

**Table of ceasefire violations as of 4 December 2016<sup>1</sup>**

SMM position	Location of event	Observation	Type of weapon/ammunition	Date/time
Park Inn Hotel ("DPR"-controlled, Donetsk city centre)	6-10km NNW	Heard 8 undetermined explosions	N/K	2 December, 21:00-21:04
		Heard 12 undetermined explosions		2 December, 21:13-21:20
		Heard 9 undetermined explosions		2 December, 21:32
		Heard 7 undetermined explosions		2 December, 21:42-21:44
		Heard 3 undetermined explosions		2 December, 21:55
		Heard 6 undetermined explosions		2 December, 22:09
		Heard 10 undetermined explosions		2 December, 22:22
		Heard 4 undetermined explosions		2 December, 22:40
		Heard 3 undetermined explosions		2 December, 22:53
		Heard 12 undetermined explosions		2 December, 23:17-23:22
		Heard 4 undetermined explosions		3 December, 00:05
		Heard 9 undetermined explosions		3 December, 00:18-00:24
		Heard 2 undetermined explosions		3 December, 00:42
	6-8km NW	Heard 1 undetermined explosion		4 December, 01:10
		Heard 1 undetermined explosion		4 December, 02:04
SMM camera in Avdiivka (government-controlled, 17km N of Donetsk)	4-6km SE	Recorded 3 indirect rocket-assisted projectiles in flight from NE to SW	N/K	2 December, 18:56
		Recorded 3 undetermined explosions		2 December, 18:57-19:07
		Recorded 3 undetermined explosions		2 December, 19:23-20:33
		Recorded 1 undetermined explosion		2 December, 20:58
		Recorded 1 tracer of direct fire in flight from E to W		2 December, 21:02
		Recorded 1 undetermined explosion		2 December, 21:10
		Recorded 2 tracers of direct fire in flight from E to W		2 December, 21:50
		Recorded 2 tracers of direct fire in flight from E to W		2 December, 21:56
		Recorded 1 illumination flare		2 December, 22:36
		Recorded 1 tracer of direct fire in flight from E to W		2 December, 22:43
		Recorded 1 undetermined explosion		2 December, 23:23
		Recorded 2 tracers of direct fire in flight from E to W		2 December, 23:29
		Recorded 1 undetermined explosion		2 December, 23:33
		Recorded 1 undetermined explosion		2 December, 23:46
		Recorded 1 tracer of direct fire in flight from E to W		2 December, 23:52
		Recorded 1 undetermined explosion		2 December, 23:58
		Recorded 1 undetermined explosion		3 December, 00:09
		Recorded 4 undetermined explosions		3 December, 00:20-00:31

<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.

		Recorded 2 tracers of direct fire in flight from E to W	3 December, 00:39
		Recorded 2 undetermined explosions	3 December, 00:41
	3-6km ESE	Recorded 1 tracer of direct fire in flight from N to S	3 December, 16:29
		Recorded 4 tracers of direct fire in flight from N to S	3 December, 16:34
		Recorded 5 undetermined explosions	3 December, 16:41
		Recorded 1 tracer of direct fire in flight from S to N	3 December, 16:48
		Recorded 2 tracers of direct fire in flight from S to N	3 December, 16:57
		Recorded 6 projectiles of indirect fire in flight from N to S	3 December, 17:19-17:22
		Recorded 4 undetermined explosions	3 December, 17:25
		Recorded 21 projectiles of indirect fire in flight from NW to SE	3 December, 17:25-17:46
		Recorded 10 undetermined explosions	3 December, 17:55-17:59
		Recorded 8 undetermined explosions	
		4-6km ESE	Recorded 3 undetermined explosions
	Recorded 1 undetermined projectile of indirect fire in flight from N to S		
	Recorded 1 undetermined projectile of indirect fire in flight from NW to SE		3 December, 19:40
	Recorded 2 undetermined projectiles of indirect fire in flight from SW to NE		3 December, 19:58
	Recorded 1 tracer of direct fire in flight from SW to NE		
	Recorded 1 tracer of direct fire in flight from NE to SW		
	Recorded 1 undetermined explosion		3 December, 20:00-20:01
	Recorded 4 tracers of direct fire in flight from S to N		
	Recorded 1 undetermined projectile of indirect fire in flight from NE to SW		3 December, 20:02
	Recorded 1 rocket-assisted projectile in flight from N to S		3 December, 20:07
	Recorded 1 explosion (impact)		
	Recorded 1 undetermined projectile in flight from S to N		3 December, 20:08
	Recorded 1 illumination flare from S to E		
	Recorded 4 tracers of direct fire in flight from S to N		
	Recorded 1 tracer of direct fire in flight from N to S		3 December, 20:09
Recorded 1 undetermined explosion			
Recorded 1 illumination flare from S to E			
Recorded 1 tracer of direct fire in flight from S to N	3 December, 20:19		
Recorded 6 tracers of direct fire in flight from SW to NE	3 December, 20:21		

