

Table of ceasefire violations as of 9 November 2016¹

SMM position	Location of event	Observation	Type of weapon/ammunition	Date/time
Park Inn Hotel (“DPR”-controlled, Donetsk city centre)	5-10km NW	Heard 9 undetermined explosions	N/K	8 November, 19:30-19:35
		Heard 12 undetermined explosions		8 November, 19:50-20:01
		Heard 7 undetermined explosions		8 November, 20:14-20:18
		Heard 10 undetermined explosions		8 November, 20:34-20:39
		Heard 33 undetermined explosions		8 November, 20:44-21:13
		Heard 15 undetermined explosions		8 November, 22:10-22:19
		Heard 2 undetermined explosions		8 November, 22:29
		Heard 17 undetermined explosions		8 November, 22:36-22:42
		Heard 25 undetermined explosions		8 November, 22:51-22:56
		Heard 36 undetermined explosions		8 November, 23:09-23:13
		Heard 23 undetermined explosions		8 November, 23:21-23:27
		Heard 30 undetermined explosions		8 November, 23:31-23:48
		Heard 12 undetermined explosions		9 November, 00:06-00:12
		Heard 6 undetermined explosions		9 November, 00:35
		Heard 5 undetermined explosions		9 November, 00:47
		Heard 15 undetermined explosions		9 November, 00:55-01:03
		Heard 5 undetermined explosions		9 November, 01:14
		Heard 4 undetermined explosions		9 November, 01:26
		Heard 8 undetermined explosions		9 November, 01:58
		Heard 14 undetermined explosions		9 November, 02:57-03:03
Outskirts 10.5km SW of Donetsk city centre	3-5km W	Heard 1 undetermined explosion	N/K	9 November, 08:50
		Heard 1 undetermined explosion		9 November, 08:53
		Heard 1 undetermined explosion		9 November, 09:00
SMM camera at Oktiabr mine (“DPR”-controlled, 9km NW of Donetsk)	6-9km NE	Recorded 1 airburst	N/K	9 November, 07:21
		Recorded 2 undetermined explosions		
		Recorded 1 undetermined explosion		9 November, 15:51

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.

Debaltseve (“DPR”-controlled, 58km NE of Donetsk)	8-10km NNW	Heard 15 undetermined explosions	N/K	9 November, 06:55-07:15
	5-7km NNW	Heard 7 undetermined explosions		9 November, 15:50
SSW outskirts of Debaltseve (“DPR”-controlled, 58km NE of Donetsk)	7-10km NNW	Heard 29 undetermined explosions	N/K	9 November, 13:47-14:10
	6-8km NNW	Heard 58 undetermined explosions		9 November, 14:13-14:25
		Heard 57 undetermined explosions		9 November, 14:30-14:52
	10-12km NW	Heard 33 undetermined explosions		
	6-8km NNW	Heard at least 7 bursts	Small arms	
	10-12km NNW	Heard 24 undetermined explosions	N/K	9 November, 14:55-15:17
	6-8km NW	Heard 8 undetermined explosions		
Stupakove (former Krasnyi Pakhar (“DPR”-controlled, 48km NE of Donetsk))	10-12km NNW	Heard 5 undetermined explosions	N/K	9 November, 13:26-13:28
Yasynuvata (“DPR”-controlled, 16km NE of Donetsk)	2-4km W	Heard 7 undetermined explosions	N/K	9 November, 09:10-09:13
		Heard 12 bursts	Small arms	
		Heard 11 shots		
		Heard 5 bursts	Heavy machine-gun	
	2-3km W	Heard 3 shots	Small arms	9 November, 09:15-09:19
	3-5km WNW	Heard 1 undetermined explosion	N/K	9 November, 09:21
	2-3km W	Heard 19 shots	Small arms	9 November, 09:34-09:40
				9 November, 09:43
	3-4km W	Heard 1 shot		
	2-3km WNW	Heard 1 shot		
	4-6km SW	Heard 5 undetermined explosions	N/K	9 November, 09:43-09:53
	1-2km WSW	Heard 2 undetermined explosions		
	3-4km W	Heard 3 shots	Small arms	
	4-6km WSW	Heard 20 shots		
	2-3km W	Heard 18 shots		
	1.5-2km WSW	Heard 1 burst (30 shots)	N/K	
				Heard 3 shots
		Heard 2 undetermined explosions		
	3-4km WSW	Heard 6 bursts	Small arms	9 November, 09:56-10:03
	2-3km WSW	Heard 3 shots		
	2-3km WNW	Heard 7 shots	N/K	
				Heard 4 bursts (3 shots each)
				Heard 1 undetermined explosion
Heard 25 shots				
2-3km W	Heard 4 shots	Small arms	9 November, 10:18-10:22	
			Heard 1 undetermined explosion	
2-3km W	Heard 5 bursts	Small arms	9 November, 10:31-10:36	
			Heard 1 undetermined explosion	
2-3km W	Heard 4 shots	Small arms		
			Heard 1 burst	
3-4km W	Heard 7 undetermined explosions	N/K	9 November, 10:41	
2-3km W	Heard 5 bursts	Small arms		
2-4km W	Heard 4 bursts	Heavy machine-gun	9 November, 10:48-10:50	
				Heard 21 undetermined explosions
		N/K		

