

**Table of ceasefire violations as of 21 October 2018<sup>1</sup>**

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera in Chermalyk (government-controlled, 31km NE of Mariupol)	2-5km SSE	Recorded	3	Projectile	WSW to ENE	N/K	19-Oct, 18:38
	2-5km SSE	Recorded	3	Projectile	WSW to ENE	N/K	19-Oct, 18:39
	2-5km SSE	Recorded	5	Projectile	WSW to ENE	N/K	19-Oct, 18:40
	2-5km SSE	Recorded	5	Projectile	WSW to ENE	N/K	19-Oct, 18:41
	2-5km SSE	Recorded	1	Explosion	Undetermined	N/K	19-Oct, 18:41
	2-5km SSE	Recorded	3	Projectile	ENE to WSW	N/K	19-Oct, 18:50
	2-5km SSE	Recorded	1	Explosion	Undetermined	N/K	19-Oct, 18:50
	2-5km SSE	Recorded	11	Projectile	WSW to ENE	N/K	19-Oct, 18:56
	2-5km SSE	Recorded	1	Explosion	Undetermined	N/K	19-Oct, 15:56
	2-5km SSE	Recorded	3	Projectile	WSW to ENE	N/K	19-Oct, 18:57
	2-5km SSE	Recorded	1	Projectile	ENE to WSW	N/K	19-Oct, 18:57
	2-5km SSE	Recorded	1	Projectile	WSW to ENE	N/K	19-Oct, 19:07
	2-5km SSE	Recorded	5	Projectile	WSW to ENE	N/K	19-Oct, 19:09
	2-5km SSE	Recorded	21	Projectile	WSW to ENE	N/K	19-Oct, 19:10
	2-5km SSE	Recorded	12	Projectile	WSW to ENE	N/K	19-Oct, 19:13
	2-5km SSE	Recorded	1	Explosion	Undetermined	N/K	19-Oct, 19:13
	2-5km SSE	Recorded	1	Projectile	ENE to WSW	N/K	19-Oct, 19:16
	2-5km SSE	Recorded	1	Explosion	Undetermined	N/K	19-Oct, 19:16
	2-5km SSE	Recorded	5	Projectile	WSW to ENE	N/K	19-Oct, 19:18
	SMM camera at Donetsk Filtration Station (15km N of Donetsk)	1-3km SW	Recorded	1	Projectile	W to E	N/K
1-3km SW		Recorded	1	Projectile	W to E	N/K	19-Oct, 18:57
1-3km SW		Recorded	1	Projectile	W to E	N/K	19-Oct, 18:59
1-3km SW		Recorded	2	Projectile	W to E	N/K	19-Oct, 19:17
1-3km SW		Recorded	4	Projectile	W to E	N/K	19-Oct, 19:29

<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.

1-2km SW	Recorded	3	Projectile	W to E	N/K	19-Oct, 19:42
1-2km SW	Recorded	1	Projectile	W to E	N/K	19-Oct, 19:49
2-3km S	Recorded	9	Projectile	E to W	N/K	19-Oct, 20:47
2-3km SE	Recorded	1	Projectile	E to W	N/K	19-Oct, 20:48
2-3km SSE	Recorded	2	Explosion	Undetermined	N/K	19-Oct, 20:50
2-3km SW	Recorded	3	Projectile	E to W	N/K	19-Oct, 20:50
2-3km S	Recorded	2	Projectile	W to E	N/K	19-Oct, 20:50
2-3km SSW	Recorded	1	Explosion	Undetermined	N/K	19-Oct, 20:50
2-3km SSW	Recorded	2	Explosion	Undetermined	N/K	19-Oct, 20:51
2-3km SW	Recorded	6	Projectile	W to E	N/K	19-Oct, 20:56
2-3km SE	Recorded	1	Projectile	E to W	N/K	19-Oct, 20:58
1-2km S	Recorded	7	Muzzle flash		N/K	19-Oct, 20:58
2-3km SW	Recorded	1	Projectile	W to E	N/K	19-Oct, 20:59
2-3km SSW	Recorded	1	Explosion	Undetermined	N/K	19-Oct, 21:00
2-3km SSW	Recorded	1	Projectile	In vertical flight	N/K	19-Oct, 21:00
1-2km SSW	Recorded	2	Projectile	W to E	N/K	19-Oct, 21:00
1-2km SSW	Recorded	12	Projectile	NW to SE	N/K	19-Oct, 21:00
0.2-0.5km SE	Recorded	1	Projectile	E to W	N/K	19-Oct, 21:04
1-2km SSW	Recorded	1	Illumination flare	WNW to ESE	N/K	19-Oct, 21:09
2-3km SSW	Recorded	2	Explosion	Undetermined	N/K	19-Oct, 21:09
2-3km SSW	Recorded	10	Projectile	NE to SW	N/K	19-Oct, 21:09
2-3km SW	Recorded	1	Explosion	Undetermined	N/K	19-Oct, 21:09
1-2km S	Recorded	4	Projectile	WNW to ESE	N/K	19-Oct, 21:09
2-3km S	Recorded	1	Projectile	W to E	N/K	19-Oct, 21:10
2-3km SSW	Recorded	1	Projectile	E to W	N/K	19-Oct, 21:10
2-3km S	Recorded	1	Projectile	WNW to ESE	N/K	19-Oct, 21:15
1-2km SSE	Recorded	1	Explosion	Undetermined	N/K	19-Oct, 21:27
2-3km S	Recorded	1	Explosion	Undetermined	N/K	19-Oct, 21:53
2-3km SSW	Recorded	1	Projectile	W to E	N/K	19-Oct, 21:54
2-3km SSW	Recorded	6	Projectile	E to W	N/K	19-Oct, 21:54
2-3km S	Recorded	2	Projectile	E to W	N/K	19-Oct, 21:55
2-3km S	Recorded	1	Explosion	Undetermined	N/K	19-Oct, 21:58
2-3km SW	Recorded	1	Projectile	W to E	N/K	19-Oct, 22:16
1-2km S	Recorded	3	Projectile	E to W	N/K	20-Oct, 18:02
1-2km S	Recorded	1	Projectile	E to W	N/K	20-Oct, 18:03
1-2km SSW	Recorded	1	Projectile	W to E	N/K	20-Oct, 18:06
1-2km SSW	Recorded	5	Projectile	W to E	N/K	20-Oct, 18:18
1-2km S	Recorded	1	Projectile	E to W	N/K	20-Oct, 18:18
1-2km SSW	Recorded	1	Explosion	Undetermined	N/K	20-Oct, 18:18
1-2km SSW	Recorded	7	Projectile	W to E	N/K	20-Oct, 18:19
1-2km SSW	Recorded	6	Explosion	Undetermined	N/K	20-Oct, 18:19
1-2km S	Recorded	1	Projectile	E to W	N/K	20-Oct, 18:19
1-2km SSW	Recorded	2	Projectile	E to W	N/K	20-Oct, 18:19

