## Table of ceasefire violations as of 16 September 2018<sup>1</sup>

	Event						
SMM position	location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera in		27200222		0.00001.000000			
Avdiivka							
(government-							
controlled,	0.5.21						
17km N of	0.5-2km SSW	Recorded	1	Evaluation	A imbanuat	N/K	15 Com 01.41
Donetsk) SMM camera in			1	Explosion	Airburst		15-Sep, 01:41
Chermalyk	2-4km ESE 1-2km ESE	Recorded Recorded	1	Explosion Explosion	Undetermined Undetermined	N/K	14-Sep, 19:32
(government-	1-2KM ESE	Recorded	1	Explosion	Undetermined	N/K	15-Sep, 01:00
controlled,							
31km NE of							
Mariupol)	1-3km SE	Recorded	7	Projectile	NNE to SSW	N/K	15-Sep, 01:31
	0.5-1.5km S	Recorded	1	Projectile	W to E	N/K	14-Sep, 20:53
	2-4km SSW	Recorded	1	Explosion	airburst	N/K	14-Sep, 20:56
	2-4km SSW	Recorded	1	Projectile	In vertical flight	N/K	14-Sep, 20:56
	1-3km SSW	Recorded	3	Projectile	WNW to ESE	N/K	14-Sep, 21:40
	1-3km SSW	Recorded	2	Projectile	W to E	N/K	14-Sep, 21:40
SMM camera at	1-3km SSE	Recorded	1	Projectile	NE to SW	N/K	14-Sep, 22:33
Donetsk	1-3km SSW	Recorded	1	Projectile	WNW to ESE	N/K	14-Sep, 22:54
Filtration	1-3km SSW	Recorded	4	Projectile	WNW to ESE	N/K	14-Sep, 23:16
Station (15km N	1-3km SSW	Recorded	5	Projectile	NW to SE	N/K	15-Sep, 00:18
of Donetsk)	1-3km SSW	Recorded	1	Projectile	SW to NE	N/K	15-Sep, 00:18
	1-3km SSW	Recorded	3	Projectile	NW to SE	N/K	15-Sep, 01:29
	1-3km SSW	Recorded	2	Projectile	NNE to SSW	N/K	15-Sep, 01:29
	1-2km SSW	Recorded	1	Explosion	Undetermined	N/K	15-Sep, 01:42
	1-3km SSW	Recorded	1	Projectile	NW to SE	N/K	15-Sep, 02:40
	1-3km SSW	Recorded	2	Projectile	WNW to ESE	N/K	15-Sep, 04:04
	1-3km E	Recorded	1	Projectile	S to N	N/K	14-Sep, 21:27
	2-4km E	Recorded	6	Projectile	S to N	N/K	14-Sep, 21:32
	2-4km E	Recorded	2	Projectile	N to S	N/K	14-Sep, 21:32
	2-4km ESE	Recorded	3	Projectile	N to S	N/K	14-Sep, 22:22
	2-4km ENE	Recorded	3	Projectile	S to N	N/K	14-Sep, 22:34
	2-4km ENE	Recorded	1	Projectile	N to S	N/K	14-Sep, 22:34
	2-4km ENE	Recorded	4	Projectile	S to N	N/K	15-Sep, 00:03
	2-4km ENE	Recorded	1	Projectile	S to N	N/K	15-Sep, 00:04
	2-4km ENE	Recorded	4	Projectile	N to S	N/K	15-Sep, 00:05
	2-4km ENE	Recorded	3	Projectile	S to N	N/K	15-Sep, 00:05
	2-4km ENE	Recorded	3	Projectile	N to S	N/K	15-Sep, 00:06
	2-4km ENE	Recorded	8	Projectile	N to S	N/K	15-Sep, 00:27
	2-4km ESE	Recorded	3	Projectile	N to S	N/K	15-Sep, 00:35
	2-4km ENE	Recorded	11	Projectile	N to S	N/K	15-Sep, 00:36
	2-4km ENE	Recorded	15	Projectile	N to S	N/K	15-Sep, 00:38
a. a. a	2-4km ENE	Recorded	4	Projectile	N to S	N/K	15-Sep, 00:40
SMM camera	2-4km ENE	Recorded	2	Projectile	N to S	N/K	15-Sep, 00:41
1km SW of	1-2km E	Recorded	1	Projectile	N to S	N/K	15-Sep, 00:41
Pyshchevyk (government-	2-4km ENE	Recorded	3	Projectile	N to S	N/K	15-Sep, 00:52
controlled,	2-4km ENE	Recorded	3	Projectile	S to N	N/K	15-Sep, 00:55
25km NE of	1-2km E	Recorded	1	Explosion	Undetermined	N/K	15-Sep, 00:55
Mariupol)	2-4km ENE	Recorded	3	Projectile	N to S	N/K	15-Sep, 01:02

<sup>&</sup>lt;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.

