Table of ceasefire violations as of 13 November 2016¹

SMM position	Location of event	Observation	Type of weapon/ammunition	Date/time
Debaltseve ("DPR"-controlled, 58km NE	8-10km NW	Heard 5 undetermined explosions	N/K	11 November, 16:00- 16:15
of Donetsk)		Heard 74 undetermined explosions		11 November, 20:22- 20:52
		Heard 76 undetermined explosions	N/K	11 November, 20:55- 21:30
	5-8km WNW	Heard 20 undetermined explosions	IV/K	11 November, 21:47- 22:00
		Heard 59 undetermined explosions		12 November, 02:43- 03:20
Horlivka ("DPR"-controlled,	7-8km NW	Heard 9 undetermined explosions	N/K	11 November, 18:47- 18:48
39km NE of	8-10km SSW	Heard 1 undetermined explosion		11 November, 18:55
Donetsk)	3-4km W	Heard an intense exchange of fire	HMG and small arms	11 November, 19:00 -
	4-5km W	Hear 3 explosions (impacts)	Mortar (82mm)	19:02
	4-5km SSW	Heard 2 bursts	Small arms	11 November, 19:07
	7-8km W	Heard 3 undetermined explosions		11 November, 19:14
	8-10km SSW	Heard 1 undetermined explosion	NI/IZ	11 November, 19:16
	7-8km W	Heard 1 undetermined explosion	N/K	11 November, 19:17
	8-10km SSW	Heard 2 undetermined explosions		11 November, 19:31
	3-4km W	Heard 22 bursts (2-5 shots each)		111101011001, 19.91
	3-4KIII W	Heard at least 190 shots	HMG	
	4-5km W	Heard 42 shots	IVF (BMP-2) cannon (30mm)	11 November, 19:32 - 19:36
	6-7km W	Heard 3 undetermined explosions	N/K	
	3-4km W	Heard 1 burst (10 shots)	Small arms	11 November, 19:37
	4-5km W	Heard 12 bursts (2-3 shots each)	IVF (BMP-2) cannon (30mm)	11 November, 19:38 - 19:39
	3-4km W	Heard 14 bursts (3-10 shots each)	Small arms	11 November, 19:40
	5-6km W	Heard 4 bursts (2-3 shots each)	IVF (BMP-2) cannon (30mm)	11 November, 19:44
	7-8km WNW	Heard 5 undetermined explosions	,	11 November, 19:46
	7-8km SW	Heard 2 undetermined explosions		11 November, 19:58
		•	N/K	11 November, 19:59-
	7-8km NW	Heard 3 undetermined explosions		20:00
		Heard 7 explosions (outgoing)	IVF (BMP-1) cannon (73mm)	
	4 Floor WCW	Heard 3 bursts	IVF (BMP-2) cannon (30mm)	11 November, 20:05
	4-5km WSW	Heard 2 bursts	Small arms	
		Heard 10 shots	HMG	
		Heard 7 bursts		11 November 20:07
		Heard 7 shots	Small arms	11 November, 20:07
		Heard 9 shots		
		Heard 3 shots	AGL	1
		Heard 10 undetermined explosions	N/K	†
	4-5km W	Heard at least 42 bursts	Small arms	11 November, 20:08-
	r JKIII W	Heard at least 45 bursts	Anti-aircraft gun (ZU-	20:11
			2, 23mm)	-
		Heard 5 explosions (outgoing)	IVF (BMP-1) cannon	

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¹ 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.