	1-2km E	Recorded	1	Explosion	Undetermined	N/K	20-Oct, 18:20	
	1-2km SSW	Recorded	2	Explosion	Undetermined	N/K	20-Oct, 18:20	
	1-2km SSW	Recorded	11	Explosion	Undetermined	N/K	20-Oct, 18:24	
	1-2km S	Recorded	1	Explosion	Undetermined	N/K	20-Oct, 18:24	
	1-2km SSW	Recorded	2	Projectile	W to E	N/K	20-Oct, 18:24	
	1-2km SSW	Recorded	7	Explosion	Undetermined	N/K	20-Oct, 18:25	
	1-2km SSW	Recorded	7	Projectile	W to E	N/K	20-Oct, 18:25	
	1-2km S	Recorded	7	Explosion	Undetermined	N/K	20-Oct, 18:26	
	1-2km SSW	Recorded	2	Projectile	W to E	N/K	20-Oct, 18:26	
	SMM camera 1.5km NE of Hnutove (government-controlled, 20km NE of Mariupol)	3-5km ENE	Recorded	5	Projectile	N to S	N/K	19-Oct, 18:49
		3-5km ENE	Recorded	2	Explosion	Undetermined	N/K	19-Oct, 18:53
		3-5km ENE	Recorded	1	Explosion	Undetermined	N/K	19-Oct, 19:00
		3-5km ENE	Recorded	2	Projectile	N to S	N/K	19-Oct, 19:01
		3-5km ENE	Recorded	8	Projectile	N to S	N/K	19-Oct, 19:08
		3-5km ENE	Recorded	4	Projectile	N to S	N/K	19-Oct, 19:09
		3-5km ENE	Recorded	6	Projectile	N to S	N/K	19-Oct, 19:11
		3-5km ENE	Recorded	1	Projectile	S to N	N/K	19-Oct, 19:13
		3-5km ENE	Recorded	1	Explosion	Undetermined	N/K	19-Oct, 19:13
		3-5km ENE	Recorded	1	Projectile	S to N	N/K	19-Oct, 19:21
3-5km ENE		Recorded	4	Projectile	N to S	N/K	19-Oct, 19:22	
3-5km ENE		Recorded	1	Projectile	S to N	N/K	19-Oct, 19:22	
3-5km ENE		Recorded	8	Projectile	N to S	N/K	19-Oct, 19:23	
3-5km ENE		Recorded	1	Projectile	S to N	N/K	19-Oct, 19:23	
3-5km ENE		Recorded	20	Projectile	N to S	N/K	19-Oct, 19:24	
3-5km ENE		Recorded	2	Projectile	S to N	N/K	19-Oct, 19:24	
3-5km ENE		Recorded	1	Explosion	Undetermined	N/K	19-Oct, 19:25	
3-5km ENE		Recorded	4	Projectile	N to S	N/K	19-Oct, 19:26	
3-5km ENE		Recorded	3	Projectile	S to N	N/K	19-Oct, 19:26	
3-5km ENE		Recorded	12	Projectile	N to S	N/K	19-Oct, 19:30	
3-5km ENE		Recorded	1	Explosion	Undetermined	N/K	19-Oct, 19:30	