	2-4km ENE	Recorded	8	Projectile	N to S	N/K	15-Sep, 01:03
	3-5km E	Recorded	1	Explosion	11 10 5	N/K	15-Sep, 01:03
	2-4km ENE	Recorded	2	Projectile	N to S	N/K	15-Sep, 01:25
	2-4km ENE	Recorded	11	Projectile	N to S	N/K	15-Sep, 01:26
	2-4km ENE	Recorded	7	Projectile	N to S	N/K	15-Sep, 01:30
	2-4km ENE	Recorded	10	Projectile	N to S	N/K	15-Sep, 01:31
	2-4km ENE	Recorded	28	Projectile	N to S	N/K	15-Sep, 01:36
	2-4km E	Recorded	4	Projectile	S to N	N/K	15-Sep, 01:40
	2-4km E	Recorded	2	Explosion	Undetermined	N/K	15-Sep, 01:40
	2-4km E	Recorded	3	Projectile	S to N	N/K	15-Sep, 01:41
	2-4km E	Recorded	6	Projectile	S to N	N/K	15-Sep, 02:03
	2-4km ENE	Recorded	7	Projectile	N to S	N/K	15-Sep, 02:05
	2-4km ENE	Recorded	4	Projectile	N to S	N/K	15-Sep, 02:27
	2-4km E	Recorded	2	Projectile	N to S	N/K	15-Sep, 02:29
	2-4km ENE	Recorded	10	Projectile	N to S	N/K	15-Sep, 02:30
	2-4km ESE	Recorded	2	Projectile	N to S	N/K	15-Sep, 02:30
	2-4km ENE	Recorded	20	Projectile	N to S	N/K	15-Sep, 02:31
	2-4km ENE	Recorded	6	Projectile	N to S	N/K	15-Sep, 02:36
	2-4km ENE	Recorded	20	Projectile	N to S	N/K	15-Sep, 02:37
	2-4km ENE	Recorded	20	Projectile	N to S	N/K	15-Sep, 02:40
	2-4km ENE	Recorded	6	Projectile	N to S	N/K	15-Sep, 03:24
	2-4km ENE	Recorded	17	Projectile	N to S	N/K	15-Sep, 03:30
	2-4km E	Recorded	1	Projectile	S to N	N/K	15-Sep, 03:40
	2-4km E	Recorded	1	Projectile	S to N	N/K	15-Sep, 03:43
	2-4km E	Recorded	2	Projectile	N to S	N/K	15-Sep, 03:47
	2-4km E	Recorded	2	Projectile	S to N	N/K	15-Sep, 03:55
				Illumination			
	2-4km ENE	Recorded	1	flare	In vertical flight	N/K	15-Sep, 04:16
	2-4km ENE	Recorded	1	Projectile	N to S (in vertical flight)	N/K	15 San 04:19
	2-4km E	Recorded	1	Projectile	S to N	N/K N/K	15-Sep, 04:18 15-Sep, 04:24
	2-4km E	Recorded	6	Projectile	N to S	N/K	15-Sep, 05:05
	2-4km E	Recorded	7	Projectile	N to S	N/K	15-Sep, 05:15
	2-4km ESE	Recorded	4	Projectile	S to N	N/K	15-Sep, 05:19
SMM camera in	2 TRIII ESE	recorded		Trojectie	5 10 11	11/11	13 Бер, 03.17
Hranitne (government- controlled, 60km S of							
Donetsk)	1-2km E	Recorded	1	Explosion		N/K	15-Sep, 05:24
SMM camera in	3-5km ESE	Recorded	5	Projectile	NE to SW	N/K	15-Sep, 01:22
Krasnohorivka (government- controlled, 21km W of							
Donetsk)	3-5km ESE	Recorded	4	Projectile	SW to NE	N/K	15-Sep, 01:22
	1-3km SSE	Recorded	1	Projectile	WNW to ESE	N/K	14-Sep, 22:39
	1-3km SSE	Recorded	1	Explosion	Impact	N/K	14-Sep, 22:39
CMM og::	1-3km SSE	Recorded	12	Projectile	WNW to ESE	N/K	14-Sep, 22:56
SMM camera in Kriakivka	1-3km SSE	Recorded	11	Projectile	WNW to ESE	N/K	14-Sep, 22:57
(government-	1-3km SSE	Recorded	2	Projectile	NE to SW	N/K	14-Sep, 22:58
controlled,	1-3km SSE	Recorded	1	Projectile	WNW to ESE	N/K	14-Sep, 22:59
38km NW of	1-3km SSE	Recorded	5	Muzzle flash		N/K	14-Sep, 23:00
Luhansk)	1-3km SSE	Recorded	4	Projectile	NE to SW	N/K	14-Sep, 23:45
	1-3km SSE	Recorded	5	Projectile	WSW to ENE	N/K	14-Sep, 23:48
	1-3km SSE	Recorded	4	Projectile	WSW to ENE	N/K	15-Sep, 00:00
	1-3km SSE	Recorded	4	Projectile	WSW to ENE	N/K	15-Sep, 00:24
SMM camera E	1-3km NE	Recorded	4	Projectile	SE to NW	N/K	14-Sep, 21:01
of Lomakyne	1-3km NE	Recorded	1	Projectile	NW to SE	N/K	14-Sep, 21:01
(government-	1-3km NE	Recorded	2	Explosion	Undetermined	N/K	14-Sep, 21:01

controlled,	1-3km NE	Recorded	1	Explosion	Undetermined	N/K	15-Sep, 00:12
15km NE of	1 2lam NE	Dagandad	1	Duningtila	CE to NW	NI/IZ	15 Cam 00.56
Mariupol) SMM camera at	1-3km NE	Recorded	1	Projectile	SE to NW	N/K	15-Sep, 00:56
entry-exit	1-3km E	Recorded	1	Explosion	Undetermined	N/K	14-Sep, 22:14
checkpoint in Maiorsk (government- controlled, 45km NE of							
Donetsk)	1-3km E	Recorded	1	Projectile	N to S	N/K	15-Sep, 03:24
SMM camera at	1-3km SSW	Recorded	12	Projectile	SE to NW	N/K	14-Sep, 23:19
entry-exit checkpoint in Marinka (government- controlled, 23km SW of							
Donetsk)	1-3km SSW	Recorded	2	Projectile	SE to NW	N/K	14-Sep, 23:20
SMM camera at	3-5km ENE	Recorded	2	Explosion	Undetermined	N/K	14-Sep, 21:40