		(73mm)	
7-8km NW	Heard 2 undetermined explosions		11 November, 20:17
8-9km W	Heard 1 undetermined explosion	N/K	11 November, 20:18
5-6km NNW	Heard 8 bursts	HMG	11 November, 20:22- 20:24
	Hear 1 explosion (impact)	Mortar (82mm)	
5-6km W	Heard 6 explosions (outgoing)	IVF (BMP-1) cannon (73mm)	11 November, 20:27- 20:32
	Heard 41 bursts	Small arms	
	Heard 18 undetermined explosions	N/K	
	Heard at least 12 bursts	IVF (BMP-2) cannon (30mm)	11 November, 20:34- 20:38
4-5km W	Heard at least 12 bursts	Anti-aircraft gun (ZU-2, 23mm)	
	Heard 9 bursts	Small arms	11 November, 20:39
	Heard 2 explosions (outgoing)	IVF (BMP-1) cannon (73mm)	11 November, 20:40
4-5km WNW	Heard 1 undetermined explosion		11 November, 20:41
	Heard 10 undetermined explosions	N/K	11 November, 20:42- 20:43
5-6km W	Heard 5 bursts	Small arms	
	Heard 4 bursts	Anti-aircraft gun (ZU-2, 23mm)	11 November, 20:45-
	Heard 12 undetermined explosions	N/K	20:50
4-5km W	Heard 4 bursts	IVF (BMP-2) cannon (30mm)	
5-7km NW	Heard 1 undetermined explosion	→ N/K	11 November, 20:52
7-8km W	Heard 1 undetermined explosion		11 November, 20:54
3-4km WNW	Heard 13 bursts (3-5 shots each)	Small arms	11 November, 20:59
5-6km NW	Heard 2 explosions (outgoing)	N/K	11 November, 21:11
3-5km W	Heard 19 bursts	Small arms	11 November, 21:13-
	Heard 11 bursts	HMG	21:14
5-6km NW	Heard 2 undetermined explosions	N/K	11 November, 21:15 11 November, 21:24
	Heard 2 explosions (outgoing) Heard 13 bursts	Small arms	
3-5km NW	Heard 11 bursts	HMG	11 November, 21:25- 21:27
7-8km NW	Heard 4 undetermined explosions	N/K	11 November, 21:28
	Heard 10 bursts (3-5 shots each)	Small arms	,
4-5km NW	Heard 2 bursts (2-3 shots each)	HMG	11 November, 21:29-
	Heard 4 undetermined explosions		21:31
8-9km NW	Heard 14 undetermined explosions	N/K	11 November, 21:33- 21:42
5-6km NW	Heard 4 bursts	HMG	11 November, 21:43
8-9km NW	Heard 7 undetermined explosions	N/K	11 November, 21:43-
5-6km NW	Heard 7 bursts	HMG	21:47
4-5km NW	Heard 1 burst		11 November, 21:50
5-6km NW	Heard 3 undetermined explosions	N/K	
4-5km NW	Heard 9 undetermined explosions		11 November, 21:51-
	Heard 7 bursts	HMG	21:57
8-9km NNW	Heard 1 undetermined explosion Heard 1 burst (4 shots)	N/K HMG	11 November, 21:58
4-5km NNW	Heard 11 bursts (3-5 shots each)	Small arms	11 November, 22:06- 22:11
8-9km W	Heard 19 undetermined explosions	N/K	11 November, 22:17- 22:31
5-6km W	Heard 1 burst	Anti-aircraft gun (ZU-2, 23mm)	11 November, 22:23
8-9km W	Heard 5 undetermined explosions	N/K	11 November, 22:34- 22:35
5-6km W	Heard 1 burst	Anti-aircraft gun (ZU-2, 23mm)	11 November, 22:36- 22:38
8-9km W	Heard 6 undetermined explosions	N/K	

		Heard 3 bursts	HMG	
	5-6km W	Heard 2 bursts	IVF (BMP-2) cannon (30mm)	11 November, 22:40
	8-9km W	Heard 2 undetermined explosions	N/K	11 November, 22:42
	5-6km W	Heard 44 bursts	Anti-aircraft gun (ZU-2, 23mm)	11 November, 23:08- 23:30
	6-7km W	Heard 2 explosions (impacts)	N/K	11 November, 23:31
	5-6km WNW	Heard 7 bursts	IVF (BMP-2) cannon (30mm)	11 November, 23:32- 23:33
	5-6km W	Heard 3 bursts	Anti-aircraft gun (ZU-2, 23mm)	11 November, 23:35
	5-6km WNW	Heard 2 undetermined explosions	N/K	11 November, 23:36
		Heard 3 explosions (outgoing)	IVF (BMP-1) cannon (73mm)	11 November, 23:38
	4-5km WNW	Heard 1 burst	HMG	
		Heard 10 bursts	Anti-aircraft gun (ZU-2, 23mm)	11 November, 23:40- 23:43
	5-6km WNW	Heard 2 undetermined explosions	N/K	11 November, 23:44
		Heard 1 explosion (outgoing)	IVF (BMP-1) cannon (73mm)	11 November, 23:47
	5-6km W	Heard 2 undetermined explosions	N/K	11 November, 23:57- 00:08
	5-6km WNW	Heard 1 undetermined explosion		11 November, 00:10
Park Inn Hotel		Heard 134 undetermined explosions		11 November, 19:56-
("DPR"-controlled, Donetsk)	5-10km NW	Heard 220 undetermined explosions	N/K	22:30 11 November, 22:32- 23:42
		Heard 53 undetermined explosions		12 November, 00:12- 01:42
SMM camera in		Recorded 1 shot in flight from ESE to		11 November, 20:08
Shyrokyne (20km E		WNW	N/K	·
of Mariupol)		Recorded 6 burst of direct fire (3 shots each) fired from ESE to WNW		11 November, 20:10
		Recorded 1 shot in flight from ESE		11 November, 20:11
		to WNW Recorded 5 shots in flight from ESE to WNW		11 November, 20:34
		Recorded 6 indirect rocket assisted projectiles in flight from ESE to		11 November, 20:41
		WNW Recorded 2 shots in flight from ESE to WNW		11 November, 20:49
		Recorded 2 shots in flight from ESE to WNW		11 November, 20:50
		Recorded 2 shots in flight from ESE to WNW		11 November, 20:51
		Recorded 1 shot in flight from ESE to WNW		11 November, 20:52
	N/K NNE	Recorded 1 burst of tracer fire (4 shots) from ESE to WNW	Cannon (N/K calibre)	
		Recorded 1 tracer round fired ESE to WNW	11.07	11 November, 21:29
		Recorded 1 tracer round fired ESE to WNW	N/K	11 November, 21:41
		Recorded 1 explosion (impact)		12 November, 16:24
		Recorded 1 explosion (impact)		12 November, 16:24
		Recorded 1 explosion (impact)	NI/IV	12 November, 16:27
		Recorded 1 explosion (impact)	N/K	12 November, 16:30
		Recorded 1 explosion (impact)		12 November, 16:31
		Recorded 1 explosion (impact)		12 November, 16:33