		Heard 15 shots	Small arms	
	3-5km W	Heard 7 undetermined explosions	N/K	9 November, 10:52
	2-3km W	Heard 4 bursts	Small arms	
	3-4km WSW	Heard 7 undetermined explosions	N/K	9 November, 10:55-10:57
	3-4km W	Heard 9 undetermined explosions		
	2-3km WSW	Heard 4 shots	Small arms	9 November, 11:06-11:13
	4-6km SW	Heard 2 bursts	Heavy machine-gun	
		Heard 3 bursts	Small arms	
	2-3km WSW	Heard 2 shots		
	1-2km WSW	Heard 10 shots		
	3-4km WSW	Heard 1 undetermined explosion	N/K	9 November, 11:17
	4-6km WSW	Heard 2 shots	Small arms	9 November, 11:23
	6km S	Heard 1 undetermined explosion	N/K	9 November, 11:28-11:29
	4-6km WSW	Heard 1 undetermined explosion		
	1-2km W	Heard 2 explosions (outgoing)	Tank (N/K type)	
	2-3km WNW	Heard 3 bursts	Heavy machine-gun	9 November, 11:38
		Heard 8 undetermined explosions	N/K	9 November, 11:46-11:48
		Heard 9 shots	Small arms	
		Heard 16 shots		9 November, 11:53-12:28
		Heard 7 undetermined explosions	N/K	
	5-7km WNW	Heard 27 undetermined explosions		
	2-3km W	Heard 8 shots	Small arms	
	3-4km W	Heard 2 undetermined explosions	N/K	
	2-3km W	Heard 13 shots	Small arms	
		Heard 37 bursts	Heavy machine-gun	
	5-7km WNW	Heard 1 undetermined explosion	N/K	
	2-3km W	Heard uncountable overlapping bursts	Heavy machine-gun	
	2-4km W	Heard 2 undetermined explosions	N/K	
	2-3km W	Heard 15 shots	Small arms	
		Heard 6 bursts	Heavy machine-gun	
	2-6km WNW	Heard 9 undetermined explosions	N/K	
	2-3km W	Heard 4 shots	Small arms	
	2-4km W	Heard 3 undetermined explosions	N/K	
	2-3km W	Heard 11 bursts	Heavy machine-gun	9 November, 12:28-12:46
		Heard 13 undetermined explosions	N/K	
	2-4km W	Heard 34 shots	Small arms	
		Heard 148 bursts		
		Heard 23 undetermined explosions	N/K	
	3-4km W	Heard 9 undetermined explosions		
		Heard 4 times uncountable overlapping undetermined explosions (barrage)		
	2-3km W	Heard 3 bursts	Small arms	
		Heard 41 shots		
	2-4km W	Heard 27 bursts		9 November, 12:49-12:51
		Heard 15 shots		
	2-5km W	Heard 11 undetermined explosions	N/K	9 November, 12:54-