Oktiabr mine	3-5km E	Recorded	1	Explosion	Undetermined	N/K	14-Sep, 22:58
(non-	2-4km ENE	Recorded	1	Projectile	NW to SE	N/K	15-Sep, 01:38
government- controlled, 9km	2-4km NE	Recorded	1	Projectile	ENE to WSW	N/K	15-Sep, 01:41
NW of Donetsk							
city centre)	3-5km NE	Recorded	1	Explosion	Undetermined	N/K	15-Sep, 01:42
SMM camera at	1-3km SSE	Recorded	2	Burst	E to W	N/K	14-Sep, 20:56
entry-exit checkpoint in Pyshchevyk (government- controlled, 25km NE of							
Mariupol)	1-3km SSE	Recorded	1	Projectile	E to W	N/K	15-Sep, 02:29
	3-4km SSE	Heard	2	Explosion	Undetermined	N/K	15-Sep, 09:05
	2-3km SSE	Heard	2	Explosion	Undetermined	N/K	15-Sep, 09:10
	1km S	Heard	14	Burst		HMG	15-Sep, 09:42
	2-3km SSE	Heard	1	Explosion	Undetermined	HMG	15-Sep, 10:07
	2-3km SSE	Heard	1	Explosion	Undetermined	N/K	15-Sep, 10:20
	1km SSE	Heard	6	Burst		HMG	15-Sep, 10:35
	1km SSE	Heard	3	Explosion	Undetermined	N/K	15-Sep, 10:40
SE part of						Small-	
Avdiivka (non-	1km SSE	Heard	21	Shot		arms	15-Sep, 10:50
government	2-3km SSE	Heard	1	Explosion	Undetermined	N/K	15-Sep, 11:02
controlled,	2-3km SSE	Heard	1	Explosion	Undetermined	N/K	15-Sep, 11:43
17km N of	1.01 000	77 1	2	G1 .		Small-	15.0 11.57
Donetsk)	1-2km SSE	Heard	3	Shot	TT 1	arms	15-Sep, 11:57
	3-4km SSE	Heard	1	Explosion	Undetermined	N/K	15-Sep, 12:20
	1-2km SSE	Heard	1	Explosion	Undetermined	N/K	15-Sep, 12:35
	1-2km SSE	Heard	1	Shot		Small- arms	15-Sep, 12:43
	2-3km SSE	Heard	1	Explosion	Undetermined	N/K	15-Sep, 12:47
	2-3KIII 33E	Ticaru	1	Explosion	Ondetermined	Small-	13-аср, 12.47
	1-2km SE	Heard	2	Shot		arms	15-Sep, 15:12
4km W of Yasynuvata (non- government- controlled, 16km NE of Donetsk)	1-2km SW	Heard	4	Shot		Small- arms	15-Sep, 12:46
1.8km N of Petrivske (non- government controlled,41km	1-2km SE	Heard	1	Shot	Assessed as outside the disengagement area	Small- arms	15-Sep, 10:40

S of Donetsk)					Assessed as		
					outside the disengagement	Small-	15-Sep,
	1-2km SE	Heard	14	Burst	area	arms	10:46-10:50
1km NNW of entry-exit	2-3km SE	Heard	7	Burst		N/K	15-Sep, 09:44-09:49
checkpoint in Pyshchevyk (government controlled,	2 JKIII JE	Hemu	,	Burst		TVIX	03.44 02.49
25km NE of Mariupol)	2-3km N	Heard	1	Burst		Small- arms	15-Sep, 10:17
	1-2km ENE	Heard	7	Burst		Small- arms	15-Sep, 10:02-10:04
		110414		20200		Small-	15-Sep,
	1-2km ENE	Heard	5	Shot		arms	10:02-10:04 15-Sep,
1km SW of Lebedynske	1-2km ENE	Heard	30	Shot		N/K	10:10-10:13 15-Sep,
(government-	1-2km ENE	Heard	5	Explosion	Undetermined	N/K	10:32-10:35
controlled, 16km NE of	1-2km ENE	Heard	2	Burst		SALW	15-Sep, 10:32-10:35
Mariupol)	1-2km ENE	Heard	5	Shot		Small- arms	15-Sep, 10:32-10:35
	1-2km ENE	Heard	3	Explosion	Undetermined	N/K	15-Sep, 10:40-10:45
	1-2km ENE	Heard	3	Shot		Small- arms	15-Sep, 10:40-10:45
	1-2KIII EINE	ricard	3	Shot		Small-	15-Sep,
Lebedynske	2-3km NE	Heard	1	Burst		arms	12:43-12:55
(government controlled,	2-3km NE	Heard	3	Shot		Small- arms	15-Sep, 12:43-12:55
16km NE of Mariupol)	2-3km ENE	Heard	5	Explosion	Outgoing	N/K	15-Sep, 12:43-12:55
	2-3km ENE	Heard	5	Explosion	Impact		15-Sep, 12:43-12:55
	1-2km NE	Heard	2	Explosion	Undetermined	N/K	15-Sep, 10:32-10:40
	1-2km NE	Heard	15	Burst		Small- arms	15-Sep, 10:32-10:40
Pavlopil (government- controlled, 26km NE of	1-2km NE	Heard	Unc oun tabl e	Shot	Uncountable	Small- arms	15-Sep, 10:32-10:40
Mariupol)	N/Kkm SE	Heard	8	Explosion	Undetermined	N/K	15-Sep, 11:32-11:45
	2km NE	Heard	3	Shot		Small-	15-Sep, 12:50
	N/K km S	Heard	3	Burst		arms HMG	15-Sep, 12:30 15-Sep, 13:45
	3-4km SE	Heard	2	Burst		HMG	14-Sep, 20:15-20:16
	4-6km SE	Heard	2	Explosion	Undetermined	N/K	14-Sep, 21:55-21:56
	4-6km SE	Heard	1	Explosion	Undetermined	N/K	14-Sep, 22:00-22:01
	5-6km SE	Heard	10	Explosion	Undetermined	N/K	14-Sep, 22:34-22:39
	3-4km SE	Heard	4	Burst		Small- arms	14-Sep, 22:35-22:36
Svitlodarsk	3-4km SE	Heard	10	Burst		Small- arms	14-Sep, 22:48-22:52
(government-controlled,	3-4km SE	Heard	6	Burst		Small- arms	14-Sep, 23:06-23:10