		Recorded 1 explosion (impact)		12 November, 16:37
Svitlodarsk		Heard 32 undetermined explosions		11 November, 20:22-
(government-				20:30
controlled, 57km north-east of		Heard 9 undetermined explosions	Artillery (N/K	11 November, 20:30- 20:40
Donetsk)	3-5km NW	Heard 7 undetermined explosions	- calibre)	11 November, 20:40- 20:50
		Heard 7 undetermined explosions	-	11 November, 20:50- 21:00
	2-3km SE	Heard 10 undetermined explosions	N/K	11 November, 21:20
	3-5km NW	Heard 15 explosions (outgoing)	Artillery (N/K calibre)	11 November, 21:47- 21:52
SMM camera at Oktiabr mine		Recorded 6 undetermined explosions	Curiorey	11 November, 23:26
("DPR"-controlled, 9km NW of Donetsk		Recorded 4 undetermined explosions	-	11 November, 23:30
city centre)		Recorded 3 undetermined explosions	-	11 November, 23:31
		Recorded 3 undetermined explosions	-	11 November, 23:33
		Recorded 3 undetermined explosions	1	11 November, 23:34
	3-5km NNW	Recorded 2 undetermined explosions	N/K	11 November, 23:35
		Recorded 3 undetermined explosions	1	11 November, 23:36
		Recorded 4 undetermined explosions		11 November, 23:38
		Recorded 9 undetermined explosions		11 November, 23:39
		Recorded 5 undetermined explosions		11 November, 23:41
		Recorded 3 undetermined explosions		11 November, 23:42
	4-6km NE	Recorded 9 undetermined projectiles in flight from SW to NE	N/K	12 November, 17:50- 17:53
		Recorded 6 undetermined projectiles in flight form SW to NE		12 November, 17:58- 18:00
7km N of Horlivka	3-4km N	Heard 2 bursts	Small arms	12 November, 08:55
("DPR"-controlled, 39km NE of	3-4KIII N	Heard 5 shots		12 November, 08.33
Donetsk)	3-4km NW	Heard 2 bursts (2-4 shots in each)		12 November, 09:04
Lebedynske (government-	3-5km N	Heard 10 undetermined explosions.	NAT	12 November, 09:24- 09:27
controlled, 16km NE of Mariupol),	5km NNE	Heard 1 undetermined explosion	N/K	12 November, 09:45
Yasynuvata ("DPR"-	3-5km SW	Heard 1 undetermined explosion	N/K	12 November, 09:28
controlled, 16km NE of Donetsk	3km WSW	Heard 1 shot		12 November, 09:40
of Donetsk	JKIII W J W	Heard 1 burst (3 shots)	- Small arms	12 November, 09:41
	2-3km WSW	Heard 2 shots	Siliali arilis	12 November, 09:46
	2-3KIII W5 W	Heard 2 shots		12 November, 09:47
	5km W	Heard 3 undetermined explosions	N/K	12 November, 09:48
	3km WSW	Heard 2 shots	Small arms	12 November, 09:50
	5km W	Heard 2 undetermined explosions	N/K	12 November, 09:54
	3km WSW	Heard 1 shot		12 November, 09:55
	2-3km WSW	Heard 1 shot		12 November, 09:56
		Heard 4 shot	Small arms	12 November, 09:59
	2-3km W	Heard 36 shots		12 November, 10:06- 10:43

