## Table of ceasefire violations as of 13 November 2017<sup>1</sup>

SMM position	Location of	Observation	Type of	Date/time
Sivilvi position	event	Observation	weapon/ammunition	Date/time
Svitlodarsk	5-7km SW	Heard 5 undetermined explosions	N/K	12 November, 19:05
(government- controlled, 57km north-east of Donetsk)	3 7 Km 5 11	Heard 7 explosions (impacts)		12 November, 19:27-19:35
		Heard 9 explosions (impacts)	Mortar (type N/K)	12 November, 19:48-19:55
		Heard 1 explosion (outgoing)	Recoilless gun (SPG- 9, 73mm)	12 November, 19:57
		Heard 8 explosions (impacts)	Mortar (type N/K)	12 November, 20:00-20:07
		Heard 3 explosions (outgoing)	Recoilless gun (SPG- 9)	12 November, 20:10
	5 71 CCE	Heard 7 explosions (impacts)	Mortar (type N/K)	12 November, 20:15
	5-7km SSE	Heard 14 bursts (5-7 shots each)	HMG	12 November, 20:16-20:35
		Heard 24 bursts (5-7 shots each)	HIVIO	12 November, 21:23-21:58
		Heard 1 undetermined explosion	N/K	12 November, 21:49
		Heard 41 bursts (5-7 shots each)	HMG	12 November, 22:03-22:15
		Heard 34 bursts (5-7 shots each)	HIVIO	12 November, 22:19-22:55
		Heard 4 bursts	HMG	13 November, 11:25
		Heard 1 undetermined explosion		13 November, 12:20
		Heard 1 undetermined explosion	N/K	13 November, 12:30
		Heard 1 undetermined explosion		13 November, 15:17
	7-8km SW	Heard 7 bursts	HMG	13 November, 15:32
		Heard 1 undetermined explosion	N/K	13 November, 13.32
SMM camera in Avdiivka (government- controlled, 17km N of Donetsk)	4-6km ESE	Recorded 1 projectile from E to W	N/K	12 November, 20:16
	0.5-1.5km S	Recorded 1 undetermined explosion	N/K	12 November, 18:45
		Recorded 3 projectiles from E to W		12 November, 19:08
		Recorded 3 undetermined explosions		12 November, 20:02
		Recorded 10 projectiles from E to W		121(0 (0111001), 20102
		Recorded 1 illumination flare in vertical flight  Recorded 3 projectiles from E to W  Recorded 3 undetermined explosions		12 November, 20:03
		Recorded 2 undetermined explosions Recorded 3 projectiles from E to W		12 November, 20:05
		Recorded 5 projectiles from E to W		12 November, 20:06
SMM camera at Donetsk Filtration		Recorded 2 undetermined explosions Recorded 1 projectile from E to W		12 November, 20:07
Station (15km N of		Recorded 3 projectiles from E to W		12 November, 20:09
Donetsk)		Recorded 1 projectile from W to E Recorded 2 undetermined explosions		12 November, 20:16
		Recorded 2 projectiles from W to E		12 November, 20:21
		Recorded 1 undetermined explosion		12 November, 20:39
		Recorded 1 projectile from W to E		12 November, 20:49
		Recorded 3 projectiles from E to W		12 November, 20:53
		Recorded 1 undetermined explosion		12 November, 20:54
		Recorded 1 undetermined explosion		12 November, 20:56
		Recorded 2 projectiles from E to W		12 November, 21:29
		Recorded 4 projectiles from E to W		12 November, 21:33
		Recorded 1 projectile from W to E		13 November, 00:32
		Recorded 1 projectile from W to E		13 November, 02:16
		Recorded 5 projectiles from E to W		13 November, 02:29

<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.