57km NE of Donetsk)	4-5km SE	Heard	20	Burst		HMG	14-Sep, 23:30-23:35

	5-6km SE	Heard	10	Explosion	Undetermined	N/K	14-Sep, 23:35-23:39
	3-4km SE	Heard	4	Burst		Small- arms	15-Sep, 03:55-03:58
	5-6km SE	Heard	6	Explosion	Undetermined	N/K	15-Sep, 03:55-03:59
Horlivka (non- government- controlled, 39km NE of			7			- " -	
Donetsk)	3-5km NW	Heard	4	Explosion	Undetermined	N/K	15-Sep, 18:21
SMM camera in	2-4km ESE	Recorded	5	Projectile	SSW to NNE	N/K	15-Sep, 22:55
Avdiivka (government- controlled, 17km N of	2-4km ESE	Recorded	1	Projectile  Illumination	SSW to NNE	N/K	15-Sep, 22:56
Donetsk)	2-4km SE	Recorded	1	flare	NE to SW	N/K	16-Sep, 03:11
SMM camera in	1-3km SSE	Recorded	4	Projectile	ENE to WSW	N/K	15-Sep, 20:16
Government- controlled,	1-3km SSE	Recorded	14	Projectile	ENE to WSW	N/K	15-Sep, 20:31
31km SW of Donetsk)	1-3km SSE	Recorded	13	Projectile	ENE to WSW	N/K	15-Sep, 20:32
SMM camera in	1-3km SE	Recorded	5	Projectile	NE to SW	N/K	15-Sep, 21:32
Chermalyk	1-3km SE	Recorded	4	Projectile	NE to SW	N/K	15-Sep, 21:33
(government- controlled, 31km NE of				, and the second			
Mariupol)	1-3km SE	Recorded	2	Projectile	NE to SW	N/K	15-Sep, 21:34
	1-3km S	Recorded	4	Explosion	Undetermined	N/K	15-Sep, 20:47
	1-3km S	Recorded	2	Explosion	Undetermined	N/K	15-Sep, 20:50
	1-3km S	Recorded	1	Projectile	E to W	N/K	15-Sep, 20:58
	1-3km SW 1-3km SW	Recorded Recorded	2	Projectile Projectile	W to E	N/K N/K	15-Sep, 21:00 15-Sep, 21:24
	1-3km SW	Recorded	1	Projectile	NW to SE	N/K	15-Sep, 21:24
	1-3km SW	Recorded	1	Projectile	NW to SE	N/K	15-Sep, 21:29
	1-3km SE	Recorded	1	Projectile	NE to SW	N/K	15-Sep, 21:35
SMM camera at	1-3km SE	Recorded	1	Projectile	NE to SW	N/K	15-Sep, 21:37
Donetsk	1-3km SW	Recorded	2	Projectile	SE to NW	N/K	15-Sep, 21:46
Filtration	1-3km SW	Recorded	1	Projectile	SSW to NNE	N/K	15-Sep, 21:52
Station (15km N	1-3km SW	Recorded	4	Projectile	SSW to NNE	N/K	15-Sep, 22:55
of Donetsk)	1-3km SW	Recorded	1	Projectile	W to E	N/K	15-Sep, 22:56
	1-3km SW	Recorded	1	Illumination flare		N/K	15-Sep, 23:02
	1-3km SW	Recorded	3	Projectile	NW to SE	N/K	15-Sep, 23:24
	1-3km S	Recorded	1	Projectile	E to W	N/K	16-Sep, 01:06
	1-3km SW	Recorded	1	Projectile	NW to SE	N/K	16-Sep, 01:49
	1-3km SSW 1-3km SSW	Recorded Recorded	3	Projectile Projectile	W to E W to E	N/K N/K	16-Sep, 02:22 16-Sep, 02:32
	1-3km SW	Recorded	4	Projectile	SE to NW	N/K	16-Sep, 02.32
	2-4km E	Recorded	1	Projectile	N to S	N/K	15-Sep, 20:20
	2-4km E	Recorded	2	Projectile	N to S	N/K	15-Sep, 20:36
	2-4km ENE	Recorded	5	Projectile	N to S	N/K	15-Sep, 20:37
SMM camera	2-4km E	Recorded	1	Projectile	N to S	N/K	15-Sep, 20:38
1km SW of	2-4km E	Recorded	1	Projectile	S to N	N/K	15-Sep, 20:43
Pyshchevyk (government-	2-4km E	Recorded	1	Projectile	N to S	N/K	15-Sep, 20:43
controlled,	2-4km ENE	Recorded	1	Projectile	N to S	N/K	15-Sep, 20:44
25km NE of	2-4km ENE	Recorded	3	Projectile	N to S	N/K	15-Sep, 20:45
Mariupol)	2-4km ENE	Recorded	1	Explosion	ENE to WSW (undetermined)	N/K	15-Sep, 20:45
	2-4km ENE	Recorded	2	Projectile	N to S	N/K	15-Sep, 20:46
1	2-4km E	Recorded	1	Projectile	N to S	N/K	15-Sep, 20:47

	İ			E to W		I
2-4km E	Recorded	1	Explosion	(undetermined)	N/K	15-Sep, 20:47
2-4km E	Recorded	1	Projectile	N to S	N/K	15-Sep, 20:48
			j	E to W		1
2-4km E	Recorded	1	Explosion	(undetermined)	N/K	15-Sep, 20:49
				E to W		
2-4km E	Recorded	1	Explosion	(undetermined)	N/K	15-Sep, 20:51
2-4km E	Recorded	1	Projectile	NW to SE	N/K	15-Sep, 20:54
2.41 - E	D 1.1	1	Б 1 .	E to W	NI /IZ	15.5 20.56
2-4km E	Recorded	1	Explosion	(undetermined)	N/K	15-Sep, 20:56
2-4km E	Recorded	2	Projectile	S to N	N/K	15-Sep, 20:59
2-4km E	Recorded	2	Muzzle flash	E to W	N/K	15-Sep, 21:07
2-4km E	Recorded	3	Projectile	N to S	N/K	15-Sep, 21:07
2-4km E	Recorded	7	Projectile	N to S	N/K	15-Sep, 21:09
2-4km E	Recorded	1	Projectile	S to N	N/K	15-Sep, 21:09
2-4km E	Recorded	1	Explosion	E to W (undetermined)	N/K	15-Sep, 21:35
2-4km E	Recorded	8	Projectile	N to S	N/K	15-Sep, 21:35