	600m-800m W	Heard 1 explosion (outgoing)	Tank	12 November, 10:07
	3-5km WSW	Heard 4 undetermined explosions	N/K	12 November, 10:30- 11:31
	3-3KIII W 3 W	Heard 13 bursts		12 November, 10:33
	1km NW	Heard 4 shots		12 November, 10:45
	2-3km SW	Heard 6 shots		12 November, 11:00
	2-3km WSW	Heard 2 shots	Small arms	12 November, 11:02
		Heard 15 shots		12 November, 11:03
	3-5km NW	Heard 7 shots		12 November, 11:06
	2-3km WSW	Heard 5 shots		12 November, 11:17
	3-5km SW	Heard 7 shots	Cannon (30mm)	12 November, 11:26
	3-5km WSW	Heard 19 shots	Small arms	12 November, 11:34-
	5-7km WSW	Hound 1 undetermined aumlesien	N/K	11:45 12 November, 11:47
	5-/KIII W S W	Heard 1 undetermined explosion Heard 23 shots	IN/K	
		Heard 3 bursts	C11	12 November, 11:52- 11:57
			Small arms	
	2.51 11/01/1	Heard 24 shots	A CI	12 November, 11:59- 12:11
	3-5km WSW	Heard 3 shots	AGL	12.11
		Heard 1 explosion (outgoing)	Tank	10.17
		Heard 2 undetermined explosion	N/K	12 November, 12:15
		Heard 7 bursts		10.37
		Heard 5 shots	Small arms	12 November, 12:30
	3-4km NW	Heard 4 shots		12 November, 12:33
		Heard 1 explosion (outgoing)	Tank	12 November, 12:34
		Heard 4 shots		12 November, 12:40
	3-5km NW	Heard 4 shots	Small arms	12 November, 12:44
	3-4km NW	Heard 7 shots		12 November, 12:47
	3-4km W	Heard 8 shots		
	3-5km WSW	Heard 5 shots		12 November, 12:50
		Heard 4 shots		12 November, 12:51
	5-6km NW	Heard 4 shots		12 November, 12:52
		Heard 1 undetermined explosion	N/K	·
	3-5km WSW	Heard 5 bursts	HMG	12 November, 12:54
	4-5km NW	Heard 2 explosions (outgoing)	Tank	
		Heard 10 bursts		12 November, 12:55
		Heard 5 bursts	HMG	
	2-3km WSW	Heard 6 bursts		12 November, 12:56
		Heard 18 shots	Small arms	12 November, 12:57
		Heard 10 shots		12 November, 12:58
	3-5km NW	Heard 1 undetermined explosion	N/K	12 November, 13:15
	2-3km NW	Heard 35 bursts	Small arms	12 November, 13:24-
		Heard 31 shots		13:38
	3-5km NW	Heard 2 undetermined explosions	N/K	12 November, 13:31
		Heard 1 undetermined explosion		12 November, 13:40
	0.21 3777	Heard 23 bursts		12 November, 13:40- 13:53
	2-3km NW	Heard 20 shots	Small arms	
	7-10km	Heard 5 shots	NUT	12 November, 14:05
	WNW	Heard 1 undetermined explosion	N/K	12 November, 14:07
	2-3km NW	Heard 28 shots	Small arms	12 November, 14:12- 14:16
		Heard 1 burst		12 November, 14:23
	3-5km NW	Heard 5 undetermined explosions	N/K	12 November, 14:25-