	1	D 110 121 C W. D	T	
		Recorded 3 projectiles from W to E		
		Recorded 1 undetermined explosion		
		Recorded 2 undetermined explosions		13 November, 02:30
		Recorded 1 projectile from W to E		·
		Recorded 1 projectile from W to E		13 November, 02:51
		Recorded 1 projectile from W to E		13 November, 03:05
		Recorded 3 projectiles from W to E		13 November, 03:06
		Recorded 1 projectile from W to E		13 November, 03:07
		Recorded 7 tracers from W to E		12 November, 19:04
		Recorded 1 tracer from E to W		12 November, 19:06
		Recorded 2 tracers from E to W		12 November, 19:23
		Recorded 4 tracers from E to W		12 November, 19:25
		Recorded 12 tracers from E to W		12 November, 19:26
		Recorded 3 tracers from E to W		12 November, 19:27
		Recorded 5 tracers from W to E		12 November, 19:28
		Recorded 10 tracers from W to E		12 November, 19:29
		Recorded 4 tracers from W to E		12 November, 19:30
		Recorded 4 tracers from E to W		12 November, 19:36
		Recorded 1 tracer from E to W		12 November, 19:37
		Recorded 10 tracers from W to E		12 November, 19:40
		Recorded 1 undetermined explosion		12 November, 19:42
		Recorded 4 tracers from E to W		12 November, 19:43
		Recorded 1 tracer from E to W		12 November, 19:45
		Recorded 3 tracers from W to E		,
		Recorded 2 tracers from E to W		12 November, 19:50
		Recorded 4 tracer from E to W		12 November, 19:53
		Recorded 1 projectile from E to W		12 November, 19:57
		Recorded 1 projectile from E to W		12 November, 20:01
		Recorded 1 projectile from E to W		12 November, 20:02
		Recorded 4 projectiles from W to E		12 November, 20:04
		Recorded 6 projectiles from W to E		12 November, 20:05
		Recorded 2 projectiles from W to E		12 November, 20:07
		Recorded 11 projectiles from W to E		
		Recorded 9 projectiles from E to W		12 November, 20:08
SMM camera in		Recorded 1 undetermined explosion		
Shyrokyne (20km E	5-8km N	Recorded 7 projectiles from W to E	N/K	12 November, 20:09
of Mariupol)		Recorded 1 projectile from E to W	- "	12 November, 20:10
1 /		Recorded 3 projectiles from W to E		12 November, 20:11
		Recorded 5 projectiles from E to W		12 November, 20:12
		Recorded 1 projectile from W to E		12 November, 20:15
		Recorded 11 projectiles from W to E		12 November, 20:17-20:18
		Recorded 1 projectile from E to W		12 November, 20:20
		Recorded 1 projectile from W to E		12 November, 20:21
		Recorded 6 projectiles from E to W		12 November, 20:22
		Recorded 7 projectiles from E to W		12 November, 20:23
		Recorded 3 projectiles from E to W		12 November, 20:24
		Recorded 2 projectiles from W to E		12 November, 20:25
		Recorded 5 projectiles from E to W		12 November, 20:26
		Recorded 2 projectiles from W to E		·
		Recorded 19 projectiles from W to E		12 November, 20:27
		Recorded 4 projectiles from W to E		12 November, 20:28
		Recorded 5 projectiles from E to W		,
		Recorded 10 projectiles from W to E		12 November, 20:29
		Recorded 9 projectiles from E to W		12 November, 20:31
		Recorded 2 projectiles from E to W		12 November, 20:33
		Recorded 2 projectiles from W to E		12 November, 20:35
		Recorded 1 projectile from E to W		12 November, 21:00
		Recorded 5 projectiles from E to W		12 November, 21:28
		Recorded 1 illumination flare in		12 November, 21:39
		vertical flight		
		Recorded 1 illumination flare in		12 November, 21:54
		vertical flight		,
		Recorded 1 illumination flare in		12 November, 22:08
		vertical flight	l .	·

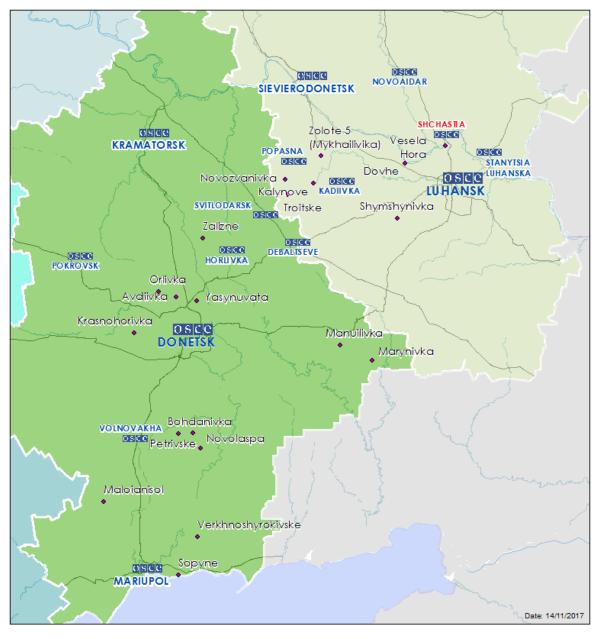
Recorded projectiles from W to E   Recorded proje		I	B 115	T	1037 1 25 15
Recorded   projectile from to to E   Recorded   Re			Recorded 7 projectiles from E to W	4	12 November, 22:17
Recorded   projectile from W to E   Recorded   projectile from to W to E   Recorded   projectile from to W to E   Recorded   projectile from to D W   Recorded   projectile from to D W   Recorded   projectile from to D W   Recorded   projectile from W to E   Recorded   projectile from W to E   Recorded   projectile from W to E   Recorded   Illiminiation flares in vertical flight   Recorded   Illiminiation flares in vertical flight   Recorded   Illiminiation flare from W to E   Recorded   Illiminiation flare in vertical flight   Recorded   Illiminiation flare in vertical flight   Recorded   Illiminiation flare in vertical flight   Recorded   Projectile from W to E   Recorded   Illiminiation flare in vertical flight   Recorded   Recorded				4	