2-4km ENE	Recorded	5	Projectile	N to S	N/K	15-Sep, 21:36
2-4km ENE	Recorded	3	Projectile	N to S	N/K	15-Sep, 21:41
2-4km E	Recorded	5	Projectile	N to S	N/K	15-Sep, 21:41
2-4km E	Recorded	1	Muzzle flash	E to W	N/K	15-Sep, 21:49
2-4km E	Recorded	6	Projectile Projectile	S to N	N/K	15-Sep, 21:49 15-Sep, 21:52
2-4km E	Recorded	3	Projectile	N to S	N/K	15-Sep, 21:52
	Recorded	6	*	1	N/K	
2-4km E 2-4km E	Recorded	3	Projectile Projectile	N to S N to S	N/K N/K	15-Sep, 21:54 15-Sep, 21:56
2-4km E	Recorded	6	*	S to N	N/K N/K	
2-4km E	Recorded	3	Projectile	N to S	N/K	15-Sep, 21:56 15-Sep, 21:59
2-4km E		6	Projectile Projectile		N/K	
	Recorded		Projectile	S to N		15-Sep, 21:59
2-4km E	Recorded Recorded	5	Muzzle flash	E to W	N/K	15-Sep, 21:59
2-4km E 2-4km E	Recorded	8	Projectile Projectile	N to S N to S	N/K N/K	15-Sep, 22:00 15-Sep, 22:01
Z-4KIII E	Recorded	0	Frojectile	E to W	IN/IX	13-sep, 22.01
2-4km E	Recorded	1	Explosion	(undetermined)	N/K	15-Sep, 22:01
2-4km E	Recorded	1	Muzzle flash	E to W	N/K	15-Sep, 22:04
2-4km E	Recorded	2	Projectile	S to N	N/K	15-Sep, 22:04
2 2	110001000		Trojectiic	E to W	11/11	10 Sep, 22.0 :
2-4km E	Recorded	1	Explosion	(undetermined)	N/K	15-Sep, 22:04
2-4km E	Recorded	2	Projectile	S to N	N/K	15-Sep, 22:05
2-4km E	Recorded	1	Muzzle flash	E to W	N/K	15-Sep, 22:05
2-4km E	Recorded	1	Burst	N to S	N/K	15-Sep, 22:05
				E to W		
2-4km E	Recorded	1	Explosion	(undetermined)	N/K	15-Sep, 22:06
2-4km E	Recorded	1	Projectile	N to S	N/K	15-Sep, 22:07
2-4km E	Recorded	8	Projectile	N to S	N/K	15-Sep, 22:08
2-4km E	Recorded	1	Burst	N to S	N/K	15-Sep, 22:08
2-4km E	Recorded	2	Projectile	N to S	N/K	15-Sep, 22:09
2-4km E	Recorded	1	Burst	N to S	N/K	15-Sep, 22:17
2-4km E	Recorded	4	Projectile	S to N	N/K	15-Sep, 22:18
2-4km E	Recorded	2	Projectile	N to S	N/K	15-Sep, 22:18
2-4km ENE	Recorded	4	Projectile	N to S	N/K	15-Sep, 22:26
2-4km ENE	Recorded	1	Projectile	S to N	N/K	15-Sep, 22:26
2-4km E	Recorded	1	Muzzle flash	E to W	N/K	15-Sep, 22:26
2-4km E	Recorded	1	Projectile	N to S	N/K	15-Sep, 22:26
2-4km ENE	Recorded	6	Projectile	N to S	N/K	15-Sep, 22:27
2-4km ENE	Recorded	2	Projectile	N to S	N/K	15-Sep, 22:28
2-4km E	Recorded	1	Projectile	N to S	N/K	15-Sep, 22:50
2-4km E	Recorded	1	Projectile	S to N	N/K	15-Sep, 22:50
2-4km E	Recorded	1	Projectile	N to S	N/K	15-Sep, 22:51
2-4km ENE	Recorded	8	Projectile	N to S	N/K	15-Sep, 22:59

1	2-4km ENE	Recorded	4	Projectile	N to S	N/K	15-Sep, 23:00
	2-4km ENE	Recorded	10	Projectile	N to S N to S	N/K	15-Sep, 23:01
	2-4km E	Recorded	3	Projectile	N to S	N/K	15-Sep, 23:03
	2-4km E	Recorded	1	Projectile	N to S	N/K	15-Sep, 23:04
	2-4km ENE	Recorded	6	Projectile	N to S	N/K	15-Sep, 23:12
	2-4km ENE	Recorded	1	Muzzle flash	11 10 5	N/K	15-Sep, 23:12
	2-4km ENE	Recorded	2	Projectile Projectile	N to S	N/K	15-Sep, 23:12
	2-4km ENE	Recorded	1	Projectile	S to N	N/K	15-Sep, 23:13
	2-4km ENE	Recorded	8	Projectile	N to S	N/K	15-Sep, 23:14
	2-4km ENE	Recorded	6	Projectile	N to S	N/K	15-Sep, 23:14 15-Sep, 23:22
	2-4km ENE	Recorded	10	Projectile	N to S	N/K N/K	15-Sep, 23:22 15-Sep, 23:23
	2-4km ENE	Recorded	6	Projectile	N to S	N/K	15-Sep, 23:24
	2-4km ENE	Recorded	2	Projectile	N to S	N/K	15-Sep, 23:40
	2-4km ENE	Recorded	3	Projectile	N to S	N/K	15-Sep, 23:41
	2-4km ENE	Recorded	1	Projectile	N to S	N/K	15-Sep, 23:42
	2-4km ENE	Recorded	8	Projectile	N to S	N/K	16-Sep, 00:02
	2-4km E	Recorded	1	Projectile	N to S	N/K	16-Sep, 00:23
	2-4km E	Recorded	2	Projectile	N to S	N/K	16-Sep, 02:09
	2-4km E	Recorded	3	Projectile	N to S	N/K	16-Sep, 02:10
	2-4km E	Recorded	1	Projectile	N to S	N/K	16-Sep, 02:19
	2-4km E	Recorded	3	Projectile	N to S	N/K N/K	16-Sep, 02:19
	2-4km E	Recorded	1	Projectile	N to S	N/K	16-Sep, 03:19
	2-4km E	Recorded	1	Projectile	N to S	N/K	16-Sep, 03:32
	2-4km E	Recorded	5	Projectile	S to N	N/K N/K	16-Sep, 03.32
	2-4km E	Recorded	1	Projectile	N to S	N/K	16-Sep, 04:02
	2-4km E	Recorded	1	Projectile	S to N	N/K N/K	16-Sep, 04:02
	1-3km E	Recorded	2	Projectile	S to N	N/K	16-Sep, 05:03