	2-3km NW	Heard 32 shots	Small arms	14:30
Hnutove	2-3KIII IN VV	Heard 1 explosion (outgoing)	Mortar (N/K calibre)	12 November, 09:43
(government-	5km SSE	Heard and saw 1 explosion (impact)	N/K	12 November, 09:45
controlled, 20km NE of Mariupol)	2-3km SSE	Heard 5 bursts	Small arms	12 November, 12:59
	2-3KIII 33E		Sman arms	
5km SW of Olenivka	1-2km SSE	Heard 7 bursts	Small arms	12 November, 10:05
("DPR"-controlled, 23km SW of	1 ZKIII SSE	Heard 1 burst	Sman arms	12 November, 10:10
Donetsk)	5-7km NNW	Heard 1 undetermined explosion	N/K	12 November, 14:03
SMM camera in	4-5km SE	Recorded 1 undetermined explosion		12 November, 10:35
Avdiivka	4-5km SE	Recorded 1 undetermined explosion		12 November, 15:05
(government-		Recorded 2 undetermined explosions		12 November, 15:28
controlled, 17km N of Donetsk)	2-3km SE	Recorded 1 undetermined explosion	-	12 November, 15:34
of Dolletsk)	2-3km SE	Recorded 1 undetermined explosion		12 November, 15:35
	4-5km SE	Recorded 1 undetermined explosion	<u> </u>	12 November, 15:36
	2-3km SE	Recorded 1 undetermined explosion	-	12 November, 15:38
	4.51 E	Recorded 1 undetermined explosion	-	12 November, 15:40
	4-5km E	Recorded 3 undetermined projectiles in flight from W to E		12 November, 16:21- 16:24
	3-4km E	Recorded 1 airburst		12 November, 16:25
	5-6km E	Recorded 3 undetermined projectiles	N/K	12 November, 16:25-
	4.51	in flight from E to W	 -	16:30
	4-5km E	Recorded 5 undetermined projectiles in flight from W to E		12 November, 16:32- 16:34
	9-10km ESE	Recorded 1 undetermined explosions		12 November, 16:43
	5-6km ESE	Recorded 1 explosion (impact)		12 November, 16:47
	J-OKIII ESE	Recorded 1 explosion (outgoing)		12 November, 16:47
	4-5km ESE	Recorded 1 explosion (impact)		12 November, 16:48
		Recorded 1 explosion (outgoing)		12 November, 16:55
	5-6km ESE	Recorded 1 illumination flare		12 November, 16:58
	4-5km ESE	Recorded 1 explosion (impact)		12 November, 17:50
		Recorded 2 explosions (impacts) Recorded 2 undetermined explosions		12 November, 17:55 12 November, 18:47
	2-4km SE	Recorded 2 undetermined explosions	N/K	12 November, 18:52
		Recorded 2 undetermined explosions		12 November, 19:02
Pyshchevyk	N/K SE	Heard 19 undetermined explosions	N/K	12 November, 10:19-
(government- controlled, 25km NE of Mariupol)		•		10:24
SW edge of Shyrokyne	5-7km N	Heard 14 undetermined explosions		12 November, 10:19- 10:23
(government-	5-7km NE	Heard 23 explosions	N/K	12 November, 10:43-
controlled, 20km E		-		10:47
of Mariupol)	5-7km N	Heard 5 undetermined explosions	N/K	12 November, 10:50
	3-5km NW	Heard 1 burst (25-30 shots)	Small arms	12 November, 11:02- 11:05
Berezove				11.05
(government- controlled, 31km SW of Donetsk)	3-5km N	Heard 1 undetermined explosion	N/K	12 November, 11:23
Petrivske ("DPR"-	4-6km NW	Heard 1 undetermined explosion		12 November, 11:30
controlled, 41km S of Donetsk)	10-15km NW	Heard 17 undetermined explosions		12 November, 14:55-
1.5km N of Petrivske		Heard 3 undetermined explosions	1	15:30 12 November, 13:33
("DPR"-controlled,		Heard 4 undetermined explosions	N/K	12 November, 13:38
41km S of Donetsk)	0 101-m NW7			
	8-10km NW	Heard 4 undetermined explosions		12 November, 14:04
		Heard 1 undetermined explosion		12 November, 14:15
D 1 1 . 1		Heard 2 undetermined explosions		12 November, 14:17
Bohdanivka	N/K NNW	Heard 1 undetermined explosion	N/K	12 November, 11:48

(Government		Heard 1 undetermined explosion		12 November, 12:18
controlled, 41km S of Donetsk)		Heard 9 undetermined explosions		12 November, 14:04- 14:30
		Heard 30 undetermined explosions		12 November, 14:30-
		Heard 3 shots	Small arms	15:00
		Heard 46 undetermined explosions	N/K	12 November, 15:00- 15:28
Kulykove ("DPR"- controlled, 30km NE of Mariupol)	N/K NNW	Heard 1 undetermined explosion	N/K	12 November, 11:59
3km NE of Zaichenko ("DPR"- controlled, 26km NE of Mariupol)	N/K SW	Heard 1 undetermined explosion	N/K	12 November, 13:01
Novohnativka (government- controlled, 40km S of Donetsk)	N/K NNE	Heard 3 undetermined explosions	N/K	12 November, 13:05- 13:12
Orlivske (government- controlled, 23km NE of Mariupol)	3-5km NE	Heard 3 undetermined explosions	N/K	12 November, 13:40
3km NNE of Debaltseve ("DPR"-	7-10km N	Heard 23 undetermined explosions		12 November, 14:14
controlled, 58km NE of Donetsk)	8-10km N	Heard 1 undetermined explosion	N/K	12 November, 14:45
Mariupol (government-		Heard 15 undetermined explosions		12 November, 15:40- 16:07
controlled)		Heard 20 undetermined explosions	N/K	12 November, 17:06
	N/K E	Heard 5 undetermined explosions		12 November, 17:45
		Heard 5 undetermined explosions		12 November, 18:13- 18:20
co o a		Recorded 1 undetermined explosion	N/K	
SMM camera in Shyrokyne (20km E	N/K NE	Recorded 3 shots from ENE to WSW	Small arms	12 November, 18:27
of Mariupol)		Recorded 4 explosions (impacts)	N/K	12 November, 21:54- 21:56
	N/K N	Recorded 1 explosion (impact)		12 November, 23:19
Kadiivka ("LPR"- controlled, formerly	5-10km WNW	Heard 94 undetermined explosions (impacts and outgoing)	Artillery and MLRS	11 November, 19:20- 20:32
Stakhanov, 50km W of Luhansk)	5-15km WSW	Heard 355 undetermined explosions (at least 16 were impacts, 26 rounds of 152mm were outgoing and their respective impacts, and 25 were MLRS explosions)	Artillery and MLRS	11 November, 20:32- 22:33
	N/K N	Heard 9 undetermined explosions	Artillery	11 November, 21:28- 21:44
	5km NW	Heard multiple bursts	HMG	11 November, 22:00
	10km WNW	Heard 4 undetermined explosions	Artillery	12 November, 01:30
	5km W	Heard 50 explosions (outgoing)	Artillery	12 November, 02:50-03:20
	15km WSW	Heard 80 explosions (50 outgoing and their corresponding impacts and 30 separate impacts)	Artillery	12 November, 02:50-03:20
	5-10km WSW	Heard 100 outgoing (explosions)	Artillery	12 November, 03:20-04:10
	10-15km WSW	Heard 150 explosions (impacts)	Artillery	12 November, 04:10-04:20
	10-20km	Heard 50 explosions (impacts and	Artillery	12 November,