Recorded   projectile from W to E   Recorded   Illumination flare in vertical flight   Recorded   Illumination flare in vertical flight   Recorded   Illumination flare in vertical flight   Recorded   Projectile from W to E   Recorded   Illumination flare in vertical flight   Recorded   Projectile from W to E   Reco			1 3	1	
Recorded 1 projectic from E to W   Recorded 1 projectic from E to W   Recorded 1 projectic from E to W   Recorded 1 projectic from W to E   Recorded 1 fillumination flare in vertical flight   Recorded 2 fillumination flare i				1	,
Recurded 1 projectic from W to E   Recorded 1 illumination flare in vertical flight   Recorded 2 projectiles from W to E (assessed as inside the disengagement area)   Recorded 2 tracers from W to E (assessed as inside the disengagement area)   Recorded 2 tracers from W to E (assessed as outside the disengagement area)   Recorded 2 tracers from W to E (assessed as outside the disengagement area)   Recorded 2 tracers from W to E (assessed as outside the disengagement area)   Recorded 2 tracers from W to E (assessed as outside the disengagement area)   Recorded 2 tracers from W to E (assessed as outside the disengagement area)   Recorded 2 tracers from W to E (assessed as outside the disengagement area)   Recorded 2 tracers from W to E (assessed as outside the disengagement area)   Recorded 2 tracers from W to E (assessed as outside the disengagement area)   Recorded 2 tracers from W to E (assessed as outside the disengagement area)   Recorded 2 tracers from W to E (assessed as outside the disengagement area)   Recorded 2 tracers from W to E (assessed as outside the disengagement area)   Recorded 2 tracers from W to E (assessed as outside the disengagement area)   Recorded 2 tracers from W to E (assessed as outside the disengagement area)   Recorded 2 tracers from W to E (assessed as outside the disengagement ar				1	
Recorded 1 projectile from W to E   Recorded 1 fillumination flare in vertical flight   Recorded 2 fillumination flare in vertical flight   Recorded 1 fillumination flare from W to E   Recorded 1 fillumination flare from W to E   Recorded 1 fillumination flare from W to E   Recorded 1 fillumination flare in vertical flight   Recorded 2 fillumination flare in vertical flight   Recorded 2 fillumination flare in vertical flight   Recorded 2 fillumination flare in vertical flight   Recorded 3 fillumination flare in vertical flight   Recorded 2 fillumination flare in vertical flight   Recorded 3 fillumination flare in vertical flight   Recorded 3 fillumination flare in vertical flight   Recorded 4 fillumination flare in vertical flight   Recorded 5 fillumination flare in vertical flight   Recorded 5 fillumination flare in vertical flight   Recorded 5 fillumination flare in vertical flight   Recorded 6 fillumination flare in vertical flight   Recorded 6 fillumination flare in vertical flight   Recorded 6 fillumination flare in vertical flight   Recorded 7 fillumination flare in vertical flight   R				1	
Recorded 1 illumination flare in vertical flight   Recorded 1 illumination flare from W to E   Recorded 1 illumination flare in vertical flight   Recorded 2 projectiles from W to E   Recorded 1 illumination flare in vertical flight   Recorded 2 projectiles from W to E   Recorded 1 illumination flare in one vertical flight   Recorded 2 projectiles from W to E   Recorded 1 illumination flare in one vertical flight   Recorded 2 projectiles from W to E   Recorded 1 illumination flare in one vertical flight   Recorded 2 projectiles from W to E   Recorded 1 illumination flare in one vertical flight   Recorded 2 projectiles from W to E				]	
November				]	13 November, 00:42
Recorded 1 illumination flares in vertical flight   Recorded 1 illumination flare from W to E   Recorded 1 illumination flare from E to W   13 November, 02:20   13 November, 19:34   11 November, 02:30   12 Novem					13 November, 00:50