2-3km W	Heard 35 bursts	Small arms	13:01
	Heard 8 shots		
2-6km W	Heard 20 undetermined explosions	N/K	9 November, 13:10-13:17
2km WSW	Heard 1 shot	Small arms	
6km W	Heard 1 undetermined explosion	N/K	
1-2km W	Heard 1 undetermined explosion		
4km WSW	Heard 1 burst	Heavy machine-gun	
4-5km S	Heard 5 shots	Small arms	
6km NW	Heard 1 undetermined explosion	N/K	
6km W	Heard 1 undetermined explosion		
4-6km W	Heard 19 shots	Small arms	
1-2km W	Heard 5 shots		
4-5km S	Heard 6 shots		
4-6km WSW	Heard 9 shots		
	Heard 4 undetermined explosions	N/K	
2-3km W	Heard 4 shots	Small arms	
4-6km WSW	Heard 1 undetermined explosion	N/K	
1-2km WSW	Heard 3 shots	Small arms	
4-6km WSW	Heard 1 undetermined explosion	N/K	
1-2km W	Heard 1 undetermined explosion		
4-6km WSW	Heard 5 undetermined explosions		
4-6km SW	Heard 3 shots	Small arms	
2-3km W	Heard 17 shots		
4-6km W	Heard 2 undetermined explosions	N/K	
2-3km W	Heard 11 shots	Small arms	9 November, 13:31-13:32
3km W	Heard 16 shots		
2-3km W	Heard 8 shots		
4-6km W	Heard 1 undetermined explosion	N/K	9 November, 13:33-13:35
2-4km W	Heard 12 undetermined explosions		
	Heard 3 times uncountable overlapping undetermined explosions (barrage)		
2-3km W	Heard 25 shots	Small arms	9 November, 13:36-13:39
	Heard 7 bursts	Heavy machine-gun	
2-6km W	Heard 23 undetermined explosions	N/K	9 November, 13:40-13:43
2-3km W	Heard 38 bursts	Heavy machine-gun	
		Heard 6 shots	Small arms
2-4km W	Heard 23 undetermined explosions	N/K	9 November, 13:43-13:46
2-3km W	Heard 4 bursts	Heavy machine-gun	
		Heard 17 shots	Small arms
2-6km W	Heard 21 undetermined explosions	N/K	9 November, 13:47-13:49
2-3km W	Heard 15 bursts	Heavy machine-gun	
		Heard 28 shots	Small arms
2-6km W	Heard 10 undetermined explosions	N/K	9 November, 13:50-
2-3km W	Heard 34 bursts	Heavy machine-gun	
		Heard 8 shots	
2-4km W	Heard 9 undetermined explosions	N/K	

	2-3km W	Heard 43 bursts	Heavy machine-gun	13:54
		Heard 35 shots	Small arms	
	2-6km W	Heard 30 undetermined explosions	N/K	9 November, 13:55-14:00
	2-3km W	Heard 23 bursts	Heavy machine-gun	
		Heard 31 shots	Small arms	
	1-2km WNW	Heard 24 shots	Heavy machine-gun	9 November, 14:11-14:27
		Heard 8 bursts		
		Heard 36 undetermined explosions	N/K	9 November, 14:30-14:32
		Heard 4 undetermined explosions		
	1-2km W	Heard 5 undetermined explosions	Heavy machine-gun	9 November, 14:44-14:50
	2-3km W	Heard 3 undetermined explosions		
		Heard 19 bursts		
		Heard 30 shots	Small arms	
	2-6km W	Heard 12 undetermined explosions	N/K	9 November, 14:51-15:00
5-7km SW	Heard 6 bursts	Anti-aircraft cannon (N/K calibre)		
0.7-4km W	Heard 10 bursts	Heavy machine-gun		
2-3km W	Heard 6 shots	Small arms		
SMM camera in Shyrokyne (20km E of Mariupol)	N/K NE	Recorded 1 direct tracer in flight from SE to NW	N/K	8 November, 23:25
		Recorded 7 direct tracer bursts in flight from W to E		9 November, 16:49-16:50
		Recorded 5 direct tracer bursts in flight from E to W		
		Recorded 7 direct tracer bursts in flight from W to E		9 November, 16:59
		Recorded 14 direct tracer bursts in flight from E to W		
		Recorded 28 direct tracer bursts in flight from W to E		9 November, 17:12-17:13
		Recorded 28 direct tracer bursts in flight from W to E		
		Recorded 24 direct tracer bursts in flight from W to E		9 November, 17:21
		Recorded 17 direct tracer bursts in flight from E to W		
		Recorded 27 direct tracer bursts in flight from W to E		9 November, 17:37
		Recorded 14 direct tracer bursts in flight from E to W		
		Recorded 12 direct tracer bursts in flight from W to E		9 November, 18:03
		Recorded 26 direct tracer bursts in flight from W to E		
		Recorded 27 direct tracer bursts in flight from W to E		
		Recorded 28 direct tracer bursts in flight from W to E		
		Recorded 28 direct tracer bursts in flight from W to E		
		Recorded 16 direct tracer bursts in flight from W to E		
		Recorded 7 direct tracer bursts in flight from W to E		
		Recorded 53 tracers of direct fire from W to E		
		Recorded 36 tracers of direct fire from E to W		

