oct, 18:50
	3-4km S	Heard	23	Shot		Small arms	28-Oct, 19:04
	3-4km S	Heard	12	Burst		HMG	28-Oct, 19:08

of Donetsk)

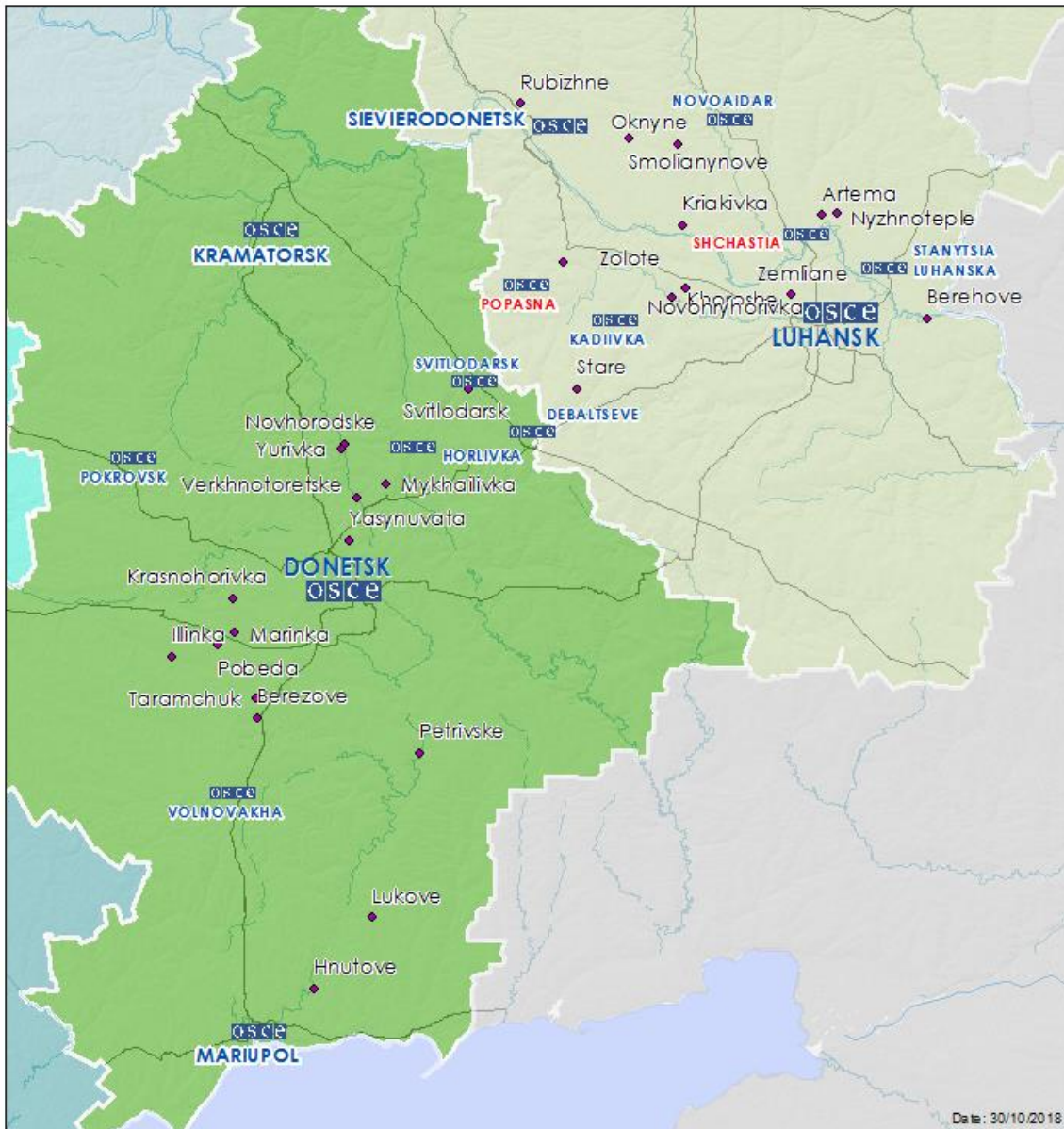
3-5km S	Heard	1	Explosion	Undetermined	N/K	28-Oct, 19:08
3-4km S	Heard	14	Burst		HMG	28-Oct, 19:09
3-4km S	Heard	16	Burst		Small arms	28-Oct, 19:11
3-4km S	Heard	4	Shot		Small arms	28-Oct, 19:13
3-4km S	Heard	8	Burst		Small arms	28-Oct, 19:14
3-4km S	Heard	8	Burst		HMG	28-Oct, 19:16
3-4km S	Heard	29	Burst		HMG	28-Oct, 19:17-19:19
3-4km S	Heard	2	Shot		Small arms	28-Oct, 19:22
3-4km S	Heard	24	Burst		HMG	28-Oct, 19:23-19:27
3-4km S	Heard	5	Shot		Small arms	28-Oct, 19:33
3-4km S	Heard	12	Burst		Small arms	28-Oct, 19:44
3-4km S	Heard	4	Burst		Small arms	28-Oct, 19:46
3-4km S	Heard	8	Burst		HMG	28-Oct, 20:06
3-5km S	Heard	3	Explosion	Undetermined	N/K	28-Oct, 20:16-20:17
3-4km S	Heard	17	Burst		HMG	28-Oct, 20:16-20:17
3-4km S	Heard	37	Burst		HMG	28-Oct, 20:19-20:20
3-4km S	Heard	5	Burst		Small arms	28-Oct, 20:22
3-5km S	Heard	1	Explosion	Undetermined	N/K	28-Oct, 20:23
3-4km S	Heard	6	Burst		HMG	28-Oct, 20:24
3-4km S	Heard	7	Burst		Small arms	28-Oct, 20:25
3-5km S	Heard	7	Burst		HMG	28-Oct, 20:27
3-4km S	Heard	7	Burst		HMG	28-Oct, 20:32-20:33
5-7km S	Heard	3	Explosion	Undetermined	N/K	28-Oct, 20:36
3-5km S	Heard	17	Burst		HMG	28-Oct, 20:39
5-7km S	Heard	1	Explosion	Undetermined	N/K	28-Oct, 20:41
5-7km S	Heard	7	Burst		HMG	28-Oct, 20:42
3-5km S	Heard	1	Explosion	Undetermined	N/K	28-Oct, 20:43
3-4km S	Heard	3	Burst		HMG	28-Oct, 20:43
3-5km S	Heard	4	Explosion	Undetermined	N/K	28-Oct, 20:44
3-4km S	Heard	3	Burst		HMG	28-Oct, 20:47
3-5km S	Heard	5	Explosion	Undetermined	N/K	28-Oct, 20:48-20:49
3-4km S	Heard	1	Burst		HMG	28-Oct, 20:50
3-5km S	Heard	2	Explosion	Undetermined	N/K	28-Oct, 20:51
3-4km S	Heard	4	Shot		Small arms	28-Oct, 20:52
3-5km S	Heard	2	Explosion	Undetermined	N/K	28-Oct, 20:53
3-5km S	Heard	12	Burst		HMG	28-Oct, 21:10-21:11
3-5km S	Heard	1	Explosion	Undetermined	N/K	28-Oct, 21:14
3-5km S	Heard	2	Explosion	Undetermined	N/K	28-Oct, 21:25
3-5km S	Heard	1	Explosion	Undetermined	N/K	28-Oct, 21:27
3-5km S	Heard	9	Burst		HMG	28-Oct, 21:28