	WSW	outgoing)		04:45-05:00
Slovianoserbsk ("LPR"-controlled,	3-4km NW	Heard 73 undetermined explosions	N/K	12 November, 09:27- 09:56
28km NW of Luhansk)	3km NW	Heard 5 undetermined explosions	N/K	12 November, 10:30- 10:35
Kalynove ("LPR"- controlled, 60km W of Luhansk)	3-6km W	Heard 4 explosions (outgoing)	Artillery (120mm)	12 November, 09:40
SMM camera in		Recorded 2 undetermined explosions		12 November, 19:30
Avdiivka		Recorded 2 undetermined explosions		12 November, 21:27
(government- controlled, 17km N	2-4km SE	Recorded 3 undetermined explosions		12 November, 22:29
of Donetsk)		Recorded 3 undetermined explosions		12 November, 22:30
,		Recorded 4 undetermined explosions	-	12 November, 22:31
	3-5km ESE	Recorded 2 undetermined explosions Recorded 1 undetermined explosion	-	12 November, 22:36 13 November, 10:51
	4-6km SE	Recorded 2 rocket-assisted projectiles	-	
	- OKIII BL	in flight from N to S		13 November, 15:34
	4-6km SE	Recorded 1 undetermined explosion		13 November, 15:34
	4-6km ESE	Recorded 2 undetermined explosions	_	13 November, 15:38
	4 4 4 4 4	Recorded 2 rocket-assisted projectiles fired from S to N		13 November, 15:38
	4-6km SE	Recorded 1 rocket-assisted projectile		13 November, 15:40
		in flight from S to N		·
		Recorded 1 undetermined explosion		13 November, 15:40
	4 Class ESE	Recorded 1 undetermined explosion Recorded 3 undetermined explosions	<u> </u>	13 November, 15:44 13 November, 15:45
	4-6km ESE	Recorded 1 undetermined explosion	-	13 November, 15:46
		Recorded 1 undetermined explosion	-	13 November, 15:52
		Recorded 3 undetermined explosions	-	13 November, 15:53
	4-6km ESE	Recorded 1 undetermined explosion		13 November, 16:02
		Recorded 3 rocket-assisted projectiles in flight from S to N		13 November, 16:05
		Recorded 2 rocket-assisted projectiles in flight from N to S		13 November, 16:05
	4-6km SE	Recorded 1 rocket-assisted projectile in flight from S to N		13 November, 16:28
	l okin be	Recorded 1 rocket-assisted projectile in flight from S to N		13 November, 16:31
Svitlodarsk	2-3km SE	Heard 1 burst	HMG	12 November, 19:33
(government-		Heard 3 undetermined explosions		12 November, 20:17
controlled, 57km NE of Donetsk)	4-5km E		N/K	12 November, 20.17
		Heard 1 undetermined explosion		12 November, 20:45
	1-2km S	Heard 5 shots	Small arms	
		Heard 5 bursts		12 November, 21:07
		Heard 1 undetermined explosion	N/K	
		Heard 11 explosions (impact)		12 November, 21:18
	2-3km SSE	Heard 6 explosions (outgoing)	- Mortar	12 November, 21:35
		Heard 5 explosions (impact)	Wioitai	12 November, 21:48
		Heard 6 explosions (outgoing)		12 November, 22:09
	4-6km E	Heard 10 undetermined explosions	N/K	12 November, 22:33- 22:37
	2.21. GE	Heard 8 explosions (impacts)	Mantan	13 November, 09:42- 10:00
	2-3km SE	Heard 1 explosion (impact)	Mortar	13 November, 10:05
		ı	1	1