Recorded   Illumination flare from W to E   Recorded   Illumination flare from W to E   Recorded   Illumination flare in vertical flight   Recorded   Illumination flare from W to E   Recorded   Illumination flare from E to W   13 November, 02:20   13 November, 02:20   13 November, 02:20   13 November, 02:20   13 November, 17:53   13 November, 18:10   13 November, 19:34   13 November, 19:34   14 November, 19:35   14 November			Recorded 2 illumination flares in		13 November, 00:53
Recorded 1 projectile from W to E   Recorded 1 illumination flare in vertical flight   Recorded 1 illumination flare from W to E   (assessed as inside the disengagement area)   Ill November, 19:34			Recorded 1 illumination flare from W	1	13 November, 02:19
Recorded   Percental flight   Percental f					13 November, 02:20
Vertical High   Recorded 2 Projectiles from W to E   Recorded 2 Projectiles from W to E   Recorded 1 Illumination flare from E   Recorded 2 Illumination flare from E   Recorded 1 Illumination flare from E   Recorded 2 Illumination flare from E   Recorded 1 Illumination flare from E   Recorded 1 Illumination flare from E   Recorded 2 Illumination flare from E   Recorded 1 Illumination flare from E   Reco				1	,
Recorded   Iulumination flare from E   13 November, 18:10					·
SMM camera in   Petrivske ("DPR" controlled, 43km S of Donetsk city centre)   1-3km SW   1-3km SW   Recorded 2 undetermined explosions (assessed as inside the disengagement area)   1-3km SW   Recorded 2 tracers from W to E (assessed as inside the disengagement area)   1-3km SW   Recorded 2 undetermined explosions (assessed as outside the disengagement area)   1-3km W   Recorded 1 undetermined explosion (assessed as outside the disengagement area)   1-3km W   Recorded 1 undetermined explosion (assessed as outside the disengagement area)   1-3km W   Recorded 1 undetermined explosion (assessed as outside the disengagement area)   1-3km W   Recorded 1 undetermined explosion (assessed as outside the disengagement area)   1-3km W   Recorded 1 undetermined explosion (assessed as outside the disengagement area)   1-3km W   Reard 2 undetermined explosion (assessed as outside the disengagement area)   1-3km W   Reard 2 shots   HMG   1-3km W   Heard 2 shots   HMG   1-3km W   Heard 2 bis S   Small arms   1-3km W   1-3km W   Heard 2 bis S   Small arms   1-3km W   1-3km W   Heard 2 bis S   Small arms   1-3km W   1-3km W   Heard 1 undetermined explosion (assessed as inside the disengagement area)   1-3km W   1-3km W   Heard 1 undetermined explosion (assessed as inside the disengagement area)   1-3km W   Heard 1 undetermined explosion (assessed as inside the disengagement area   1-3km W   Heard 1 undetermined explosion (assessed as inside the disengagement area   1-3km W   Heard 2 undetermined explosion (assessed as outside the disengagement area   1-3km W   Heard 2 undetermined explosion (assessed as outside the disengagement area   1-3km W   Heard 2 undetermined explosion (assessed as outside the disengagement area   1-3km W   Heard 1 undetermined explosion (assessed as outside the disengagement area   1-3km W   Heard 2 undetermined explosion (assessed as outside the disengagement area   1-3km W   1-3km W				]	13 November, 17:53
SMM camera in   Petrivske ("DPR"- controlled, 43km S of Donetsk city centrer)   1-3km SW   1-3km SW of Donetsk city centrer)   3-5km S   Recorded 2 undetermined explosions (assessed as inside the disengagement area)   3-5km S   Recorded 2 undetermined explosions (assessed as inside the disengagement area)   11 November, 19:35   11 November, 20:18					13 November 18:10
Petriske ("DPR" controlled, 43km S of Donetsk city centre)					·
1-3km SW   Recorded 2 undetermined explosions (assessed as inside the disengagement area)   11 November, 19:35   11 November, 20:18   11 November, 20:42   12 November, 20:42   12 November, 20:42   13 November, 20:44   13 November, 20:44   13 November, 10:08   13 November, 10:05   13 November, 10:05   13 November, 10:05   13 November, 11:22   13 November, 11:24   13 November, 11:26   11:45   13 November, 12:20   13 November, 12:40   14 November,	Petrivske ("DPR"-		(assessed as inside the disengagement		11 November, 19:34