3-5km ENE	Recorded	6	Projectile	N to S	N/K	19-Oct, 19:34
3-5km ENE	Recorded	1	Projectile	N to S	N/K	19-Oct, 19:37
3-5km ENE	Recorded	1	Projectile	N to S	N/K	19-Oct, 19:41
3-5km ENE	Recorded	2	Explosion	Undetermined	N/K	19-Oct, 19:41
3-5km ENE	Recorded	2	Explosion	Undetermined	N/K	19-Oct, 19:42
3-5km ENE	Recorded	1	Projectile	N to S	N/K	19-Oct, 19:42
3-5km ENE	Recorded	6	Projectile	N to S	N/K	19-Oct, 19:43
2-4km E	Recorded	1	Projectile	S to N	N/K	19-Oct, 20:06
2-4km E	Recorded	7	Projectile	S to N	N/K	19-Oct, 20:07
2-4km ENE	Recorded	1	Projectile	N to S	N/K	19-Oct, 20:07
2-4km ENE	Recorded	19	Projectile	N to S	N/K	19-Oct, 20:08
2-4km ENE	Recorded	6	Projectile	S to N	N/K	19-Oct, 20:09
2-4km ENE	Recorded	2	Explosion	Undetermined	N/K	19-Oct, 20:09
2-4km ENE	Recorded	6	Projectile	S to N	N/K	19-Oct, 20:10
2-4km ENE	Recorded	3	Projectile	N to S	N/K	19-Oct, 20:10
2-4km ENE	Recorded	2	Projectile	N to S	N/K	19-Oct, 20:11
2-4km ESE	Recorded	1	Projectile	S to N	N/K	19-Oct, 20:11
2-4km ENE	Recorded	3	Projectile	N to S	N/K	19-Oct, 20:12
2-4km ENE	Recorded	1	Projectile	N to S	N/K	19-Oct, 20:14
2-4km ENE	Recorded	1	Projectile	N to S	N/K	19-Oct, 20:15
2-4km ENE	Recorded	7	Projectile	S to N	N/K	19-Oct, 20:16
2-4km ENE	Recorded	3	Projectile	N to S	N/K	19-Oct, 20:16
2-4km ENE	Recorded	2	Projectile	N to S	N/K	19-Oct, 20:18
2-4km E	Recorded	1	Explosion	Undetermined	N/K	19-Oct, 20:20
2-4km ESE	Recorded	1	Projectile	S to N	N/K	19-Oct, 20:31
2-4km ENE	Recorded	4	Projectile	N to S	N/K	19-Oct, 20:50
2-4km ENE	Recorded	7	Projectile	N to S	N/K	19-Oct, 20:54

	2-4km ENE	Recorded	3	Projectile	N to S	N/K	19-Oct, 21:55
	2-4km ENE	Recorded	1	Projectile	N to S	N/K	19-Oct, 22:21
	2-4km ESE	Recorded	7	Projectile	N to S	N/K	19-Oct, 22:21
	2-4km E	Recorded	1	Projectile	In vertical flight	N/K	19-Oct, 22:23
	2-4km E	Recorded	1	Projectile	S to N	N/K	19-Oct, 22:23
	2-4km ESE	Recorded	1	Projectile	S to N	N/K	19-Oct, 22:26
SMM camera in Hranitne (government-controlled, 60km S of Donetsk)	3-5km ESE	Recorded	1	Explosion	Undetermined	N/K	19-Oct, 19:30
SMM camera in Svitlodarsk (government-controlled, 57km NE of Donetsk)	2-4km E	Recorded	7	Projectile	S to N	N/K	19-Oct, 22:21
	2-4km E	Recorded	8	Projectile	S to N	N/K	19-Oct, 22:28
	2-4km E	Recorded	2	Projectile	N to S	N/K	20-Oct, 03:18
	2-4km E	Recorded	8	Projectile	S to N	N/K	20-Oct, 03:18
	2-4km E	Recorded	3	Projectile	N to S	N/K	20-Oct, 03:19
	2-4km E	Recorded	5	Projectile	S to N	N/K	20-Oct, 03:19
	Oleksandrivka (non-government-controlled, 20km SW of Donetsk)	2km NW	Heard	1	Explosion	Undetermined	N/K
1.3km NE of the Donetsk Central Railway Station(non-government-controlled, 6km NW of Donetsk)	8-10km W	Heard	1	Explosion	Undetermined	N/K	20-Oct, 11:35
Trudivski area in Petrovskiyi district (non-government-controlled, 15km SW of Donetsk city centre)	1-2km W	Heard	3	Burst		HMG	20-Oct, 12:25
1.8km N of Petrivske (non-government-controlled, 41km S of Donetsk)	2-3km SE	Heard	65	Shot	Assessed as outside the disengagement area	Small arms	20-Oct, 14:14-14:44
	2-3km WNW	Heard	2	Explosion	Undetermined (assessed as outside DA)	N/K	20-Oct, 14:20
	4-6km W	Heard	4	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	20-Oct, 14:50
	2-3km SE	Heard	31	Shot	Assessed as outside the disengagement area	Small arms	20-Oct, 14:57-15:02
1.1km NW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	2km SW	Heard	3	Explosion	Undetermined	N/K	20-Oct, 09:44-09:54
	2-3km SW	Heard	1	Explosion	Undetermined	N/K	20-Oct, 10:18