		Recorded 68 tracers of direct fire from W to E		9 November, 18:10
		Recorded 3 tracers of undetermined indirect fire from E to W		
		Recorded 49 tracers of direct fire from W to E		9 November, 18:17
		Recorded 1 undetermined tracer of indirect fire from E to W		
		Recorded 6 tracer bursts of direct fire from W to E		9 November, 18:20
		Recorded 27 tracer bursts of direct fire from W to E		9 November, 18:26
		Recorded 15 tracer bursts of direct fire from W to E		9 November, 18:36
		Recorded 23 tracer bursts of direct fire from W to E		9 November, 18:41
		Recorded 2 undetermined tracers of indirect fire from E to W		
		Recorded 59 tracer bursts of direct fire from W to E		9 November, 18:48
		7.3km NE of Hnutove (government-controlled, 20km NE of Mariupol)		7km SW
Zoria (government-controlled, 22km NE of Mariupol)	N/K SSW	Heard 8 explosions (impacts)	Artillery (N/K calibre)	9 November, 09:51 – 09:53
	3-5km SSW	Heard 12 undetermined explosions	N/K	9 November, 10:09 – 10:17
Verkhnohyrokiivse (formerly Oktiabr, “DPR”-controlled, 29km NE of Mariupol)	0.5km E	Heard 12 explosions (impact)	N/K	9 November, 09:15
	N/K SSW	Heard 12 explosions (outgoing)	Artillery (N/K calibre)	9 November, 09:53-10:10
	100m E	Heard 5 undetermined explosions		
		Heard 5 explosions (impacts)		
50m SE	Heard 9 explosions (impacts)			
2km N of Novotroitske (government-controlled, 36km SW of Donetsk)	1.5km NE	Heard 15 undetermined explosions	N/K	9 November, 11:05-11:08
	2-4km ENE	Heard 7 undetermined explosions		9 November, 11:12-11:21
	2-4km E	Heard 1 undetermined explosion		9 November, 11:24
3km NW of Oleksandrivske, (formerly Rozy Liuksemburh (“DPR”-controlled, 44km NE of Mariupol)	N/K W	Heard 6 explosions (impact)	N/K	9 November, 12:12
5km W of Oleksandrivske	N/K W	Heard 9 undetermined explosions	N/K	9 November, 13:03-13:04
		Heard 11 undetermined explosions		9 November, 13:54
Prymorske (“DPR”-controlled, 39km NE of Mariupol)	N/K W	Heard 6 explosions (impacts)	N/K	9 November, 12:12
Orlivske (government-controlled, 23km NE of Mariupol)	3-5km S	Heard 2 undetermined explosions	N/K	9 November, 12:53
		Heard 5 undetermined explosions		9 November, 13:07-13:19
	2km S	Heard 3 outgoing explosions		9 November, 13:53-13:56
	3-5km SE	Heard 1 undetermined explosion		