	Recorded 1 undetermined projectile of indirect fire in flight from N to S		
	Recorded 1 undetermined explosion		3 December, 22:52
	Recorded at least 20 tracers of direct fire in flight from NW to SE		3 December, 22:55
	Recorded 1 undetermined explosion		
	Recorded 1 undetermined explosion		3 December, 23:43
	Recorded 3 undetermined projectiles in flight from N to S		3 December, 23:48
	Recorded at least 20 tracers of direct fire in flight from N to S		3 December, 23:53
	Recorded at least 10 tracers of direct fire in flight from S to N		
	Recorded 2 undetermined explosions		3 December, 23:55
	Recorded 10 tracers of direct fire in flight from S to N		
	Recorded 1 undetermined explosion		4 December, 00:01
	Recorded 2 undetermined explosions		4 December, 00:06
	Recorded 6 undetermined explosions		4 December, 00:15-00:30
	Recorded 3 tracers of direct fire in flight from N to S		4 December, 00:34
	Recorded 2 undetermined explosions		4 December, 00:37
	Recorded 1 undetermined projectile in flight from NW to SE		4 December, 00:38
	Recorded at least 30 tracers of direct fire in flight from S to N		4 December, 00:44
	Recorded at least 10 tracers of direct fire in flight from NW to SE		4 December, 00:47
	Recorded 3 undetermined explosions		4 December, 00:48
	Recorded at least 40 tracers of direct fire in flight from S to N		4 December, 01:02-01:04
	Recorded 3 tracers of direct fire in flight from S to N		4 December, 01:22
	Recorded at least 10 tracers of direct fire in flight from N to S		4 December, 01:23
	Recorded 1 undetermined explosion		4 December, 01:24
	Recorded 1 illumination flare from N to E		4 December, 01:28
	Recorded 2 tracers of direct fire in flight from N to S		
	Recorded 8 tracers of direct fire in flight from NW to SE		4 December, 01:32
	Recorded 3 undetermined projectiles in flight from S to N		4 December, 01:36
	Recorded 5 tracers of direct fire in flight from NW to SE		4 December, 01:41
	Recorded 2 tracers of direct fire in flight from N to S		4 December, 01:48
	Recorded 3 tracers of direct fire in flight from NW to SE		4 December, 01:56
	Recorded 4 tracers of direct fire in flight from NW to SE		4 December, 02:12
	Recorded 1 undetermined explosion		4 December, 02:25