	1-2km SW	Heard	1	Explosion	Undetermined	N/K	20-Oct, 10:21
	2km SW	Heard	3	Explosion	Undetermined	N/K	20-Oct, 11:09-11:30
	1-2km SW	Heard	1	Explosion	Undetermined	N/K	20-Oct, 11:40
	2-3km SW	Heard	3	Shot		Small arms	20-Oct, 11:50
	2km SW	Heard	Uncountable	Burst	Overlapping	Small arms	20-Oct, 12:35
	2km SW	Heard	20	Burst		Small arms	20-Oct, 12:43
	2-3km SW	Heard	25	Shot		Small arms	20-Oct, 13:20
	2-3km SW	Heard	2	Burst		Small arms	20-Oct, 13:20
	2-3km SW	Heard	Uncountable	Burst	Overlapping	Small arms	20-Oct, 13:24-13:26
	2-3km SW	Heard	Uncountable	Burst	Overlapping	Small arms	20-Oct, 13:40-13:41
Svitlodarsk (government-controlled, 57km NE of Donetsk)	2-3km SE	Heard	18	Burst		Small arms	19-Oct, 18:57-19:15
	2-3km SE	Heard	5	Burst		HMG	19-Oct, 19:17-19:18
	3-4km SE	Heard	1	Explosion	Undetermined	N/K	19-Oct, 19:34
	2-3km SE	Heard	9	Burst		HMG	19-Oct, 19:43-19:57
	2-3km SE	Heard	5	Burst		Small arms	19-Oct, 20:33-20:34
	2-3km SE	Heard	5	Burst		HMG	19-Oct, 21:03
	2-3km SE	Heard	9	Burst		HMG	19-Oct, 21:05
	5-6km SW	Heard	3	Burst		HMG	19-Oct, 21:08
	5-6km SW	Heard	5	Burst		HMG	19-Oct, 21:11-21:12
	2-3km SE	Heard	19	Burst		HMG	19-Oct, 21:15-21:16
	5-6km SW	Heard	13	Burst		HMG	19-Oct, 21:17
	6-7km SW	Heard	7	Burst		HMG	19-Oct, 21:38
	2-3km SE	Heard	22	Burst		HMG	19-Oct, 21:51-21:53
	2-3km SE	Heard	19	Burst		HMG	19-Oct, 21:54-21:55
	2-3km SE	Heard	30	Burst		HMG	19-Oct, 22:01-22:02
	5-6km SW	Heard	11	Burst		HMG	19-Oct, 22:05-22:06
	2-3km SE	Heard	37	Shot		Small arms	19-Oct, 22:09-22:10
	2-3km SE	Heard	2	Explosion		N/K	19-Oct, 22:09
	5-6km SW	Heard	6	Shot		Small arms	19-Oct, 22:12