3km S	Heard	1	Explosion	Undetermined	N/K	28-Oct, 21:29
3-4km S	Heard	12	Burst		HMG	28-Oct, 21:30-21:31
3-4km S	Heard	4	Burst		HMG	28-Oct, 21:32
3-5km S	Heard	2	Explosion	Undetermined	N/K	28-Oct, 21:33
3km S	Heard	1	Explosion	Undetermined	N/K	28-Oct, 21:34
3-4km S	Heard	23	Burst		HMG	28-Oct, 21:34-21:35
3km S	Heard	1	Explosion	Undetermined	N/K	28-Oct, 21:37
3-4km S	Heard	27	Burst		HMG	28-Oct, 21:38-21:39
3-4km S	Heard	22	Burst		HMG	28-Oct, 21:40-21:41
3km S	Heard	3	Explosion	Undetermined	N/K	28-Oct, 21:40-21:41
3-4km S	Heard	15	Burst		HMG	28-Oct, 21:41
3km S	Heard	3	Explosion	Undetermined	N/K	28-Oct, 21:42
3km S	Heard	3	Explosion	Undetermined	N/K	28-Oct, 21:43-21:44
3-5km S	Heard	6	Explosion	Undetermined	N/K	28-Oct, 21:50
3-5km S	Heard	6	Burst		HMG	28-Oct, 21:50
3-5km S	Heard	1	Explosion	Undetermined	N/K	28-Oct, 22:00
5-7km S	Heard	1	Explosion	Undetermined	N/K	28-Oct, 22:04
3-5km S	Heard	1	Explosion	Undetermined	N/K	28-Oct, 22:11
3-4km S	Heard	5	Burst		HMG	28-Oct, 22:12
3-5km S	Heard	1	Explosion	Undetermined	N/K	28-Oct, 22:19
3-5km S	Heard	1	Explosion	Undetermined	N/K	28-Oct, 22:33
3-5km S	Heard	6	Burst		HMG	29-Oct, 09:12
3-5km S	Heard	2	Explosion	Undetermined	N/K	29-Oct, 09:12
3km S	Heard	3	Burst		HMG	29-Oct, 09:16

	4km S	Heard	15	Burst		HMG	29-Oct, 09:17-09:18
	5km S	Heard	1	Explosion	Undetermined	N/K	29-Oct, 09:19
	3km S	Heard	2	Explosion	Undetermined	N/K	29-Oct, 09:24
	3km S	Heard		Shot and burst	Uncountable overlapping	HMG and small arms	29-Oct, 09:25-09:27
	4km S	Heard	1	Explosion	Undetermined	N/K	29-Oct, 09:28
	3km S	Heard	1	Explosion	Undetermined	N/K	29-Oct, 09:29
	3km S	Heard	3	Burst		HMG	29-Oct, 09:31
	3km S	Heard	1	Explosion	Undetermined	N/K	29-Oct, 09:33
	3-5km S	Heard	15	Burst		HMG	29-Oct, 09:56-10:01
	3-5km S	Heard	4	Explosion	Undetermined	N/K	29-Oct, 09:57
	3-5km S	Heard		Shot and burst	Uncountable overlapping	HMG and small arms	29-Oct, 10:01-10:02
	3km S	Heard	4	Explosion	Undetermined	N/K	29-Oct, 10:05-10:08
	3km S	Heard	2	Explosion	Undetermined	N/K	29-Oct, 10:14
	3km S	Heard	9	Burst		HMG	29-Oct, 10:48-10:50
	3km S	Heard	1	Explosion	Undetermined	N/K	29-Oct, 17:32
	3km S	Heard	5	Shot		Small arms	29-Oct, 18:03