Г	T		1	1 10 20
		Heard 8 explosions (impacts)		13 November, 10:20- 10:22
		Heard 7 explosions (impacts)		13 November, 12:30- 12:40
		Heard 5 explosions (impacts)	_	13 November, 12:40- 12:50
		Heard 10 bursts	HMG	
		Heard 4 bursts	Small arms	13 November, 17:44-
		Heard 4 bursts	Anti-aircraft gun (ZU-23)	18:00
		Heard 1 undetermined explosion	N/K	
		Heard 17 bursts	HMG	
		Heard 11 bursts	Anti-aircraft gun (ZU-23)	
	2-3km SSE	Heard 2 bursts	Small arms	13 November, 18:14- 18:30
		Heard 2 explosions (impacts)	Mortar	
		Heard 7 bursts	HMG	
		Heard 1 undetermined explosion	N/K	13 November, 18:31
		Heard 3 bursts	Anti-aircraft gun (ZU-23)	
Horlivka ("DPR"-	4-5km S	Heard 1 undetermined explosion		12 November, 19:45
controlled, 39km NE of Donetsk city	7-8km SW	Heard 4 undetermined explosions	N/K	12 November, 21:45- 21:51
centre)	4-5km SW	Heard 4 shots	IFV (BMP-2) cannon (30mm)	12 November, 21:56
		Heard 9 bursts (3-5 shots)	HMG	10 N 1 20 10
	4-5km W	Heard 6 shots	Small arms	12 November, 22:12- 22:15
		Heard 3 undetermined explosions	IFV (BMP-1) cannon (73mm)	22.13
	8-7km W	Heard 1 undetermined explosion		12 November, 22:17
	6-7km W	Heard 12 undetermined explosions	N/K	12 November, 22:25- 22:30
	6-8km W	Heard 2 undetermined explosions		12 November, 22:35
Debaltseve ("DPR"- controlled, 58km NE of Donetsk)	7-10km WNW	Heard 23 undetermined explosions	N/K	12 November, 23:42- 23:44
Park Inn Hotel ("DPR"-controlled,		Heard 7 undetermined explosions		12 November, 23:56- 23:58
Donetsk)	5-10km NW	Heard 43 undetermined explosions	N/K	13 November, 00:02- 00:51
		Heard 53 undetermined explosions		13 November, 01:14- 03:01
Avdiivka		Heard 1 undetermined explosion	†	13 November, 10:02
(government-	8km S	Heard 1 undetermined explosion	N/K	13 November, 10:04
controlled, 17km N	21 27	Heard 4 explosions (outgoing)	16 (02	13 November, 10:22
of Donetsk)	3km SE	Heard 2 explosions (impacts)	Mortar (82mm)	13 November, 10:24
	4km E	Heard uncountable/unquantifiable	Small arms and HMG	13 November, 10:25
	Alem CE	overlapping bursts and single shots	LIMC	12 November 10 25
	4km SE	Heard 5 bursts	HMG Small orms	13 November, 10:35
		Heard 5 bursts Heard 1 explosion (impact)	Small arms Mortar (82mm)	13 November, 10:37 13 November, 10:42
	4km E	Heard uncountable/unquantifiable	Small arms	13 November, 10:42
	Olem CE	overlapping bursts and single shots	Mortor (120mm)	13 November, 10:51
	2km SE 4km E	Heard 1 explosion (impact) Heard 1 undetermined explosion	Mortar (120mm) N/K	13 November, 10:51 13 November, 10:52
	4KIII E	Ticara i anacterninica explosion	11/11	15 110 (6111061, 10.52

		Heard uncountable/unquantifiable	Small arms	13 November, 10:54
		overlapping bursts and single shots		15 1 (6 (6)1661, 1015 1
	3km SE	Heard 1 explosion (outgoing)		13 November, 10:55
	4km SE	Heard 3 explosions (impacts)	Mortar (82mm)	13 November, 10:57
	Alam E	Heard uncountable overlapping single shots and bursts	Small arms	13 November, 11:26
	4km E	Heard 1 explosion (impact)		13 November, 11:34
	al an	Heard 4 explosions (outgoing)	Mortar (82mm)	13 November, 11:35
	3km SE	Heard 1 explosion (impact)		13 November, 11:36
	4km SE	Heard 4 bursts	HMG	13 November, 11:51
	5km SE	Heard 5 bursts		13 November, 11:53
		Heard 2 undetermined explosions	N/K	13 November, 11:59
	4km SE	Heard 2 undetermined explosions	N/K	13 November, 11:59
		Heard uncountable overlapping single shots and bursts	IFV (BMP-2 cannon, 30mm), HMG and small arms	13 November, 12:17- 12:19
		Heard 1 explosion (impact)		13 November, 12:21
		Heard 1 explosion (impact)	Mortar (82mm)	13 November, 12:25
	4km SE	Heard uncountable single shots and bursts	HMG and small arms	
		Heard 20 bursts	IFV (BMP-2) cannon (30mm)	13 November, 13:01-
		Heard 10 undetermined explosions	Mortar (82mm)	13:07
		Heard 30 bursts	AGL	-
		Heard 2 explosions (impacts)		13 November, 13:09
		Heard 2 explosions (impacts)	Artillery (122mm)	13 November, 13:10
	4km S	Heard 1 explosion (impact)	Mortar (120mm)	13 November, 13:15
		Heard 1 explosion (impact)		13 November, 13:21
	4km SE	Heard 1 burst	Small arms	13 November, 13:23
Yasynuvata ("DPR"-	3-5km WSW	Heard 1 undetermined explosion		13 November, 10:53
controlled, 16km NE of Donetsk	5-8km W	Heard 3 undetermined explosions		13 November, 10:57- 10:59
	2-3km SW	Heard 42 undetermined explosions		13 November, 13:00- 13:10
		Heard 1 explosion (outgoing)	N/K	13 November, 13:23
	3-5km SW	Heard 1 explosion (impact)	-	,
		Heard 1 explosion (outgoing) Heard 1 explosion (impact)	-	13 November, 13:28
	3-5km SE	Heard 1 undetermined explosion	-	13 November, 13:34
	3-5km WSW	Heard 1 undetermined explosion	1	13 November, 13:36
	2-3km SE	Heard 31 bursts (2-3 shots each)		13 November, 13:40-
		Heard 9 bursts		13:50 13 November, 13:53-
	2-3km SSE	Heard 14 shots	Small arms	14:10
	2 JAIII DOL	Heard 5 shots		13 November, 14:15
		Heard 35 shots		13 November, 14:20-