	1-3km E	Recorded	1	Projectile	S to N	N/K	
	1-3km E	Recorded	3	Projectile	N to S	N/K N/K	16-Sep, 05:04 16-Sep, 05:07
	1-3km E	Recorded	2	Projectile	S to N	N/K	16-Sep, 05:07
	1-3km ESE	Recorded	2	Muzzle flash	5 10 11	N/K	16-Sep, 02:12
	1-3km ESE	Recorded	1	Projectile Projectile	SW to NE	N/K	16-Sep, 02:12
	1-3km ESE	Recorded	1	Burst	N to S	N/K	16-Sep, 02:12
SMM camera in	1-3km ESE	Recorded	1	Projectile	N to S	N/K	16-Sep, 02:12
Krasnohorivka (government-	1-3km ESE	Recorded	1	Projectile	S to N	N/K	16-Sep, 02:21
controlled,	1-3km ESE	Recorded	1	Burst	NE to SW	N/K	16-Sep, 02:41
21km W of	1-3km ESE	Recorded	1	Burst	WNW to ESE	N/K	16-Sep, 02:49
Donetsk)	2-4km ESE	Recorded	1	Muzzle flash	WIT TO ESE	N/K	16-Sep, 03:26
	2-4km ESE	Recorded	1	Projectile	NNE to SSW	N/K	16-Sep, 03:26
	2-4km ESE	Recorded	2	Projectile	WNW to ESE	N/K	16-Sep, 03:26
SMM camera in	1-3km SSE	Recorded	1	Projectile	WSW to ENE	N/K	15-Sep, 21:49
Kriakivka (government- controlled, 38km NW of	1 3km bbL	Recorded	1	Trojectne	WS W to LIVE	11/12	13 500, 21.47
Luhansk)	1-3km ESE	Recorded	11	Muzzle flash		N/K	15-Sep, 21:37
SMM camera E	1 JKIII EGE	recorded	11	TATULLIC HASH		11/12	15 Sep, 21.57
of Lomakyne (government- controlled,							
15km NE of Mariupol)	2-4km ENE	Recorded	2	Explosion	Undetermined	N/K	15-Sep, 19:30
SMM camera at entry-exit	2-4KIII EINE	Recorded		Explosion	Undetermined	IN/K	13-зер, 19:30
checkpoint in Maiorsk (government- controlled,							
45km NE of	2.41 25	,		Illumination		3.7/77	15.5
Donetsk)	2-4km SE	Recorded	1	flare	In vertical flight	N/K	15-Sep, 21:20
SMM camera at	2-3km NNE	Recorded	3	Projectile	SE to NW	N/K	15-Sep, 22:49

Controlled,   Controlled,								
Marring (government-controlled, 23km NNE)		2-3km N	Recorded	3	Explosion	Undetermined	N/K	15-Sep, 22:49
1-3km NNE		2-3km NNE	Recorded	1	Projectile	W to E	N/K	15-Sep, 23:15
Sam NNE		2-3km NNE	Recorded	7	Projectile	NNE to SSW	N/K	15-Sep, 23:16
23km NNE		1-3km NNE	Recorded	10	Projectile	W to E	N/K	
1-3km NNE   Recorded   3   Projectile   W to E   N/K   15-Sep, 23-19			Recorded	1		SW to NE		
1-3km NNE			Recorded	3	·			
1-3km NNE	Donetsk)							, , , , , , , , , , , , , , , , , , ,
1-3km NNE		1-3km NNE	Recorded	10	Projectile	,	N/K	16-Sep, 01:39
1-3km NNE   Recorded   1   Explosion   Undetermined   N/K   16-Sep, 02:50					•			
1-3km NNE		1-3km NNE	Recorded	1	Projectile	vertical flight)	N/K	16-Sep, 01:42
1-3km NNE		1-3km N	Recorded	1	Explosion		N/K	16-Sep, 02:02
1.3km NNE						,		
SMM camera at		1-3km NNE	Recorded	1	Projectile		N/K	16-Sep, 02:50
SAMM camera at entry-exit checkpoint in Pyshchevyk (povernment-controlled, 25km NE of Mariupol)							27/77	4.50 00.51
1-3km S   Recorded   1   Projectile   W to E   N/K   15-Sep, 20:39	G) D (							
1-3km S								
Pyshchevyk (government-controlled, 25km NE of Mariupol)   1-3km S   Recorded   2   Projectile   W to E   N/K   15-Sep, 20:58								
Covernment   Controlled   1-3km S   Recorded   1   Projectile   W to E   N/K   15-Sep, 20:58					·			
Controlled, 25km NE of   Mariupol)				2				
2-4km N   Recorded   1   Projectile   E to W   N/K   16-Sep, 00:48		1-3km S	Recorded	1	Projectile	W to E	N/K	15-Sep, 20:58
2-4km N   Recorded   1   Projectile   W to E   N/K   15-Sep, 21:50								
2-4km N	Mariupol)	1-3km SSE	Recorded	1	Projectile	E to W	N/K	16-Sep, 00:48
2-4km   Recorded   3   Burst   W to E   N/K   15-Sep, 21:50		2-4km N	Recorded	1	Projectile	W to E	N/K	15-Sep, 21:19
NNW   Recorded   3   Burst   W to E   N/K   15-Sep, 21:50		2-4km N	Recorded	1	Burst	E to W	N/K	15-Sep, 21:50
2-4km N   Recorded   17   Projectile   W to E   N/K   15-Sep, 21:52		2-4km						•
2-4km NNW Recorded		NNW	Recorded	3	Burst	W to E	N/K	15-Sep, 21:50
NNW   Recorded   1   Burst   Burst   W to B   N/K   15-Sep, 21:52		2-4km N	Recorded	17	Projectile	W to E	N/K	15-Sep, 21:52
2-4km NNE		2-4km						
2-4km NN		NNW	Recorded	1	Burst	E to W		15-Sep, 21:52
2-4km NNE   Recorded   1   Burst   E to W   N/K   15-Sep, 21:53		2-4km NNE	Recorded		Burst	W to E		15-Sep, 21:52