Area	of Donetsk city	1-3km SW	Recorded 2 undetermined explosions	1	11 November, 19:35
3-5km S   Recorded 2 tracers from W to E (assessed as outside the dissengagement area)   11 November, 20:18	contro)				
Casessed as outside the disengagement area)   11 November, 23:42   13 November, 23:42   13 November, 23:41   13 November, 23:42   13 November, 23:43   13		3-5km S		N/K	11 November 20:18
Railway station in Yasynuvata ("DPR"-controlled, 16km NE of Donetsk)   Rail Way Mark   Heard 2 undetermined explosions   Heard 2 bursts   Hard 2 bursts   Mark   Heard 2 bursts   Small arms   Heard 4 bursts   Hard 6 undetermined explosions   Hard 2 bursts   Small arms   Hard 6 undetermined explosion   N/K   13 November, 10:32-10:50		JUNIO			1111010111001, 20.10
Railway station in Yasynuvata ("DPR" controlled, 16km NE of Donetsk)			` ·		
Railway station in   Asynuvata ("DPR"-controlled, 16km NE of Donetsk)   1-3km W   Heard 2 shots   Heard 8 undetermined explosions   Heard 8 undetermined explosions   Heard 4 shots   Heard 4 shots   Heard 4 shots   Heard 6 undetermined explosion   N/K   13 November, 10:32-10:50   Heard 6 bursts   Small arms   Heard 1 undetermined explosion   N/K   Heard 2 undetermined explosion   N/K   Heard 2 undetermined explosion   N/K   Heard 2 undetermined explosions   N/K   Heard 2 bursts   Heard 2 bursts   Heard 2 bursts   Heard 1 undetermined explosion   N/K   Heard 1 undetermined explosion   N/K   Heard 2 bursts   Heard 1 undetermined explosion   N/K   Heard 1 undetermined explosion   N/K   Heard 1 undetermined explosion   N/K   Heard 2 bursts   Heard 2 bursts   Heard 2 bursts   Heard 3 bursts   Heard 40 shots   Heard 40 shots   Heard 40 shots   Heard 47 shots   Heard 42 bursts   Heard 42 bursts		3-5km W			11 November. 23:42
Railway station in Yasynuvata ("DPR" controlled, 16th NE of Donetsk)					,
Railway station in Yasynuvata ("DPR" controlled, 16th NE of Donetsk)			disengagement area)	<u> </u>	
Yasynuvata ("DPR"-controlled, 16km NE of Donetsk)         3-5km W         Heard 2 shots Heard 2 shots Small arms         HMG         13 November, 09:54-10:08           1 - Jakm WSW         1-3km WSW         Heard 1 undetermined explosions Heard 2 bursts         N/K         13 November, 10:32-10:50           2 - 4km SW         Heard 1 undetermined explosions Heard 2 bursts         Small arms         13 November, 10:32-10:50           2 - 4km SW         Heard 4 bursts         Small arms         13 November, 11:26-11:45           4 - 4km WSW         Heard 6 undetermined explosions Heard 6 undetermined explosions         N/K         13 November, 11:36-11:45           5 W edge of Yasynuvata ("DPR"-controlled, 16km NE of Donetsk)         Heard 2 undetermined explosions         N/K         13 November, 13:12-13:22           5 W edge of Yasynuvata ("DPR"-controlled, 16km NE of Donetsk)         Heard 2 undetermined explosions         N/K         13 November, 13:48-14:06           1 - 3km W         Heard 2 bursts         Heard 1 undetermined explosion N/K         13 November, 13:48-14:06           1 - 3km W         Heard 2 bursts         Small arms         13 November, 13:48-14:06           1 - 3km W         Heard 1 undetermined explosion N/K         13 November, 14:05-14:07           1 - 3km W         Heard 2 bursts         Small arms         13 November, 14:05-14:07           1 - 3km W         Heard 1 undet				N/K	
Heard 2 bursts   Heard 2 bursts   Heard 2 bursts   Small arms	Yasynuvata ("DPR"-	2 51cm W			12 November 00:54 10:00
Heard 2 bursts   Small arms   13 November, 10:15		3-3KIII W	Heard 2 shots	Small arms	15 November, 09:54-10:08
1-3km W	of Donetsk)		Heard 2 bursts	Silian arilis	
1-3km W		1-3km WSW	Heard 1 undetermined explosion	N/V	13 November, 10:15
Figure   F		1 21 777	_	IN/K	
2-4km SW		1-3km W		Small arms	13 November, 10:32-10:50
Heard 4 bursts   Heard 6 undetermined explosions   Heard 1 undetermined explosion   Heard 6 bursts   Small arms   13 November, 11:36-11:45		2-4km SW			13 November, 11:22
Part   Heard 6 undetermined explosions   N/K   Heard 1 undetermined explosion   Heard 6 bursts   Small arms   13 November, 12:05-12:20		= 11111 5 11			101.0.011.011, 11.02