Pavlopil (government-controlled, 26km NE of Mariupol)	2km SE	Heard 4 undetermined explosions	N/K	9 November, 14:23-14:43
		Heard 6 explosions	Mortar (N/K calibre)	
		Heard at least 3 bursts	Anti-aircraft cannon ZU-23(23mm)	
		Uncountable bursts	Small arms	
Horlivka (“DPR”-controlled, 39km NE of Donetsk)	4-6km W	Heard 9 single shots	Heavy machine-gun	8 November, 18:30-18:32
	6-8km W	Heard 12 explosions (impacts)	Mortar (120mm)	8 November, 18:44-18:46
		Heard 8 undetermined explosions	N/K	
	4-5km W	Heard 19 bursts (3-5 shots)	Heavy machine-gun	8 November, 18:46-18:49
	6-8km W	Heard 3 explosions (impacts)	Mortar (120mm)	8 November, 18:48
		Heard 14 undetermined explosions	N/K	8 November, 18:50-19:00
		Heard 15 explosions (impacts)	Mortar (120mm)	8 November, 19:03-19:08
	4-5km W	Heard 8 explosions	IFV (BMP-2) cannon (30mm)	8 November, 19:15-19:34
		Heard 11 explosions (impacts)	Mortar (120mm)	
		Heard 4 bursts (3-5 shots)	Heavy machine-gun	
	6-8km SW	Heard 11 explosions (impacts)	Mortar (120mm)	
	6-8km WSW	Heard 3 explosions (impacts)		
	4-5km WSW	Heard 9 bursts (4-6 shots)	Heavy machine-gun	
	6-8km WSW	Heard 4 undetermined explosions	N/K	
	4-5km WSW	Heard 3 bursts (4-6 shots)	Heavy machine-gun	8 November, 19:35
			Anti-aircraft-gun (ZU-23-2, 23mm)	8 November, 19:38
		Heard 9 bursts	Heavy machine-gun	8 November, 19:48
		Heard 7 single shots		8 November, 19:51
	Heard 7 bursts			
	6-8km WSW	Heard 3 undetermined explosions	N/K	8 November, 19:52-19:59
	4-5km W	Heard 11 explosions (outgoing)	Mortar (120mm)	8 November, 21:11-21:14
	8-10km W	Heard 11 explosions (impacts)		8 November, 20:12-20:15
	4-5km W	Heard 3 bursts	Heavy machine-gun	8 November, 20:34
		Heard 7 explosions (outgoing)	Mortar (120mm)	8 November, 20:36
	6-10km WSW	Heard 38 undetermined explosion	N/K	8 November 20:40-20:48
	6-8km W	Heard 13 undetermined explosion		8 November 20:52-20:58
	4-5km W	Heard 24 bursts	Small arms	
	6-8km W	Heard 12 undetermined explosions	N/K	8 November, 21:28-21:39
		Heard 2 undetermined explosions		8 November, 23:33
	6-8km W	Heard 24 undetermined explosions	N/K	9 November, 11:28-11:50
	7-8km NW	Heard 2 explosions (impacts)	Mortar (N/K calibre)	9 November, 13:30
	7-10km W	Heard 5 undetermined explosions	N/K	9 November, 15:35-15:37
	7-8km W	Heard 1 undetermined explosion		9 November, 15:30
8-10km W	Heard 4 undetermined explosion	9 November, 16:40		
6-8km W	Heard 1 undetermined explosion	9 November, 16:44		
4-5km W	Heard 2 bursts	Heavy machine-gun	9 November, 16:45	
6-7km W	Heard 1 undetermined explosion	N/K	9 November, 16:47	
7-8km W	Heard 4 explosions (impacts)		9 November, 16:50	

	7-8km W	Heard 4 undetermined explosions		9 November, 16:52
	8-10km W	Heard 3 undetermined explosions		9 November, 17:18
	6-8km W	Heard 1 undetermined explosion		9 November, 17:22
	3-4km NW	Heard 3 bursts	Small arms	9 November, 17:23
	5-8km W	Heard 2 undetermined explosions	N/K	9 November, 17:31
	7-9km W	Heard 3 undetermined explosions		9 November, 17:40
	8-10km W	Heard 7 undetermined explosions		9 November, 17:42-17:46
	6-8km W	Heard 3 explosions (impacts)		9 November, 17:55
	8-10km W	Heard 1 undetermined explosion		9 November, 18:04
		Heard 10 bursts		Small arms
	8-10km W	Heard 2 undetermined explosion	N/K	9 November, 18:15
		Heard 1 undetermined explosion		9 November, 18:30-18:36
		Heard 1 undetermined explosion		
		Heard 3 undetermined explosions		
	4-5km NWW	Heard 25 bursts (2shots each)	Small arms	09 November, 18:40
	3-4km WNW	Heard 5 bursts (4-7 shots each)		
	7-8km WNW	Heard 5 explosions (impacts)	N/K	9 November, 18:57-18:59
		Heard 3 undetermined explosions		9 November, 19:03-19:07
	8-9km WNW	Heard 7 undetermined explosions		
	6-7km WNW	Heard 1 undetermined explosion		
	4-5km WSW	Heard 16 bursts (2-3 shots)	Small arms	9 November, 19:16-19:17
	5-6km NW	Heard 2 bursts	IFV (BMP-2) cannon (30mm)	
	7-8km NW	Heard 4 undetermined explosions	N/K	9 November, 19:24-19:25
Heard 7 bursts		Small arms		
Svitlodarsk (government-controlled, 57km NE of Donetsk)	2-5km SSE	Heard 55 explosions	Mortar (N/K calibre)	8 November, 18:18-19:00
		Heard 56 bursts	Heavy machine-gun	
		Heard 10 bursts	Anti-aircraft-gun (ZU-23-2, 23mm)	
		Heard 7 undetermined explosions	N/K	
		Heard 7 explosions (impacts)	Artillery (N/K calibre) Heavy machine-gun	
2-3km SE	Heard 14 bursts			
2-3km S	Heard 3 bursts	Anti-aircraft-gun (ZU-23-2, 23mm)	8 November, 19:01-19:07	
	Heard 10 bursts	Heavy machine-gun		
2-3km SE	Heard 2 undetermined explosions	N/K	8 November, 20:14	
2-4km SE	Heard 6 undetermined explosions			9 November, 15:44-15:55
	Heard 4 bursts	Heavy machine-gun		
	Heard 2 bursts	Small arms		
	Heard 6 undetermined explosions	N/K		