2-4km N   Recorded   8   Projectile   W to E   N/K   15-Sep, 21:54		2-4km N	Recorded	5	Projectile	W to E	N/K	15-Sep, 21:53
2-4km N		2-4km NNE	Recorded		Burst	E to W	N/K	15-Sep, 21:53
2-4km N   Recorded   2   Projectile   W to E   N/K   15-Sep, 21:56		2-4km N	Recorded	8	Projectile	W to E	N/K	15-Sep, 21:54
2-4km N   Recorded   1   Projectile   W to E   N/K   15-Sep, 22:00		2-4km N	Recorded	13	Projectile	W to E	N/K	15-Sep, 21:55
2-4km N		2-4km N	Recorded	2	Projectile	W to E	N/K	15-Sep, 21:56
2-4km N		2-4km N	Recorded	1	Projectile	W to E	N/K	15-Sep, 22:00
2-4km N		2-4km N	Recorded	1	Projectile	W to E	N/K	15-Sep, 22:02
2-4km NN		2-4km N	Recorded	2	Projectile	W to E	N/K	15-Sep, 22:03
2-4km NNE		2-4km N	Recorded	3	Projectile	W to E	N/K	15-Sep, 22:04
2-4km N					·	1		
2-4km NNE					,			
2-4km NNE								•
2-4km N   Recorded   2   Projectile   W to E   N/K   15-Sep, 22:20								
2-4km N   Recorded   14   Projectile   W to E   N/K   15-Sep, 22:23								
2-4km N   Recorded   1   Projectile   W to E   N/K   15-Sep, 22:24					,			
2-4km N   Recorded   1   Projectile   W to E   N/K   15-Sep, 22:26								
2-4km N   Recorded   8   Projectile   W to E   N/K   15-Sep, 22:27					, , , , , , , , , , , , , , , , , , , ,			
2-4km N   Recorded   1   Projectile   W to E   N/K   15-Sep, 22:28								
2-4km N   Recorded   1   Projectile   W to E   N/K   15-Sep, 22:29					,			
2-4km N   Recorded   1   Projectile   W to E   N/K   15-Sep, 22:30					,			
2-4km N   Recorded   1   Illumination					·	1		
2-4km N   Recorded   1   flare   N to S   N/K   15-Sep, 22:50		2-4km N	Recorded	1		W to E	N/K	15-Sep, 22:30
2-4km NNE		2 Alem M	Dagordad	1		N to C	NI/IZ	15 San 22:50
2-4km NNE         Recorded         5         Projectile         W to E         N/K         15-Sep, 23:34           SMM camera 1km SW of Shyrokyne (20km E of         2-4km N         Recorded         17         Projectile         W to E         N/K         15-Sep, 23:35           2-4km N         Recorded         1         Burst         E to W         N/K         15-Sep, 23:35           2-4km N         Recorded         19         Projectile         W to E         N/K         15-Sep, 23:37           V to E         N/K         15-Sep, 23:38         Projectile         W to E         N/K         15-Sep, 23:38						1		
SMM camera 1km SW of Shyrokyne (20km E of)         2-4km N         Recorded         17         Projectile         W to E         N/K         15-Sep, 23:35           2-4km N         Recorded         1         Burst         E to W         N/K         15-Sep, 23:35           2-4km N         Recorded         19         Projectile         W to E         N/K         15-Sep, 23:37           YK         15-Sep, 23:35         Projectile         W to E         N/K         15-Sep, 23:37           YK         15-Sep, 23:38         Projectile         W to E         N/K         15-Sep, 23:38						1		
SMM camera         1km SW of Shyrokyne         2-4km NE         Recorded         1         Burst         E to W         N/K         15-Sep, 23:35           Shyrokyne (20km E of         2-4km N         Recorded         19         Projectile         W to E         N/K         15-Sep, 23:37           V to E         N/K         15-Sep, 23:38         23:38								
1km SW of Shyrokyne         2-4km NE         Recorded         1         Burst         E to W         N/K         15-Sep, 23:35           (20km E of         2-4km N         Recorded         19         Projectile         W to E         N/K         15-Sep, 23:37           W to E         N/K         15-Sep, 23:38         Projectile         W to E         N/K         15-Sep, 23:38	SMM camera							
(20km E of 2-4km N Recorded 22 Projectile W to E N/K 15-Sep, 23:38								
	• •				•			
Monitornal								
Manupon 2-4km Nine   Recorded   2   Burst   E to w   N/K   15-Sep, 25:38	Mariupol)	2-4km NNE	Recorded	2	Burst	E to W	N/K	15-Sep, 23:38

I	1 24 37	۱, ۱,		<b>.</b>	l	27.77	1 1 5 6 6 6 6 6
	2-4km N	Recorded	1	Burst	W to E	N/K	15-Sep, 23:39