	5-6km SW	Heard	5	Burst		HMG	19-Oct, 22:23-22:24
	2-3km SE	Heard	6	Explosion	Undetermined	N/K	19-Oct, 22:24-22:25
	2-3km SE	Heard	1	Explosion	Undetermined	N/K	19-Oct, 22:26
	5-6km SW	Heard	18	Shot		Small arms	19-Oct, 22:26
	2-3km SE	Heard	145	Burst		HMG	19-Oct, 22:27-22:29
	2-3km SE	Heard	4	Explosion	Undetermined	N/K	19-Oct, 22:28-22:29
	5-6km SW	Heard	37	Burst		HMG	19-Oct, 22:29
	5-6km SW	Heard	17	Burst		HMG	19-Oct, 22:31-22:32
	5-6km SW	Heard	22	Shot		Small arms	19-Oct, 22:34
	5-6km SW	Heard	1	Explosion	Undetermined	N/K	19-Oct, 22:39
	5-6km SW	Heard	17	Burst		HMG	19-Oct, 22:43-22:45
	5-6km SW	Heard	17	Shot		Small arms	19-Oct, 23:01-23:03
	5-6km SW	Heard	6	Burst		HMG	19-Oct, 23:04-23:06
	2-3km SE	Heard	5	Shot		Small arms	19-Oct, 23:10
	2-3km SE	Heard	23	Burst		HMG	19-Oct, 23:26
	2-3km SE	Heard	5	Burst		HMG	19-Oct, 23:40
	5-6km SW	Heard	9	Burst		HMG	19-Oct, 23:46
	2-3km SE	Heard	4	Burst		HMG	19-Oct, 23:46
	3-4km SE	Heard	6	Burst		HMG	20-Oct, 09:02
	3-4km SE	Heard	1	Explosion	Undetermined	N/K	20-Oct, 09:09
	3-4km SE	Heard	7	Explosion	Undetermined	N/K	20-Oct, 09:11
	3-4km SE	Heard	17	Burst		HMG	20-Oct, 09:17-09:19
	3-4km ESE	Heard	25	Burst		HMG	20-Oct, 09:21-09:22
	3-4km SE	Heard	32	Burst		HMG	20-Oct, 09:30-09:32
	2-3km SE	Heard	3	Explosion	Undetermined	N/K	20-Oct, 10:26
Horlivka (non-government-controlled, 39km NE of Donetsk)	4-6km SW	Heard	1	Explosion	Undetermined	N/K	19-Oct, 18:36
	4-6km SSW	Heard	15	Explosion	Undetermined	N/K	19-Oct, 21:31
	4-6km SSW	Heard	50	Explosion	Undetermined	N/K	19-Oct, 22:41
	4-6km SW	Heard	112	Shot		Small arms	20-Oct, 15:12-15:40
	4-6km SSW	Heard	15	Explosion	Undetermined	N/K	20-Oct, 15:45-15:50
	4-6km SSW	Heard	50	Burst		Small arms	20-Oct, 15:55-16:00
	2-3km SW	Heard	230	Shot		Small arms	20-Oct, 16:02-16:15
	2-3km SW	Heard	65	Burst		HMG	20-Oct, 16:20-16:30

	2km SE	Heard	68	Shot		Small arms	20-Oct, 16:41-16:49
	3-4km SW	Heard	11	Explosion	Undetermined	N/K	20-Oct, 17:10-17:16
NNE edge of Holmivskiyi (non-government-controlled, 49km NE of Donetsk)	2-3km NW	Heard	14	Explosion	Undetermined	N/K	20-Oct, 15:02
	2-3km NW	Heard	5	Burst		HMG	20-Oct, 15:10
Novotoshkivske (government-controlled, 53km W of Luhansk)	2-3km WSW	Heard	12	Burst		HMG	20-Oct, 09:41-09:45
2.5km SW of Popasna (government-controlled, 69km W of Luhansk)	5-7km SE	Heard	1	Explosion	Undetermined	N/K	20-Oct, 11:09
Stukalova Balka (non-government-controlled, 9km N of Luhansk)	5-10km N	Heard	3	Explosion	Undetermined	N/K	20-Oct, 13:05
S edge of Berezivske (non-government-controlled, 53km NW of Luhansk)	7-8km SSW	Heard	5	Burst		IFV (BMP-2) cannon (30mm)	20-Oct, 13:15-13:20
S edge of the disengagement area near Zolote (non-government-controlled, 58km W of Luhansk)	5km WSW	Heard	6	Explosion	Undetermined (assessed as outside the disengagement area)	Mortar (82mm)	20-Oct, 14:23-14:28
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	1-2km SSW	Recorded	1	Projectile	W to E	N/K	20-Oct, 18:32
	1-2km SSW	Recorded	1	Explosion		N/K	20-Oct, 18:32
	1-2km SSW	Recorded	9	Explosion	Undetermined	N/K	20-Oct, 18:40
	1-2km SSW	Recorded	4	Projectile	W to E	N/K	20-Oct, 18:40
	1-2km SSW	Recorded	1	Projectile	E to W	N/K	20-Oct, 18:40
	1-2km SSW	Recorded	8	Explosion	Undetermined	N/K	20-Oct, 18:43
	1-2km S	Recorded	1	Projectile	W to E	N/K	20-Oct, 18:48
	1-2km SSW	Recorded	2	Projectile	W to E	N/K	20-Oct, 18:49
	1-2km SSW	Recorded	1	Projectile	In vertical flight	N/K	20-Oct, 18:49
	1-2km SSW	Recorded	1	Illumination flare	In vertical flight	N/K	20-Oct, 18:50
	1-2km SSW	Recorded	1	Explosion	Undetermined	N/K	20-Oct, 18:50
	1-2km SSW	Recorded	1	Projectile	W to E	N/K	20-Oct, 19:01
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	20-Oct, 20:28
	SMM camera 1.5km NE of Hnutove (government-controlled, 20km NE of Mariupol)	4-5km ENE	Recorded	1	Explosion	Undetermined	N/K
SMM camera in Hranitne (government-controlled, 60km S of Donetsk)	2-5km E	Recorded	1	Projectile	N to S	N/K	21-Oct, 18:23
	2-5km E	Recorded	1	Projectile	N to S	N/K	21-Oct, 18:24
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	0.4-1km ESE	Recorded	3	Projectile	S to N	N/K	20-Oct, 19:36
	2-4km E	Recorded	1	Explosion	Undetermined	N/K	20-Oct, 21:04
	2-4km E	Recorded	2	Explosion	Undetermined	N/K	20-Oct, 21:13