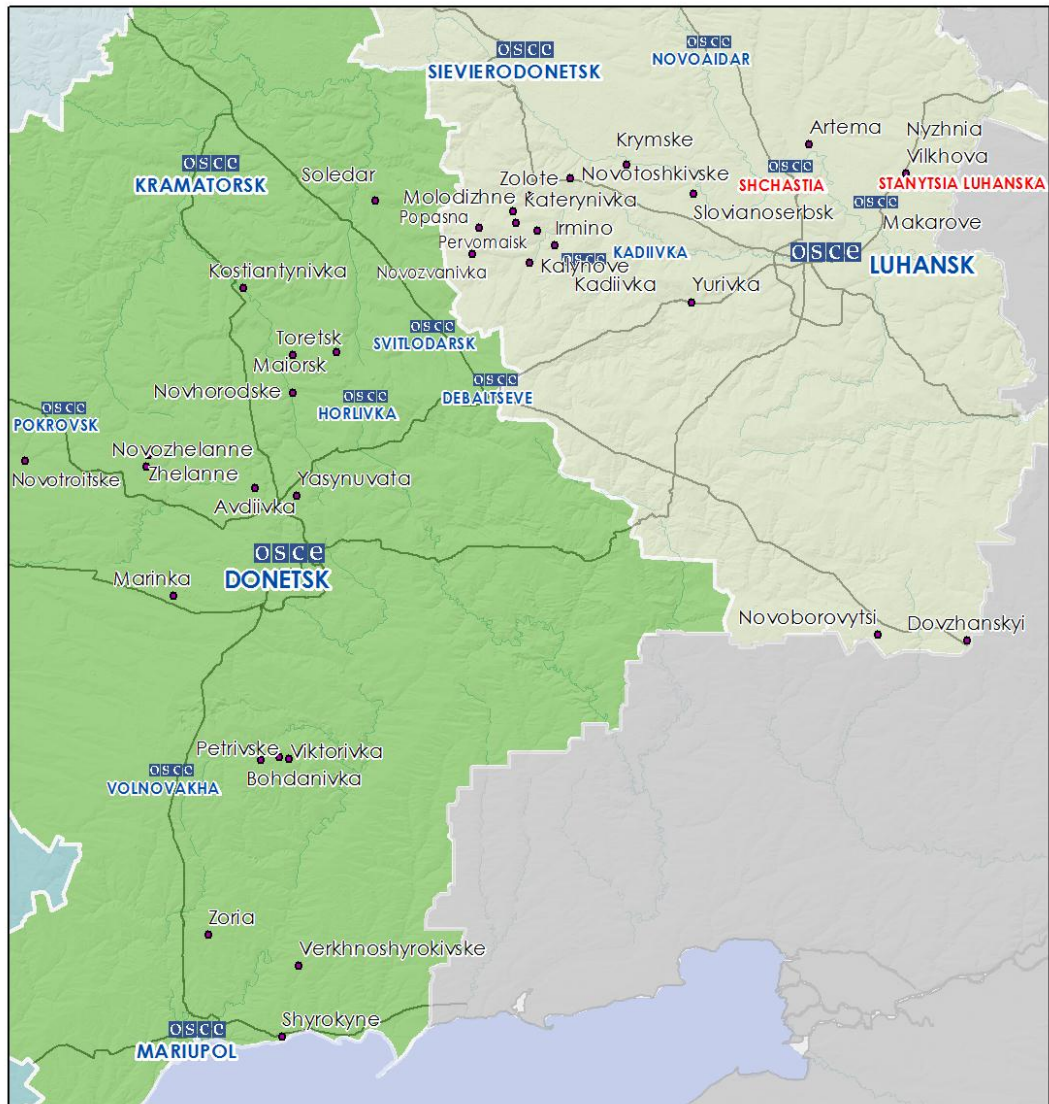
		Heard 1 burst	Heavy machine-gun	9 November, 16:04	
	2km SE	Heard 10 bursts			
	2-3km SSE	Heard 46 explosions (impacts)	Mortars (N/K calibre)		
		Heard 5 bursts	Heavy machine-gun		
		Heard 2 bursts			
Avdiivka (government-controlled, 17km N of Donetsk)	3-4km SE	Heard 5 bursts	Small arms	9 November, 10:30	
		Heard 2 undetermined explosions	N/K	9 November, 10:43	
		Heard 1 burst	Small arms	9 November, 10:55	
		Heard 1 undetermined explosion	N/K	9 November, 11:00	
		Heard 1 undetermined explosion		9 November, 11:10	
		Heard 5 bursts	Small arms	9 November, 11:35	
		Heard 2 undetermined explosions	N/K		
	2km S	Heard 22 bursts	Heavy machine-gun	9 November, 11:40	
	3-5km E	Heard 1 undetermined explosion	N/K	9 November, 12:01	
		Heard 1 undetermined explosion		9 November, 12:15-12:20	
	2-3km SE	Heard 11 bursts	Heavy machine-gun	9 November, 12:30-12:35	
	3-5km SE	Heard 1 undetermined explosion	N/K		
	2-3km SE	Heard 5 bursts	Heavy machine-gun		
	3-5km SE	Heard 1 undetermined explosions	N/K		
		Heard 3 undetermined explosions			
	2-3km SE	Heard 8 bursts	Heavy machine-gun		
	3-5km SE	Heard 5 undetermined explosions	N/K		
	1-2km SE	Heard 4 explosions (outgoing)	Mortar (82mm)		
	3-5km SE	Heard 4 undetermined explosions	N/K		9 November, 12:40-12:45
		Heard 12 undetermined explosions			
	2-3km S	Heard 6 explosions (outgoing)	Mortar (N/K calibre)		
	2-3km SSE	Heard 19 undetermined explosions	N/K	9 November, 13:00-13:15	
	3-4km SE	Heard 1 undetermined explosion	N/K	9 November, 13:18	
		Heard 10 single shots	Small arms	9 November, 13:25-12:35	
		Heard 4 explosions (outgoing)	Mortar (82mm)	9 November, 13:40-13:47	
		Heard 2 explosions (impacts)	N/K		
		Heard 3 undetermined explosions			
		Heard 3 explosions (outgoing)	IFV (BMP-1) cannon (73mm)		
		Heard 2 explosions (impacts)	AGL	9 November, 13:52-14:00	
		Heard 30 bursts	Heavy machine-gun		
		Heard 1 explosion (impact)	Recoilless gun (SPG-9)		
		Heard 12 undetermined explosions	N/K		
SMM camera in Avdiivka (government-controlled, 17km N of Donetsk)	3-6km SE	Recorded 1 rocket-assisted projectile in flight from N to S	N/K	9 November, 16:35-16:37	
	4-6km SE	Recorded 2 undetermined explosions			
		Recorded 3 undetermined explosions			
	3-6km SE	Recorded 1 rocket-assisted projectile in flight from N to S			9 November, 16:40-16:47