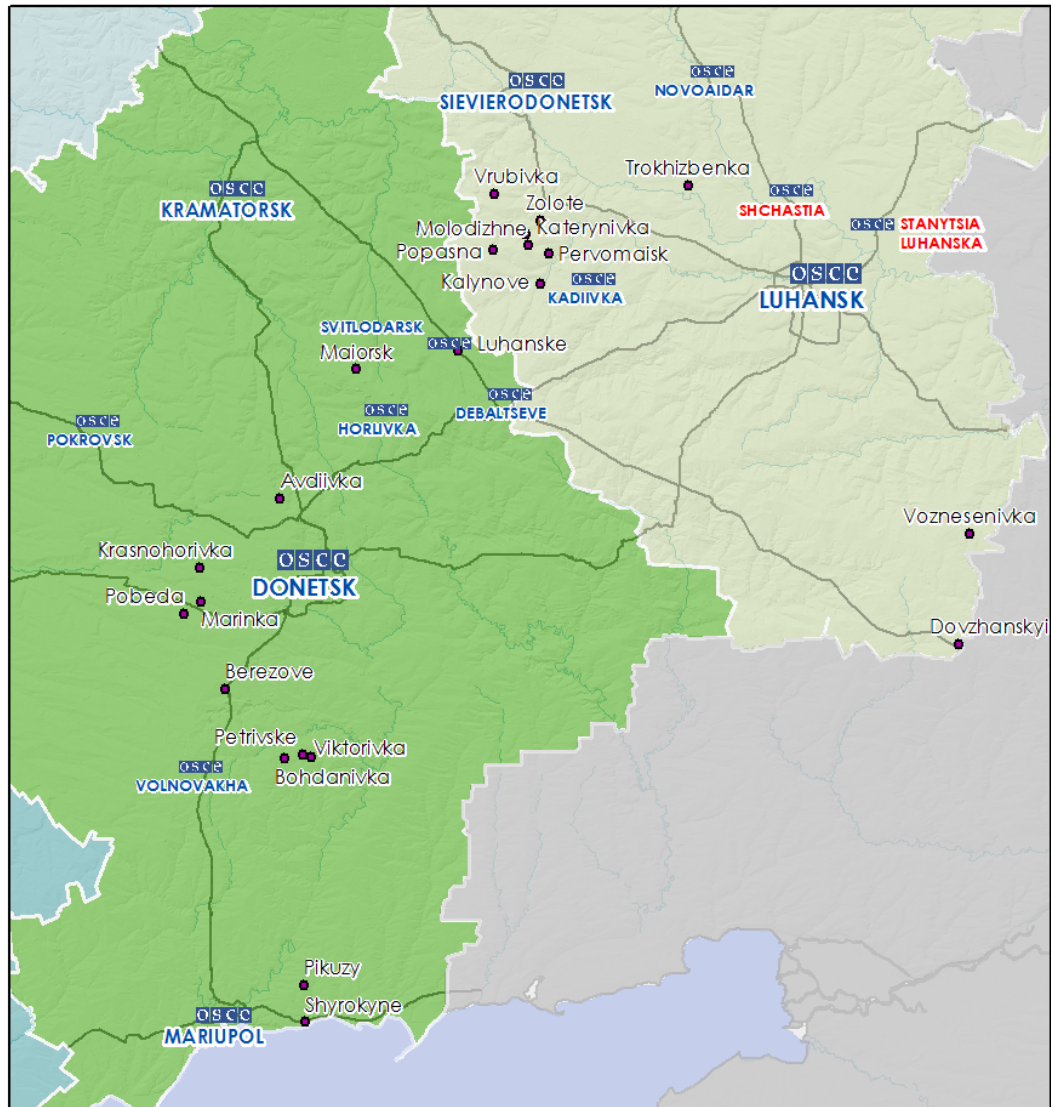
		Recorded 6 tracers of direct fire in flight from N to S		4 December, 02:26		
		Recorded 2 undetermined explosions		4 December, 03:38		
		Recorded at least 20 tracers of direct fire in flight from SW to NE		4 December, 03:39		
		Recorded 1 undetermined explosion		4 December, 03:45		
		Recorded 4 undetermined explosions		4 December, 04:18-04:29		
		Recorded 3 undetermined explosions		4 December, 05:34-05:48		
		Recorded 3 undetermined explosions		4 December, 06:07-06:16		
	3-5km ESE	Recorded 3 projectiles of indirect fire in flight from SW to NE		4 December, 16:22		
		Recorded 1 projectile of indirect fire in flight from SW to NE		4 December, 16:36		
		Recorded 1 projectile of indirect fire in flight from NE to SW		4 December, 16:38		
		Recorded 1 projectile of indirect fire in flight from NE to SW				
	4-6km ESE	Recorded 3 projectiles of indirect fire in flight from NE to SW		4 December, 16:43		
		Recorded 3 tracers on direct fire in flight from NE to SW		4 December, 16:45		
		Recorded 5 projectiles of indirect fire in flight from NE to SW		4 December, 16:50		
		Recorded 1 projectile of indirect fire in flight from NE to SW		4 December, 17:07		
		Recorded 1 projectile of indirect fire in flight from NE to SW		4 December, 17:35		
	3-5km ESE	Recorded 2 projectiles of indirect fire in flight from NE to SW		4 December, 18:08		
		Recorded 2 projectiles of indirect fire in flight from SW to NE		4 December, 18:10		
	SMM camera at Oktiabr mine" (9km NW of Donetsk city centre)	5-7km NE		Recorded 6 tracers of direct fire in flight from W to E	N/K	2 December, 22:24
		6-8km NE		Recorded 1 projectile of indirect fire in flight from N to S		3 December, 17:18
5-7km NE		Recorded 1 illumination flare from NW to SE	3 December, 23:43			
8-10km NE		Recorded 2 projectiles of indirect fire in flight from W to E	4 December, 16:43			
6-8km NE		Recorded 1 undetermined explosion	Recorded 1 airburst	4 December, 16:47-16:48		
		Recorded 1 airburst				
8-10km NE	Recorded 4 projectiles of indirect fire in flight from W to E	4 December, 16:50				
Debaltseve ("DPR"-controlled, 58km NE of Donetsk)	6-8km WNW	Heard 1 burst	HMG	2 December, 22:19		
		Heard uncountable overlapping bursts		2 December, 22:26-22:30		
	8-10km WNW	Heard 9 undetermined explosions	N/K	2 December, 22:32-22:39		
		Heard 2 undetermined explosions		2 December, 22:48		
	6-8km NW	Heard 4 undetermined explosions		3 December, 20:55-20:56		
5-7km NW	Heard 3 undetermined explosions	4 December, 02:26-02:29				
4km W of Yasynuvata ("DPR"-controlled, 16km NE of Donetsk)	5km SE	Heard 1 undetermined explosion		N/K	3 December, 09:56	
		Heard 1 burst	HMG	3 December, 09:58		
		Heard 1 burst	Small arms	3 December, 10:00		
	0.5km NE	Heard 1 shot		3 December, 10:22		