Heard 1 undetermined explosion   Heard 6 bursts   Small arms   13 November, 12:05-12:20				Sinan ains	13 November, 11:36-11:45
Heard 6 bursts   Small arms   13 November, 12:05-12:20		2-4km W		N/K	
Heard 6 bursts   Small arms   13 November, 12:40				C11	13 November, 12:05-12:20
2-4km WSW		2 41 0337		Smail arms	· ·
2-4km WNW   Heard 2 undetermined explosions   13 November, 13:12-13:22				1	15 November, 12:40
SW edge of Yasynuvata ("DPR"-controlled, 16km NE of Donetsk)  1-3km W  Heard 2 undetermined explosions N/K Heard 2 bursts HMG Heard 1 undetermined explosion N/K Heard 20 bursts Heard 40 shots Heard 1 undetermined explosion N/K Heard 47 shots Heard 47 shots Heard 42 bursts  Swedge of Avdiivka (government-  SW edge of Heard 3 undetermined explosions Heard 3 bursts  Small arms  13 November, 14:05-14:07  13 November, 14:26-15:00  13 November, 10:13  13 November, 10:27-10:55			-	N/K	13 November, 13:12-13:22
Yasynuvata ("DPR"- controlled, 16km NE of Donetsk)  Heard 2 bursts Heard 1 undetermined explosion Heard 20 bursts Heard 20 bursts Heard 20 bursts Heard 1 undetermined explosion N/K Heard 20 bursts Heard 40 shots Heard 41 undetermined explosion Heard 47 shots Heard 42 bursts  Swedge of Avdiivka (government-  Heard 3 undetermined explosions Heard 3 bursts  Small arms  13 November, 14:05-14:07  Small arms 13 November, 14:08-14:12  13 November, 14:26-15:00  13 November, 14:26-15:00  13 November, 10:13  13 November, 14:26-15:00		2-4km WNW		1	,
controlled, 16km NE of Donetsk)  Heard 10 shots Small arms Heard 20 bursts Heard 1 undetermined explosion Heard 20 bursts Heard 1 undetermined explosion Heard 20 bursts Heard 40 shots Heard 47 shots Heard 42 bursts  Swedge of Avdiivka (government-  Heard 3 undetermined explosions Heard 3 bursts Heard 3 bursts Small arms  13 November, 13:48-14:06  N/K  13 November, 14:05-14:07  N/K  13 November, 14:08-14:12  13 November, 14:08-14:12  13 November, 14:08-14:12  13 November, 14:08-14:12  13 November, 14:26-15:00  13 November, 14:26-15:00  13 November, 10:13  13 November, 10:27-10:55			i		
of Donetsk)  Heard 1 undetermined explosion N/K  Heard 20 bursts  Heard 1 undetermined explosion N/K  Heard 20 bursts  Heard 1 undetermined explosion N/K  Heard 20 bursts  Heard 40 shots  Heard 47 shots  Heard 42 bursts  Swedge of Avdiivka  (government-  Heard 3 undetermined explosion  Heard 3 bursts  Heard 3 undetermined explosion  Heard 3 bursts  Small arms  13 November, 14:08-14:12  13 November, 14:26-15:00  13 November, 14:26-15:00  13 November, 10:13					
1-3km W					13 November, 13:48-14:06
Heard uncountable overlapping shots Heard 1 undetermined explosion Heard 20 bursts Heard 40 shots Heard 47 shots Heard 42 bursts  Swedge of Avdiivka (government-  Heard 3 undetermined explosions Heard 3 bursts  Heard 3 undetermined explosions Heard 3 bursts  Small arms  13 November, 14:05-14:07  N/K  13 November, 14:08-14:12  13 November, 14:26-15:00  13 November, 10:13  13 November, 10:13	of Donetsk)			N/K	
1-3km W   Heard uncountable overlapping shots   13 November, 14:05-14:07				Small arms	
Heard 1 undetermined explosion N/K  Heard 20 bursts Heard 40 shots Heard 1 undetermined explosion N/K  Heard 47 shots Heard 42 bursts  Sw edge of Avdiivka (government-  Heard 3 undetermined explosions Heard 3 bursts  N/K  13 November, 14:08-14:12  Small arms 13 November, 14:26-15:00  N/K  13 November, 10:13  13 November, 10:13  13 November, 10:27-10:55		1-3km W			13 November, 14:05-14:07
Heard 40 shots Heard 1 undetermined explosion Heard 47 shots Heard 42 bursts  SW edge of Avdiivka (government-  Heard 3 bursts  Heard 3 bursts  Small arms  N/K  13 November, 14:08-14:12				N/K	
Heard 40 snots Heard 1 undetermined explosion N/K Heard 47 shots Heard 42 bursts  SW edge of Avdiivka (government-  Heard 3 bursts  N/K  13 November, 14:26-15:00  13 November, 10:13  N/K  13 November, 10:13  13 November, 10:27-10:55				Small arms	13 November, 14:08-14:12
Heard 47 shots Heard 42 bursts  SW edge of Avdiivka (government-  Heard 3 undetermined explosions Heard 3 bursts  Small arms  13 November, 14:26-15:00  13 November, 10:13  N/K  13 November, 10:13  13 November, 10:27-10:55					