	4-6km SE	Recorded 3 undetermined explosions			
	3-6km SE	Recorded 1 rocket-assisted projectile in flight from N to S			
	4-6km SE	Recorded 1 undetermined explosion			9 November, 16:47
		Recorded 3 undetermined explosions			9 November, 16:59-17:01
	3-6km SE	Recorded 3 undetermined explosions			9 November, 17:07
		Recorded 1 undetermined explosion			9 November, 17:11-17:17
		Recorded 1 rocket-assisted projectile in flight from N to S			
	4-6km SE	Recorded 6 undetermined explosions			9 November, 17:24
		Recorded 1 rocket-assisted projectile in flight from N to S			
		Recorded 2 undetermined explosions			9 November, 17:28-17:33
		Recorded 3 undetermined explosions			
		Recorded 1 illumination flare			9 November, 17:37-17:48
		Recorded 48 undetermined explosions			
		Recorded 16 rocket-assisted projectiles in flight from N to S			
		Recorded 1 airburst			
		Recorded 2 undetermined explosions			9 November, 17:51
		Recorded 2 undetermined explosions			9 November, 17:55-18:05
		Recorded 11 undetermined explosions			9 November, 18:02-18:04
		Recorded 3 rocket-assisted projectiles in flight from N to S			9 November, 18:09-18:13
		Recorded 9 rocket-assisted projectiles in flight from N to S			9 November, 18:13-18:29
Recorded 4 rocket-assisted projectiles fired from S to N					
Recorded 26 undetermined explosions					
Recorded 2 rocket-assisted projectiles in flight from S to N					
Soledar (government-controlled, 79km N of Donetsk)	5-6km W	Heard 3 explosions (impacts)	Artillery (N/K calibre)	9 November, 12:06-12:08	
		Heard 3 explosions (outgoing)			
Nelipivka (government-controlled, 50km N of Donetsk)	N/K	Heard 3 undetermined explosions	N/K	9 November, 10:40	
Kadiivka (formerly Stakhanov; "LPR"-controlled, 50km W of Luhansk)	10-15km SSW	Heard 300 explosions (both impacts and outgoing)	Artillery	8 November, 18:20-19:34	
	3-4km W	Heard 15 explosions (outgoing)	Artillery		
	2-3km W	Heard 4 explosions (impacts)	Artillery		
	10-20km W	Heard 17 undetermined explosions	Artillery	8 November, 19:52-20:50	
	10km NW	Heard 2 undetermined explosions	N/K	9 November, 13:57	
	10km W	Heard 1 undetermined explosion		9 November, 14:23	
	10-15km SW	Heard 16 explosions (both impacts and outgoing)	Artillery (unknown calibre)	9 November, 15:57	
	15km WSW	Heard over 200 explosions (both impacts and outgoing)		9 November, 16:52-	