	3km SE	Heard 2 shots	N/K	3 December, 12:05
	0.8km W	Heard 1 shot		3 December, 12:48
	1km S	Heard 1 shot		3 December, 13:01
	3-5km S	Heard 1 undetermined explosion		3 December, 13:34
	3km SE	Heard 1 undetermined explosion		3 December, 13:38
0.6km SE of Kruta Balka (“DPR”-controlled, 16km N of Donetsk)	2-4km WSW	Heard 1 undetermined explosion	N/K	3 December, 13:26
		Heard 1 shot	Small arms	
SMM camera in Shyrokyne (20km E of Mariupol)	N/K N	Recorded 3 explosions (outgoing)	N/K	2 December, 18:37-18:40
		Recorded 7 tracers of direct fire in flight from W to E		3 December, 18:40
		Recorded 1 undetermined explosion		3 December, 20:38
		Recorded 1 undetermined explosion		3 December, 20:40
		Recorded 1 undetermined explosion		3 December, 20:46
		Recorded 1 undetermined explosion		3 December, 20:54
		Recorded 2 tracers of direct fire in flight from E to W		
		Recorded 1 tracer of direct fire in flight from W to E		3 December, 21:17
		Recorded at least 300 bursts of direct tracer fire in flight from W to E		4 December, 17:52-18:08
		Recorded at least 70 bursts of direct tracer fire in flight from E to W		
Novohnativka (government-controlled, 40km S of Donetsk)	0.5km S	Heard 17 shots	Small arms	3 December, 10:55
2.2km S of Sakhanka (“DPR”-controlled, 24km NE of Mariupol)	N/K NW	Heard 3 undetermined explosions	N/K	3 December, 11:10
	1-3km NW	Heard 5 bursts	Small arms	3 December, 11:45
	0.5-1km WNW	Heard 2 bursts	HMG	3 December, 12:03
	5km NW	Heard 2 undetermined explosions	N/K	4 December, 11:37-11:40
Pikuzy (formerly Kominternove, “DPR”-controlled, 23km NE of Mariupol)	1-2km SSW	Heard 10 shots	HMG	3 December, 11:20-11:32
	1-2km NNW	Heard 30 shots		
	200m W	Heard 50 shots		
	N/K N/K	Heard 1 undetermined explosion	N/K	3 December, 11:53
	200-300m N	Heard 1 explosion (outgoing)	Mortar (N/K calibre)	
0.5-1.5km NNW	Heard 20 shots	HMG		
Horlivka (“DPR”-controlled, 39km NE of Donetsk)	4-6km NW	Heard 10 undetermined explosions	N/K	2 December, 18:15-18:30
		Heard 18 undetermined explosions		2 December, 20:05-20:25
		Heard 15 bursts	HMG	2 December, 20:30-20:35
		Heard 15 explosions (outgoing)	Artillery (N/K calibre)	2 December, 20:35-20:45
	4-6km W	Heard uncountable overlapping explosions (outgoing/impacts)	Artillery and mortars (N/K calibre), IFV (BMP-1) cannon or recoilless gun (SPG-9) (73mm)	2 December, 20:45-21:15
		Heard uncountable overlapping bursts and shots	IFV (BMP-2) cannon (30mm) or anti-aircraft gun (ZU-23, 23mm)	
		Heard uncountable overlapping	HMG	