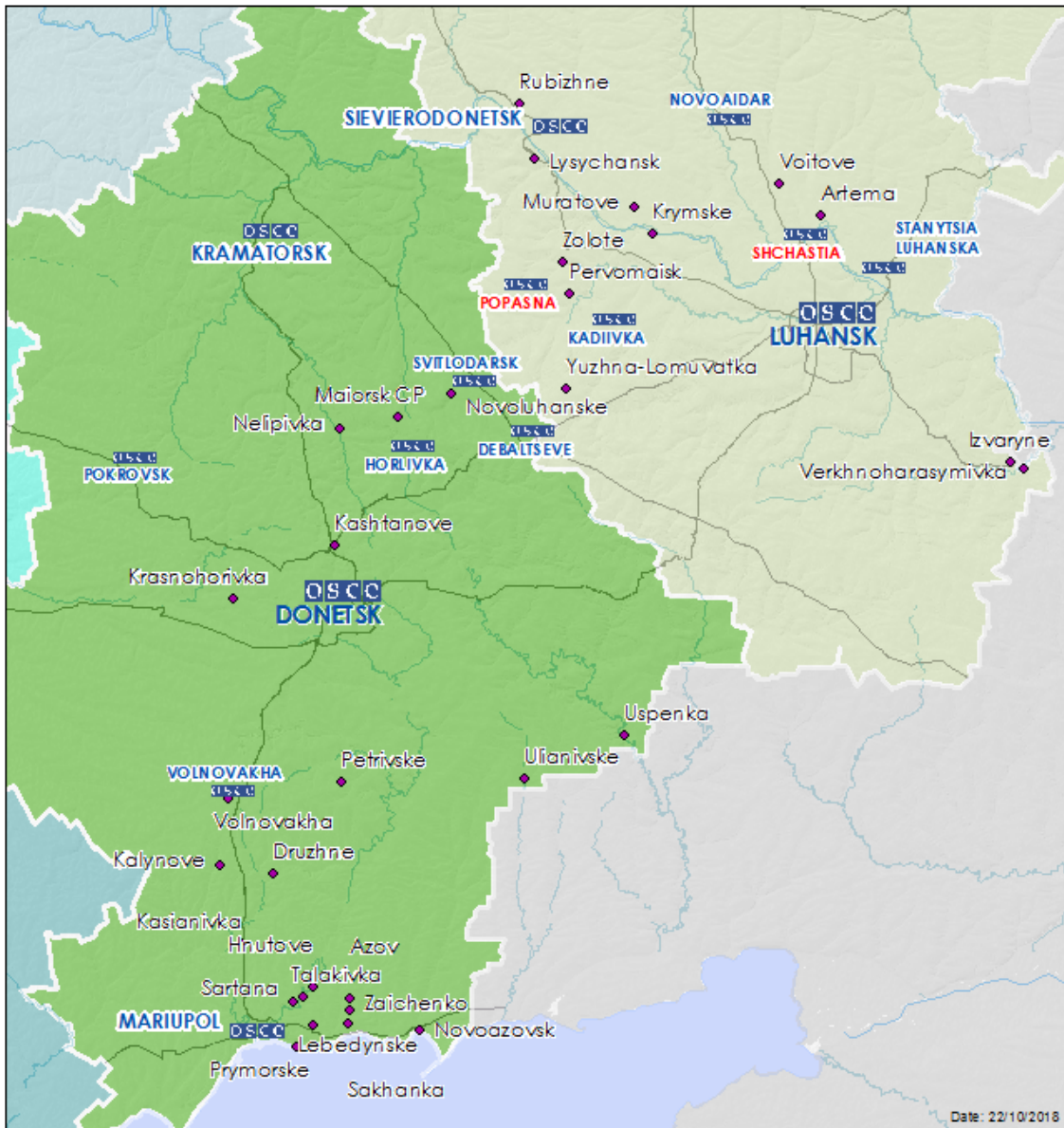
SMM camera on N edge of Popasna (government-controlled, 69km W of Luhansk)	2-4km E	Recorded	8	Projectile	N to S	N/K	21-Oct, 18:48
SMM camera at Prince Ihor Monument SE of Stanytsia Luhanska bridge (15km NE of Luhansk)	1-3km NE	Recorded	1	Illumination flare	In vertical flight (assessed as outside the disengagement area)	N/K	20-Oct, 18:51
SMM camera in Zolote (government-controlled, 60km W of Luhansk)	2-4km SE	Recorded	2	Projectile	NE to SW (assessed as inside the disengagement area)	N/K	21-Oct, 18:09
	2-4km SE	Recorded	1	Explosion	Assessed as inside the disengagement area	N/K	21-Oct, 18:09
	2-4km SSE	Recorded	2	Projectile	SW to NE (assessed as inside the disengagement area)	N/K	21-Oct, 18:20
	2-4km SE	Recorded	1	Projectile	NE to SW (assessed as inside the disengagement area)	N/K	21-Oct, 18:20
	2-4km SE	Recorded	2	Projectile	NE to SW (assessed as inside the disengagement area)	N/K	21-Oct, 18:21
	2-4km SE	Recorded	1	Projectile	In vertical flight (assessed as inside the disengagement area)		21-Oct, 18:22
	2-4km SE	Recorded	1	Projectile	In vertical flight (assessed as inside the disengagement area)		21-Oct, 18:22
Debaltseve (non-government-controlled, 58km NE of Donetsk)	5-8km WNW	Heard	17	Explosion		N/K	20-Oct, 23:14-23:25
Oleksandrivka (non-government-controlled, 20km SW of Donetsk)	3-4km NW	Heard	1	Explosion	Undetermined	N/K	21-Oct, 10:35
Pikuzy (formerly Kominternove, non-government-controlled, 23km NE of Mariupol)	N/K SW	Heard	8	Shot		Small arms	21-Oct, 10:55-11:05
1km NNW of Pyshevyk (government-controlled, 25km NE of Mariupol)	2-3km SSE	Heard	7	Burst		HMG	21-Oct, 13:35
	3-4km NNE	Heard	2	Burst		HMG	21-Oct, 13:40
	3-4km NNE	Heard	2	Explosion	Undetermined	N/K	21-Oct, 13:40
Horlivka (non-government-controlled, 39km NE of Donetsk)	4-6km NE	Heard	2	Explosion	Undetermined	Artillery (type N/K)	20-Oct, 19:19-19:20
	4-5km SE	Heard	1	Explosion	Undetermined	Artillery (type N/K)	20-Oct, 19:43
	4-5km SE	Heard	1	Explosion	Undetermined	Artillery (type N/K)	20-Oct, 20:03