	5-7km S	Heard	5	Explosion	Undetermined	N/K	29-Oct, 18:04
	5-7km S	Heard	4	Explosion	Undetermined	N/K	29-Oct, 18:12
	5km S	Heard	1	Explosion	Undetermined	N/K	29-Oct, 18:17
	5km S	Heard	2	Explosion	Undetermined	N/K	29-Oct, 18:22
2km SW of Novoselivka Druha (government-controlled, 23km N of Donetsk)	3-5km SSE	Heard	1	Explosion	Undetermined	N/K	29-Oct, 07:51
E edge of Kamianka (government-controlled, 20km N of Donetsk)	3-5km SW	Heard	1	Explosion	Undetermined	N/K	29-Oct, 08:09
	1-2km ESE	Heard	3	Shot		Small arms	29-Oct, 08:17
	3-4km SE	Heard	6	Shot		Small arms	29-Oct, 08:23-08:24
	4-6km SE	Heard	2	Explosion	Undetermined	N/K	29-Oct, 08:25-08:26
	2-3km SSE	Heard	14	Shot		Small arms	29-Oct, 08:47-08:49
	2-3km SSE	Heard	8	Shot		Small arms	29-Oct, 09:04-09:05
	3-5km SSE	Heard	1	Explosion	Undetermined	N/K	29-Oct, 10:23
	3-5km SSE	Heard	1	Explosion	Undetermined	N/K	29-Oct, 10:27
	3-5km SSE	Heard	1	Explosion	Undetermined	N/K	29-Oct, 11:11
	2-4km SSE	Heard	1	Explosion	Undetermined	N/K	29-Oct, 11:24
	2km SE	Heard	2	Shot		Small arms	29-Oct, 12:24
	3km SSE	Heard	1	Explosion	Undetermined	N/K	29-Oct, 12:27
	3km SE	Heard	1	Explosion	Undetermined	N/K	29-Oct, 12:50
	3km SE	Heard	6	Explosion	Undetermined	N/K	29-Oct, 12:54-12:55
	3km SE	Heard	2	Explosion	Undetermined	N/K	29-Oct, 13:00
3km SE	Heard	2	Explosion	Undetermined	N/K	29-Oct, 13:25	
3km SE	Heard	2	Shot		Small arms	29-Oct, 13:25	
1.7km S of Luhanske (government-controlled, 59km NE of Donetsk)	3km E	Heard	1	Explosion	Undetermined	N/K	29-Oct, 09:30
Luhanske (government-controlled, 59km NE of Donetsk)	3-5km SW	Heard	14	Burst		HMG	29-Oct, 09:53-10:10
	3-5km SW	Heard	5	Explosion	Undetermined	N/K	29-Oct, 09:53-10:10
	3km SSE	Heard	1	Explosion	Undetermined	N/K	29-Oct, 10:05
NE edge of Mykhailivka (non-government-controlled, 30km NE of Donetsk)	3-4km SSW	Heard	1	Explosion	Undetermined	N/K	29-Oct, 10:13
Horlivka (non-government-controlled, 39km NE of Donetsk)	5-7km W	Heard	1	Explosion	Undetermined	N/K	29-Oct, 11:55
Panteleimonivka (non-government-controlled, 26km NE of Donetsk)	4-5km NW	Heard	1	Explosion	Undetermined	N/K	29-Oct, 11:23
	3-4km NW	Heard	12	Burst		HMG	29-Oct, 11:29