Heard 42 bursts  SW edge of Avdiivka  (government-  Heard 3 undetermined explosions Heard 3 bursts  Small arms  13 November, 14:26-15:00  N/K  13 November, 10:13  N/K  13 November, 10:13  N/K  13 November, 10:27-10:55			*	N/K	
SW edge of Avdiivka (government- Pearl 3 bursts   Heard 42 bursts   Heard 1 undetermined explosion   N/K   13 November, 10:13   Heard 3 undetermined explosions   Heard 3 bursts   Small arms   13 November, 10:27-10:55				Small arms	13 November, 14:26-15:00
Avdiivka (government-	CANA 1 C				· ·
Government- Heard 3 undetermined explosions   13 November, 10:27-10:55		2 21 25		N/K	13 November, 10:13
		2-3km SE			1231
Controlled, 17km N 1-3km S Heard 6 undetermined explosions N/K		1.01. ~			13 November, 10:27-10:55
	controlled, 1/km N	1-3km S	Heard 6 undetermined explosions	N/K	

of Donetsk)		Heard 12 shots	IFV (BMP-2) cannon (30mm)	
	5-6km SW	Heard 7 undetermined explosions	(00)	1
	1-2km S	Heard 1 undetermined explosion	NUTZ	13 November, 11:11
	2-3km SE	Heard 1 undetermined explosion	N/K	13 November, 11:26
	3-5km SW	Heard 1 undetermined explosion		,
		Heard 16 bursts	HMG	13 November, 12:15-12:40
		Heard 1 undetermined explosion	N/K	Í
		Heard 11 bursts	HMG	
		Heard 5 undetermined explosions	N/K	13 November, 12:53-13:15
		Heard 17 bursts	Small arms	
		Heard 5 bursts	HMG	1
	2-3km SE	Heard 14 shots	Small arms	13 November, 13:57-14:22
		Heard 1 undetermined explosion	N/K	1
		Heard 15 shots		
		Heard 8 bursts	Small arms	
		Heard 18 bursts	HMG	13 November, 14:39-15:00
		Heard 1 undetermined explosion	N/K	†
Donetsk central			TV/IX	
railway station ("DPR"-controlled,	3-4km NW	Heard 5 bursts	HMG	
6km NW of Donetsk		Heard 13 shots	Small arms	13 November, 09:50-10:10
city centre)	2-5km N	Heard 1 undetermined explosion	N/K	
Oktiabr mine SMM camera location (9km NW of	1km SE	Heard 2 bursts	Small arms	13 November, 08:17
Donetsk city centre)	1.5km SE	Heard 1 undetermined explosion	N/K	13 November, 10:15
1km NNW of Pyshchevyk		Heard 3 undetermined explosions (possible overlapping with CFV		13 November, 10:15-10:20
(government- controlled, 25km NE of Mariupol)	N/K SSE	report from Orlivske)  Heard 2 undetermined explosions (possible overlapping with CFV report from Orlivske)	- N/K	13 November, 10:25
Orlivske (government- controlled, 23km NE of Mariupol)	N/K SSE	Heard 5 undetermined explosions (possible overlapping with CFV report from 1km NNW of Pyshchevyk)	N/K	13 November, 10:15-10:25
of Mariupor)	N/K N	Heard 1 undetermined explosion		
Lebedynske	2-3km SSW	Heard 2 undetermined explosions		13 November, 11:02
(government	2-3KIII 33 W	Heard 2 undetermined explosions	N/K	13 November, 11.02
controlled, 15km NE	3-5km ENE	Heard 1 undetermined explosion	IN/IX	
of Mariupol)	1.5-2km E	Heard 1 burst	Small arms	12.31
or warupor)				13 November, 11:57-12:00
	N/K ENE	Heard 2 undetermined explosions	N/K	
2.5km SSE of	N/K ESE	Heard 6 bursts		13 November, 12:00
Lomakyne (government- controlled, 15km NE of Mariupol)	N/K E	Heard uncountable bursts and shots	Small arms	13 November, 12:25-12:46
		Heard 13 undetermined explosions	N/K	13 110 verilloci, 12.23-12.40
Novolaspa ("DPR"-	N/K WSW	Heard 15 shots	Small arms	
controlled, 50km S		Heard 3 undetermined explosions	N/K	13 November, 11:34-11:46
of Donetsk)		Heard 2 bursts	- Small arms	13 November, 11.34-11.40
	N/K SSW	Heard 1 shot	Sman arms	
	30m WNW	Heard 1 explosion (outgoing)	AGL	13 November, 12:06
Horlivka ("DPR"- controlled, 39km NE of Donetsk)	9-10km NW	Heard 4 undetermined explosions	AGL	13 November, 10:10
or Donousk)	4-5kmNNW	Heard 5 shots	- Small arms	13 November, 11:10
	1.5-2km W	Heard 20 shots		13 November, 13:52
SMM camera in Zolote (government-controlled, 60km	N/K	Recorded 1 projectile (trajectory N/K)	N/K	13 November, 17:38
NW of Luhansk)	101	H 117 1	NI/IZ	10 N 1 10 15 10 21
Kadiivka (formerly	10km W	Heard 17 undetermined explosions	N/K	12 November, 19:15-19:21

Stakhanov, "LPR"- controlled, 50km W of Luhansk)	8-10km W	Heard 3 bursts	HMG	
E edge of Stanytsia Luhanska (government- controlled, 16km NE of Luhansk)	4-5km S	Heard 22 bursts (unable to assess whether inside or outside the disengagement area)	HMG	12 November, 19:30-19:43