	2-4km N	Recorded	9	Projectile	W to E	N/K	15-Sep, 23:40
	2-4km NNE	Recorded	1	Burst	E to W	N/K	15-Sep, 23:41
	2-4km N	Recorded	1	Projectile	W to E	N/K	15-Sep, 23:42
	2-4km N	Recorded Recorded	1	Projectile Burst		N/K N/K	15-Sep, 23:47
	2-4km NNE 2-4km NNE	Recorded	1	Projectile	E to W W to E	N/K N/K	15-Sep, 23:48 15-Sep, 23:48
	2-4km N	Recorded	5	Projectile	W to E	N/K	15-Sep, 23:46 15-Sep, 23:50
	2-4km NNE	Recorded	1	Burst	E to W	N/K	15-Sep, 23:50
	2-4km N	Recorded	2	Projectile	W to E	N/K	15-Sep, 23:51
	2-4km NNE	Recorded	1	Burst	E to W	N/K	15-Sep, 23:51 15-Sep, 23:52
	3-4km	Recorded	1	Illumination	E to W	11/11	13-вер, 23.32
	NNW	Recorded	1	flare	In vertical flight	N/K	16-Sep, 02:01
0.8km S of	5-6km NW	Heard	2	Explosion	Undetermined	N/K	16-Sep, 14:21
Novohryhorivka	5-6km NW	Heard	1	Explosion	Undetermined	N/K	16-Sep, 14:56
(non-				-			
government- controlled,							
61km NE of							
Donetsk)	3-5km NW	Heard	1	Explosion	Undetermined	N/K	16-Sep, 15:00
Novotroitske				•			16-Sep,
(government-	2km NNW	Heard	4	Explosion	Undetermined	N/K	15:02-15:05
controlled,							
36km SW of	2 21 NE	111	1	E1:	I I a data analia a d	NI/IZ	16 5 15.00
Donetsk) Chermalyk	2-3km NE	Heard	1	Explosion	Undetermined	N/K	16-Sep, 15:09 16-Sep,
(government-	1-2km NE	Heard	2	Explosion	Undetermined	N/K	10:06-10:10
controlled,							
31km NE of						Small-	16-Sep,
Mariupol)	1-2km SSW	Heard	4	Burst		arms	10:06-10:10
	2.51	** 1	0	ъ.		ID (C	15-Sep,
	3-5km SSW	Heard	8	Burst		HMG	18:30-18:35
	3-5km SSW	Heard	4	Burst		HMG	15-Sep, 18:55-19:00
	3-5km SW	Heard	2	Burst		HMG	15-Sep, 19:01
						Small-	
	3-5km NW	Heard	4	Shot		arms	15-Sep, 19:06
						Small-	15-Sep,
Horlivka (non-	3-5km NW	Heard	14	Shot		arms	19:10-19:12
government-	3-5km NW	Heard	5	Shot		Small-	15-Sep, 19:23
controlled,	3-3KIII IN W	пеан	3	SHOU		arms Small-	13-sep, 19.23
39km NE of Donetsk)	3-5km NW	Heard	7	Shot		arms	15-Sep, 19:25
Donetsk)							15-Sep,
	3-5km SSW	Heard	10	Burst		HMG	19:26-19:28
	3-5km SSW	Heard	6	Burst		HMG	15-Sep, 19:30
	3-5km NW	Heard	2	Burst		HMG	15-Sep, 19:56
	5-7km W	Heard	1	Explosion	Undetermined	N/K	15-Sep, 21:16
	5-7km W	Heard	1	Explosion	Undetermined	N/K	15-Sep, 21:17
	4-5km SW	Heard	1	Explosion	Undetermined	N/K	15-Sep, 23:50
	4-5km SW	Heard	1	Explosion	Undetermined	N/K	15-Sep, 23:55
	2.21 35	17 ,	7	<b>.</b>		ID 4C	15-Sep,
	2-3km SE	Heard	7	Burst		HMG	21:00-21:05
	4-5km SE	Heard	3	Explosion	Undetermined	N/K	15-Sep, 21:20-21:22
Svitlodarsk	4-5km SE	Heard	2	Explosion	Undetermined	N/K	15-Sep, 21:34
(government-	+ JKIII DL	Trait		Explosion	Chacterinited	1 1/ 11	15-Sep,
controlled,	4-5km SE	Heard	10	Burst		HMG	21:34-21:36
57km NE of Donetsk)							15-Sep,
DOIRUSK)	4-5km SE	Heard	10	Explosion	Undetermined	N/K	22:45-22:50
	4.51 55	77 1	_	F 1 '	TT 1.	NT /T7	15-Sep,
	4-5km SE 4-5km SE	Heard Heard	5 4	Explosion	Undetermined	N/K	23:00-23:04
1		Heard	4	Explosion	Undetermined	N/K	15-Sep,

							23:09-23:11
							15-Sep,
	4-5km S	Heard	5	Explosion	Undetermined	N/K	23:24-23:27
							15-Sep,
	4-5km S	Heard	4	Explosion	Undetermined	N/K	23:35-23:39
	4-5km S	Heard	1	Explosion	Undetermined	N/K	15-Sep, 23:58
	4-5km SE	Heard	25	Burst		HMG	16-Sep, 00:15-00:22
	4-5km S	Heard	5	Explosion	Undetermined	N/K	16-Sep, 00:15-00:20
E edge of	8-10km	Ticara		Explosion	Chacterminea	1 1/12	16-Sep,
Toshkivka	ESE	Heard	215	Explosion	Undetermined	N/K	11:24-11:55
(government- controlled,				1			
60km NW of	8-10km						16-Sep,
Luhansk)	ESE	Heard	100	Bursts		HMG	11:24-11:55
					Undetermined		
3km N of					(assessed as		
Pervomaisk					outside the		
(non-			_		disengagement		16-Sep,
government-	3-5km NE	Heard	3	Explosion	area)	N/K	13:19-13:22
controlled,					Undetermined		
58km W of					(assessed as		
Luhansk)					outside the		
	2.51 NE			F 1 '	disengagement	NT/TZ	16.0 10.50
	3-5km NE	Heard	1	Explosion	area)	N/K	16-Sep, 13:50

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



<sup>&</sup>lt;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).