	3-4km NW	Heard	1	Explosion	Undetermined	N/K	29-Oct, 11:53

SMM camera in Kriakivka (government-controlled, 38km NW of Luhansk)	2-4km SSW	Recorded	15	Projectile	ESE to WNW	N/K	28-Oct, 21:20
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 22:07
	2-4km SSW	Recorded	2	Explosion	Undetermined	N/K	28-Oct, 22:08
	2-4km SSW	Recorded	2	Explosion	Undetermined	N/K	28-Oct, 22:09
	2-4km SW	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 22:11
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 22:40
	2-4km SSW	Recorded	3	Explosion	Undetermined	N/K	28-Oct, 23:40
	2-4km SSW	Recorded	2	Muzzle flash		N/K	29-Oct, 01:58
E edge of Stanytsia Luhanska (government-controlled, 16km NE of Luhansk)	4-5km SSE	Heard	2	Shot	Assessed as outside the disengagement area	Small arms	29-Oct, 00:32
NE outskirts of Dachne (non-government-controlled, 47km W of Luhansk)	1-2km NNW	Heard	6	Burst		Small arms	29-Oct, 09:45-09:46
Shymshynivka (non-government-controlled, 27km SW of Luhansk)	2-3km SSE	Heard	11	Explosion	Assessed as live-fire exercise	N/K	29-Oct, 10:07-10:27
2.4km S of Muratove (government-controlled, 51km NW of Luhansk)	3-5km S	Heard	4	Explosion		N/K	29-Oct, 09:57-10:18
	3-5km S	Heard	34	Shot		HMG	29-Oct, 09:57-10:18
	1-2km S	Heard	4	Shot		Small arms	29-Oct, 09:57-10:18
N outskirts of Zolote-4/Rodina (government-controlled, 59km W of Luhansk)	1-2km E	Heard	3	Shot	Assessed as outside the disengagement area	Small arms	29-Oct, 10:50-10:55



## Map of Donetsk and Luhansk regions<sup>2</sup>



<sup>2</sup> The SMM is deployed to ten locations throughout Ukraine – Kherson, Odessa, Lviv, Ivano-Frankivsk, Kharkiv, Donetsk, Dnipro, Chernivtsi, Luhansk and Kyiv – as per Permanent Council Decision 1117 of 21 March 2014. This map of eastern Ukraine is meant for illustrative purposes and indicates locations mentioned in the report, as well as those where the SMM has offices (monitoring teams, patrol hubs, and forward patrol bases) in Donetsk and Luhansk regions. (In red: forward patrol bases from which SMM staff has temporarily relocated based on recommendations of security experts from participating States as well as SMM security considerations).