		bursts and shots		
		Heard 4 explosions (outgoing)	Artillery (N/K calibre)	2 December, 21:20-21:25
		Heard 12 explosions (outgoing)	IFV (BMP-1) cannon or recoilless gun (SPG-9) (73mm)	2 December, 21:40-21:43
	3-4km SW	Heard 5 explosions (outgoing)	Artillery (N/K calibre)	2 December, 21:45-21:48
		Heard 6 explosions (impacts)		2 December, 21:55-22:00
		Heard 10 explosions (outgoing)		2 December, 22:00-22:03
		Heard 2 explosions (impacts)	Mortar (120mm)	2 December, 22:05-22:08
		Heard 10 explosions (outgoing)	Artillery (N/K calibre)	2 December, 22:10
		Heard 3 explosions (outgoing)	N/K	2 December, 22:12-22:15
		Heard 3 explosions (outgoing)	N/K	2 December, 22:30
		Heard 3 explosions (outgoing)	N/K	2 December, 22:45
	4-6km W	Heard 12 undetermined explosions	N/K	2 December, 23:00-23:15
	Svitlodarsk (government-controlled, 57km NE of Donetsk)	4-5km SE	Heard 11 bursts	AGL
5-6km SE		Heard 2 undetermined explosions	N/K	2 December, 18:34
4-5km SE		Heard 4 bursts	HMG	2 December, 19:15-19:26
4-5km E		Heard 3 bursts		
4-5km SE		Heard 3 bursts	AGL	
		Heard 2 undetermined explosions	N/K	
4-5km SE		Heard 5 bursts	HMG	
		Heard 3 bursts	Small arms	
4-5km SE		Heard 4 explosions (outgoing)	Recoilless gun (SPG-9, 73mm)	
		Heard 6 bursts	AGL	2 December, 19:33
		Heard 1 explosion (outgoing)	IFV (BMP-1) cannon (73mm)	2 December, 19:45
4-5km E		Heard 7 bursts	HMG	2 December, 20:23
		Heard 6 bursts	Anti-aircraft cannon (ZU-23/2) 23mm	2 December, 20:25
5-6km SE		Heard 3 undetermined explosions	N/K	2 December, 20:30
4-5km SE		Heard 4 bursts	HMG	2 December, 20:39
5-6km SE		Heard 4 undetermined explosions	N/K	2 December, 21:10
		Heard 3 undetermined explosions		2 December, 21:25
		Heard 3 explosions (impacts)	Mortar (82mm)	2 December, 21:27
4-5km SE		Heard 1 explosion (outgoing)	Recoilless gun (SPG-9) 73mm	2 December, 21:30
5-6km SE		Heard 2 explosions (impacts)	Mortar (82mm)	2 December, 21:33
4-5km SE		Heard 3 explosions (outgoing)	Recoilless gun (SPG-9, (73mm)	2 December, 21:37-21:42
5-6km SE		Heard 5 explosions (impacts)	Mortar (82mm)	2 December, 21:43-21:58
5-6km E		Heard 12 bursts	AGL	2 December, 22:03
6-7km E		Heard 8 undetermined explosions	N/K	2 December, 22:07
4-5km E		Heard 64 bursts	AGL	2 December, 22:12-22:30
		Heard 8 bursts	Anti-aircraft cannon (ZU-23/2, 23mm)	2 December, 22:12-22:30
		Heard 53 bursts	HMG	2 December, 22:12-22:30
		Heard 96 bursts	Small arms	
5-6km SE	Heard 4 undetermined explosions	N/K	2 December, 22:45	
Avdiivka (government-controlled, 17km N of Donetsk)	3-6km SE	Heard 1 undetermined explosion	N/K	3 December, 09:30
		Heard 2 undetermined explosions		3 December, 09:42-09:44
	5-8km S	Heard 1 undetermined explosion		3 December, 09:58
Donetsk central railway station	3-5km WNW	Heard 2 undetermined explosions	N/K	4 December, 11:45
	2-4km N	Heard at least 30 shots	Small arms	4 December, 11:50