					N/K)	
	6-8km W	Heard	2	Burst		Small arms 21-Oct, 15:10-15:14
	6-8km W	Heard	2	Explosion	Undetermined	N/K 21-Oct, 15:10-15:14
	6-8km W	Heard	1	Explosion	Undetermined	N/K 21-Oct, 15:20
	4-6km W	Heard	18	Burst		HMG 21-Oct, 16:13
	5-8km SSW	Heard	9	Explosion	Undetermined	N/K 21-Oct, 16:49-16:50
Svitlodarsk (government-controlled, 57km NE of Donetsk)	2-3km ESE	Heard	28	Burst		Small arms 20-Oct, 18:56-19:00
	3-4km ESE	Heard	5	Burst		HMG 20-Oct, 19:01-19:03
	3-4km ESE	Heard	8	Burst		HMG 20-Oct, 19:12-19:15
	4-5km ESE	Heard	1	Explosion	Undetermined	N/K 20-Oct, 19:20
	2-3km E	Heard	8	Explosion	Undetermined	N/K 20-Oct, 19:23-19:26
	2-3km E	Heard	2	Burst	Undetermined	HMG 20-Oct, 19:23
	2-3km E	Heard	11	Burst		Small arms 20-Oct, 19:33
	4-5km SW	Heard	4	Explosion	Undetermined	N/K 20-Oct, 19:36
	4-5km SW	Heard	4	Burst		HMG 20-Oct, 19:36
	2-3km E	Heard	3	Shot		Small arms 20-Oct, 19:38
	2-3km E	Heard	25	Shot		Small arms 20-Oct, 19:47
	2-3km ESE	Heard	3	Shot		Small arms 20-Oct, 20:21
	2-3km ESE	Heard	21	Burst		HMG 20-Oct, 20:22
	2-3km ESE	Heard	15	Shot		Small arms 20-Oct, 20:39-20:43
	2-3km E	Heard	1	Explosion	Undetermined	N/K 20-Oct, 20:43
	5-6km SE	Heard	2	Explosion	Undetermined	N/K 20-Oct, 20:45
	2-3km ESE	Heard	5	Burst		HMG 20-Oct, 20:45
	2-3km E	Heard	3	Explosion	Undetermined	N/K 20-Oct, 20:49
	2-3km E	Heard	13	Burst		HMG 20-Oct, 20:49
	2-3km E	Heard	1	Explosion	Undetermined	N/K 20-Oct, 20:59
	3-4km E	Heard	1	Explosion	Undetermined	N/K 20-Oct, 21:10
	3-4km SE	Heard	3	Burst		HMG 20-Oct, 21:43
	3-4km SE	Heard	5	Shot		Small arms 20-Oct, 22:23
	3-4km SE	Heard	10	Burst		HMG 20-Oct, 22:31-22:35
	3-4km SE	Heard	8	Burst		HMG 20-Oct, 22:50
	3-4km SE	Heard	3	Burst		HMG 20-Oct, 23:09
	3-4km SE	Heard	3	Explosion	Undetermined	N/K 20-Oct, 23:17-23:25
	3-4km SE	Heard	2	Explosion	Undetermined	N/K 20-Oct, 23:35
	3-4km SE	Heard	2	Explosion	Undetermined	N/K 20-Oct, 23:46-23:47