	15-20km WSW	Heard over 150 explosions (mostly outgoing, but also impacts)	Artillery	18:30
		Heard about five barrages of incoming artillery fire (15-20 explosions each)		9 November, 17:27-17:35
		Heard 26 undetermined explosions		9 November, 18:09-18:30
	5km W	Heard incoming fire	Artillery	9 November, 18:38
Irmino ("LPR"-controlled, 54km W of Luhansk)	10km W	Heard 2 undetermined explosions	N/K	9 November, 10:05
	10km SW	Heard 4 undetermined explosions	Artillery (unknown calibre)	9 November, 13:15-13:25
Novoaidar (government-controlled, 49km NW of Luhansk)	25km E	Heard 3 undetermined explosions (assessed as live-fire exercise)	SPG	9 November, 10:55-11:00
Kalynove ("LPR"-controlled, 60km W of Luhansk)	10km W	Heard 8 undetermined explosions	N/K	9 November, 11:05-11:15
	5km W	Heard 2 explosions (outgoing)		
	10km WSW	Heard 28 undetermined explosions	N/K	9 November, 11:45-13:00
Pervomaisk ("LPR"-controlled, 58km W of Luhansk)	10km SW	Heard 4 undetermined explosions	N/K	9 November, 11:20-11:35
Popasna (government-controlled, 69km W of Luhansk)	10km S	Heard 10 undetermined explosions	N/K	9 November, 11:40-12:00
	3-5km SE	Heard 50 bursts	Heavy machine-gun	9 November, 14:00-14:15
		Heard about 20 explosions (outgoing)	Grenade launcher	
Heard 10 explosions (impacts)	Mortar (calibre unknown)			
1km NE of Novozvanivka (government-controlled, 70km W of Luhansk)	10-15km SSW	Heard over 10 undetermined explosions	N/K	9 November, 12:40
1km S of Novozvanivka	10-15km SSW	Heard at least 25 undetermined explosions	N/K	9 November, 13:15-13:30
		Heard continuous fire	HMG and BMP-1	
Saryi Aidar (government-controlled, 20km NW of Luhansk)	20-25km SW	Heard 6 undetermined explosions	Artillery	9 November, 12:40-12:50
Trokhizbenka (government-controlled, 32km NW of Luhansk)	5-7km W	Heard 10 undetermined explosions	NK	9 November, 13:15-13:45
		Heard 1 burst	Anti-tank gun (ZU-23)	
Molodizhne ("LPR"-controlled, 63km NW of Luhansk)	5km S	Heard 2 explosions (outgoing)	Mortar (calibre unknown)	9 November, 13:35-13:45
		Heard 4 explosions (outgoing)	Artillery (calibre unknown)	
		Heard 20-30 bursts	Heavy machine-gun	
		Heard 20 explosions (impacts)	AGS	
Government- side of Stanytsia Luhanska bridge (16km NE of Luhansk)	300-400m SSE	Heard 2 shots	Small arms	9 November, 13:45

“LPR”-side of Stanytsia Luhanska bridge (16km NE of Luhansk)	400m NE	Heard 2 shots (the same ones as above)		
Nyzhnie (government-controlled, 56km NW of Luhansk)	N/K SW	Heard 14 undetermined explosions	N/K	9 November, 13:55-14:04

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.)