("DPR"-controlled, 6km NW of Donetsk city centre)	3-5km N	Heard 1 undetermined explosion	N/K	4 December, 13:57
	3-5km WSW	Heard 2 undetermined explosions		4 December, 14:19
Krasnohorivka (government-controlled, 21km W of Donetsk)	1-2km E	Heard 11 undetermined explosions	N/K	4 December, 10:38-10:58
		Heard 6 shots	Small arms	
1.1km ENE of Berdianske (government-controlled, 18 Km E of Mariupol)	N/K N	Heard 1 undetermined explosion	N/K	4 December, 11:29
SMM camera in Stanytsia Luhanska (government-controlled, 16km NE of Luhansk)	800m SSW	Recorded 1 small flash (assessed as inside the disengagement area)	Small arms	1 December, 18:34
	1km SSE	Recorded multiple small flashes, (assessed as inside the disengagement area)	Small arms	1 December, 18:36
	1.6km S	Recorded multiple small flashes, (assessed as inside the disengagement area)	Small arms	1 December, 19:25
	2.1km SSE	Recorded 1 small flash, (outside the disengagement area)	Small arms	1 December, 19:31
	2.2km SSE	Recorded multiple flashes	Small arms	1 December, 19:32
	360m SW	Recorded 1 small flash	Small arms	2 December, 00:54
	450m SSW	Recorded 1 small flash	Small arms	2 December, 02:13
SMM camera in Zolote (60km W of Luhansk)	N/K NNE	Recorded 1 flare	N/K	2 December, 21:27
Zolote-5 ("LPR"-controlled, 60km W of Luhansk)	5km SSW	Heard 12 undetermined explosions	Artillery	3 December, 08:35-09:10
Trokhizbenka (government-controlled, 32km NW of Luhansk)	1.5-2km SW	Heard 6 bursts	HMG	3 December, 09:50-10:07
	1km SW	Heard 5 undetermined explosions	Mortar	3 December, 10:00-10:05
	1.2km SSW	Heard multiple bursts	HMG	3 December, 10:10-10:25
Slovianoserbsk ("LPR"-controlled, 28km NW of Luhansk)	500m N	Heard 3 shots	Small arms	3 December, 11:00
	5-10km W	Heard 1 undetermined explosion	N/K	3 December, 11:03
1km NE of Sokilnyky ("LPR"-controlled, 38km NW of Luhansk)	3km WNW	Heard 1 burst	HMG	4 December, 11:30

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



<sup>2</sup> 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.)