	3-4km SE	Heard	5	Burst		HMG	20-Oct, 23:50
	3-4km ESE	Heard	3	Explosion	Undetermined	N/K	21-Oct, 07:00-07:05
	3-4km SW	Heard	1	Explosion	Undetermined	N/K	21-Oct, 10:00
	2-3km S	Heard	2	Explosion	Undetermined	N/K	21-Oct, 10:15
	3-4km SW	Heard	2	Explosion	Undetermined	N/K	21-Oct, 10:37
	2-3km SE	Heard	8	Burst		HMG	21-Oct, 10:40
	2-3km S	Heard	1	Burst		HMG	21-Oct, 13:58
	4-5km SE	Heard	1	Explosion	Undetermined	N/K	21-Oct, 14:11
	5-6km SE	Heard	1	Explosion	Undetermined	N/K	21-Oct, 15:51
	2-3km SE	Heard	2	Burst		HMG	21-Oct, 17:48
	2-3km SE	Heard	4	Burst		HMG	21-Oct, 18:05-18:07
	2-3km E	Heard	13	Burst		Small arms	21-Oct, 18:13-18:14
	2-3km E	Heard	10	Shot		Small arms	21-Oct, 18:13-18:14
1.4km E of Nelipivka (government-controlled, 40km NE of Donetsk)	3-4km NE	Heard	6	Explosion	Outgoing	Mortar (type N/K)	21-Oct, 13:27-13:35
	3-4km NE	Heard	2	Burst		HMG	21-Oct, 13:50
	3-4km E	Heard	1	Burst		IFV (BMP-2)	21-Oct, 14:15
	3km E	Heard	1	Explosion	Undetermined	N/K	21-Oct, 14:40
	2.5-3km E	Heard	1	Explosion	Outgoing	Mortar (type N/K)	21-Oct, 14:43
	2.5-3km E	Heard	1	Explosion	Outgoing	Mortar (type N/K)	21-Oct, 14:46
	2.5-3km E	Heard	1	Explosion	Outgoing	Mortar (type N/K)	21-Oct, 14:49
	2.5-3km E	Heard	1	Explosion	Outgoing	Mortar (type N/K)	21-Oct, 14:59
	2.5-3km E	Heard	1	Explosion	Outgoing	Mortar (type N/K)	21-Oct, 15:02
	2.5-3km E	Heard	2	Explosion	Outgoing	Mortar (type N/K)	21-Oct, 15:09-15:11
	2.5-3km E	Heard	Uncountable	Shot and burst		Small arms	21-Oct, 15:09-15:11
1.5-2km E	Heard	1	Explosion	Undetermined (airburst)	N/K	21-Oct, 15:20	
E edge of Stanytsia Luhanska (government-controlled, 16km NE of Luhansk)	6-8km S	Heard	2	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	20-Oct, 20:14
1.5km SE of Holubivske (non-government-controlled, 51km	5-7km NE	Heard	2	Explosion	Undetermined	N/K	21-Oct, 10:15-10:35

W of Luhansk)	5-7km NE	Heard	20	Shot		Small arms	21-Oct, 10:15-10:35
NE edge of Zolote-4/Rodina (government-controlled, 59km W of Luhansk)	1-2km SSE	Heard	11	Burst		Small arms	21-Oct, 11:15-11:17
	1-2km SSE	Heard	3	Burst		HMG	21-Oct, 11:15-11:17
4km SW of Popasna (government-controlled, 69km W of Luhansk)	5-6km SSE	Heard	1	Burst		Small arms	21-Oct, 11:20
Shchastia (government-controlled, 20km N of Luhansk)	1-2km SSE	Heard	14	Shot		Small arms	21-Oct, 13:18-13:25
	1-2km SSE	Heard	12	Burst		HMG	21-Oct, 13:18-13:25
	1-2km SSE	Heard	3	Explosion	Undetermined	N/K	21-Oct, 13:18-13:25
	1-2km SSE	Heard	2	Explosion	Undetermined	N/K	21-Oct, 13:30
	1-2km SSE	Heard	6	Explosion	Undetermined	N/K	21-Oct, 13:31-13:35
	1-2km SSE	Heard	5	Explosion	Undetermined	N/K	21-Oct, 13:40
	1-2km SSE	Heard	1	Explosion	Undetermined	N/K	21-Oct, 13:42
	1-2km SSE	Heard	18	Explosion	Undetermined	N/K	21-Oct, 13:45
Zolote-5/Mykhailivka (non-government-controlled, 58km W of Luhansk)	5-10km NE	Heard	1	Explosion	Undetermined	N/K	21-Oct, 15:06-15:17
	5-10km NE	Heard	59	Burst		HMG	21-Oct, 15:06-15:17

### 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).