				14:26
		Heard 1 undetermined explosion	N/K	13 November, 14:27
1.5km ENE of Pikuzy ("DPR"- controlled, 23km NE of Mariupol)	N/K SSE	Heard 2 undetermined explosions	N/K	13 November, 11:02
Pikuzy ("DPR"- controlled, 23km NE	5km SSE	Heard 3 bursts	IFV (BMP-2) cannon	13 November, 11:32- 11:40
of Mariupol)		Heard 3 bursts	(30mm)	13 November, 12:25- 12:30
	1km SSE	Heard 2 explosions (outgoing)	N/K	13 November, 13:08- 13:10
1.9km ENE of Bohdanivka	3km SSE	Heard 1 undetermined explosion	N/K	13 November, 11:43
(government- controlled, 41km S	N/K SSE N/K NNE	Heard 1 undetermined explosion Heard 1 undetermined explosion	IN/K	13 November, 12:00
of Donetsk) Park Inn Hotel	IN/K ININE	Heard 1 undetermined explosion		
("DPR"-controlled, Donetsk)	6-10km NW	Heard at least 100 undetermined explosions	N/K	13 November, 13:00- 15:00
Petrivske ("DPR"- controlled, 41km S of Donetsk)	6-8km SW	Heard 1 undetermined explosion	N/K	13 November, 13:36
Maiorsk (government-	1-2km E	Heard 1 undetermined explosion	N/K	13 November, 14:20
controlled, 45km NE of Donetsk)	2-3km NE	Heard 3 undetermined explosions		13 November, 14:55
7km N of Horlivka ("DPR"-controlled, 39km north of Donetsk	4km N	Heard 1 undetermined explosion	N/K	13 November, 14:21
SMM camera at Oktiabr mine" (9km NW of Donetsk city centre)	6-8 km NE	Recorded 2 rocket-assisted projectiles in flight from N to S	N/K	13 November, 16:22
Kalynove ("LPR"-controlled,	5-10km NNW	Heard 12 undetermined explosions	N/K	13 November, 09:25-
58km W of Luhansk)	10km SW	Heard 1 undetermined explosion	IV/K	10:11
1km NW of Pervomaisk ("LPR"- controlled, 57km west of Luhansk)	>10km SW	Heard 2 undetermined explosions	N/K	13 November, 09:44
Sokilnyky ("LPR"-controlled, 38km NW of Luhansk)	3km SW	Heard 1 burst	HMG	13 November, 11:34
Lopaskyne (government- controlled, 23km NW of Luhansk)	2-3km N	Heard 5-7 shots	Small arms	13 November, 12:33
Kadiivka (formerly Stakhanov, "LPR"-	10km WSW	Heard 10 undetermined explosions	- N/K	13 November, 13:12- 13:42
controlled, 50km W of Luhansk)	10km SW	Heard 7 undetermined explosions	17/12	13 November, 16:18- 16:20
Novotoshkivske (government- controlled, 53km NW of Luhansk)	4-5km SE	Heard 3 undetermined explosions	N/K	13 November, 13:30- 13:33
Staryi Aidar (government-	3-5km S	Heard 8 shots	HMG	13 November, 13:30
controlled, 20km NW of Luhansk)	8-10km S	Heard 6 undetermined explosions	N/K	13 November, 13:35
Troitske		Heard 6 undetermined explosions	N/K	13 November, 13:40

controlled, 69km west of Luhansk)				
Zhovte ("LPR"- controlled, 17km NW of Luhansk)	200-300m W	Heard 1 explosion	Assessed as antipersonnel mine	13 November, 14:10
	5-10km WNW	Heard 10 undetermined explosions	N/K	13 November, 14:15- 14:38

Map of Donetsk and Luhansk regions²



² The SMM is actively 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 since 27 September based on recommendations of security experts from participating States).