		Heard 11 shots (unable to assess whether inside or outside the disengagement area)	AGL	
	3-4km SSW	Heard 3 bursts (unable to assess whether inside or outside the disengagement area)	HMG	
	J Han SS W	Heard 14 shots (unable to assess whether inside or outside the disengagement area)	Small arms	
	4-5km S	Heard 1 undetermined explosion (unable to assess whether inside or outside the disengagement area)	N/K	12 November, 19:50
Kalynove ("LPR"- controlled, 60km W of Luhansk)	4-6km SW	Heard 8 bursts (assessed as outside the disengagement area)	N/K	13 November, 08:58-09:06
	3km S	Heard 56 undetermined explosions (assessed as a live-fire exercise)	N/K	
Shymshynivka ("LPR"-controlled,	SKIII D	Heard 12 bursts (assessed as a live- fire exercise)	HMG	13 November,09:05-09:20
27km SW of Luhansk)	2km W	Heard 9 undetermined explosions (assessed as a live-fire exercise)	N/K	15 110 vember, 07.05-07.20
		Heard 4 bursts (assessed as a live-fire exercise)	HMG	
S edge of Kalynove	3km W	Heard 12 shots		13 November, 09:40-09:44
("LPR"-controlled,	2-4km WSW	Heard 14 shots	N/K	13 November, 09:56-10:18
60km W of Luhansk)	3-5km NW	Heard 1 shot	4	
Vesela Hora ("LPR"-	4-6km WSW 5km WSW	Heard 13 undetermined explosions Heard 38 undetermined explosions		13 November, 10:00-10:27
controlled, 16km N of Luhansk)	5km WSW	Heard 4 undetermined explosions	Mortar (type N/K)	13 November, 11:00-11:02
Slovianoserbsk		Heard 1 undetermined explosion		13 November, 10:23
("LPR"-controlled, 28km NW of Luhansk)	N/K	Heard 1 undetermined explosion	N/K	13 November, 10:25
Zolote-5 ("LPR"- controlled, 61km NW of Luhansk, outside DA)	5-8km NNW	Heard 3 undetermined explosions (assessed as outside the disengagement area)	N/K	13 November, 10:53-10:54
Zolote (government-controlled, 60km W	2-3km NW	Heard 4 explosions (outgoing) (assessed as outside the disengagement area)	Mortar (type N/K)	13 November, 10:55-11:00
of Luhansk)	2-3km SE	Heard 2 explosions (outgoing) (assessed as outside the disengagement area)	Mortal (type 10/10)	15 115 1611501, 10.55 11.00
Zolote 3 (government- controlled, 60km W of Luhansk)		Heard 25 undetermined explosions (assessed as outside the disengagement area)	IFV (BMP)	
	6-8km SE	Heard 12 explosions (outgoing) (assessed as outside the disengagement area)  Heard 3 explosions (impacts) (assessed as outside the disengagement area)	Mortar (type N/K)	13 November,11:52-12:30
Dovhe ("LPR"-	3km E	Heard 5 undetermined explosions	N/K	13 November, 11:10-11:20
controlled, 22km NW of Luhansk)	3km W	Heard 3 bursts	HMG	13 November, 11:20
3km NW of	5-7km WSW	Heard 5 undetermined explosions	N/K 13 Novemb	
Almazna ("LPR"- controlled, 55km W	5-7km WSW	Heard 1 burst Heard 4 shots		13 November, 11:19-11:30

of Luhansk)	5-7km NW	Heard 14 bursts (assessed as outside the disengagement area)		
	8-10km WSW	Heard 1undetermined explosion		13 November, 13:22-14:00
	5-7km WNW	Heard 1undetermined explosion		
	5-7km W	Heard 1 burst		
21 CW CA1	8-10km, SW	Heard 19 undetermined explosions		
3km SW of Almazna	5-7km WNW	Heard 8 undetermined explosions	N/K	12 Names - 11.51 12.01
("LPR"-controlled, 55km W of Luhansk)	8-10km, W	Heard 47 bursts	N/K	13 November,11:51-13:01
33kili w of Luliansk)	2-4km E	Heard 84 shots		
3km NW of	5-7km NW	Heard 14 bursts (assessed as outside the disengagement area)		
Almazna ("LPR"- controlled, 55km W	8-10km WSW	Heard 1undetermined explosion	N/K	13 November, 13:22-14:00
of Luhansk)	5-7km WNW	Heard 1undetermined explosion	1	
	5-7km W	Heard 1 burst		
2km ESE of Toshkivka (government- controlled, 60km NW of Luhansk)	6-8km SE	Heard 1 explosion (impact) (assessed as outside the disengagement area)	Artillery (type N/K)	13 November, 13:30
E edge of Valuiske (government- controlled, 20km NE of Luhansk)	7km SSW	Heard 1 undetermined explosion (assessed as outside the disengagement area)	N/K	13 November, 13:51
4km WSW of Popasna (government- controlled, 69km west of Luhansk)	6-8km S	Heard 1 undetermined explosion	N/K	13 November, 15:09

## 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 base from which SMM staff has temporarily relocated since 27 September 2016 based on recommendations of security experts from participating States.)