

**Table of ceasefire violations as of 20 November 2017<sup>1</sup>**

SMM position	Location of event	Observation	Type of weapon/ammunition	Date/time
Svitlodarsk (government-controlled, 57km NE of Donetsk)	2-4km SE	Heard 3 bursts	Small arms	19 November, 18:32
		Heard 3 shots		19 November, 18:47
	1-2km S	Heard 22 bursts	HMG	19 November, 19:01-19:15
	1-3km S	Heard 6 explosions (outgoing)	N/K	19 November, 19:11-19:14
		Heard 6 explosions (subsequent impacts)		
	1-2km S	Heard 7 bursts	HMG	19 November, 19:13-19:15
	3-5km SE	Heard 4 bursts	Small arms	19 November, 19:15-19:17
	1-2km SE	Heard 2 shots		19 November, 19:22
	1-2km S	Heard 12 bursts	HMG	19 November, 19:23-19:24
	3-5km SE	Heard 18 shots	Small arms	19 November, 19:25
		Heard 16 bursts		19 November, 19:30-19:33
	1-2km SE	Heard 7 bursts	HMG	19 November, 19:34
	1-2km S	Heard 12 bursts		19 November, 19:35-19:37
	3-5km SE	Heard 24 bursts		19 November, 19:37-19:42
	1-2km SE	Heard 7 bursts		19 November, 19:47-19:49
	3-5km SE	Heard 15 bursts		19 November, 19:53-19:56
	3-5km SE	Heard 1 explosion (outgoing)	N/K	19 November, 19:59
		Heard 1 explosion (subsequent impact)		
	1-2km SE	Heard 8 bursts	HMG	19 November, 20:01-20:02
	3-5km SE	Heard 1 explosion (outgoing)	N/K	19 November, 20:05
	3-5km SE	Heard 1 explosion (subsequent impact)		
	1-2km S	Heard 8 bursts	HMG	19 November, 20:06
	3-5km SE	Heard 6 explosions (outgoing)	AGL	19 November, 20:07
		Heard 6 explosions (impacts)		
	3-5km SE	Heard 26 bursts	HMG	19 November, 20:11-20:15
	4-6km SE	Heard 2 explosions (impacts)	N/K	19 November, 20:15
	3-5km SE	Heard 16 bursts	HMG	19 November, 20:15-20:17
	5-7km SE	Heard 3 explosions (outgoing)	N/K	19 November, 20:17-20:19
		Heard 3 explosions (subsequent impacts)		
	3-5km SE	Heard 35 bursts	HMG	19 November, 20:19-20:22
		Heard 6 explosions (outgoing)	N/K	19 November, 20:21-20:23
		Heard 6 explosions (subsequent impacts)		
	1-2km S	Heard 5 explosions (outgoing)	N/K	19 November, 20:24-20:28
		Heard 5 explosions (subsequent impacts)		
	3-5km SE	Heard 82 bursts	HMG	19 November, 20:24-20:34
	1-3km S	Heard 21 bursts		19 November, 20:35-20:40
	3-5km SE	Heard 5 explosions (outgoing)	N/K	19 November, 20:38-20:41
		Heard 5 explosions (subsequent impacts)		
	1-3km S	Heard 11 bursts	HMG	19 November, 20:39-20:41
	1-3km SE	Heard 7 bursts	Small arms	19 November, 20:46
2-4km SE	Heard 2 undetermined explosions	N/K	19 November, 20:47	
1-2km SE	Heard 10 bursts	HMG	19 November, 20:48	
	Heard 10 bursts		19 November, 20:55	
	Heard 16 bursts	Small arms		
2-4km SE	Heard 2 undetermined explosions	N/K	19 November, 20:57	

<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.

	3-5km S	Heard 1 undetermined explosion			
	1-2km SE	Heard 8 shots	Small arms	19 November, 20:59	
	2-4km SE	Heard 3 undetermined explosions	N/K	19 November, 21:05	
		Heard 8 shots	Small arms	19 November, 21:10	
		Heard 3 bursts		19 November, 21:25	
		Heard 6 shots	N/K	19 November, 21:31	
		Heard 1 undetermined explosion			
	Heard 14 single shots				
	1-2km SE	Heard 6 shots	Small arms	19 November, 21:37	
	2-4km SE	Heard 8 shots		19 November, 21:43	
	3-5km SE	Heard 16 shots		19 November, 21:50-21:58	
	2-4km SE	Heard 3 shots		N/K	19 November, 21:59
		Heard 1 undetermined explosion			
	3-5km SE	Heard 22 bursts	Small arms	19 November, 22:00-22:01	
		Heard 1 undetermined explosion	N/K	19 November, 22:27	
	2-4km SE	Heard 11 shots	Small arms	19 November, 22:28-22:30	
		Heard 8 shots		19 November, 22:38-22:40	
	3-5km SE	Heard 8 bursts	Small arms	20 November, 02:32-02:37	
		Heard 1 undetermined explosion		20 November, 02:47	
		Heard 3 bursts		HMG	20 November, 02:50
		Heard 16 shots		Small arms	20 November, 02:54-03:05
	1-1.5km SE	Heard 1 undetermined explosion	N/K	20 November, 12:10	
	1-2km SE	Heard 2 undetermined explosions		20 November, 13:41	
	2-4km SE	Heard 1 undetermined explosion		20 November, 14:48	
	1-2km SE	Heard 4 bursts	HMG	20 November, 14:51	
	3-5km SE	Heard 10 explosions (impacts)	Mortar (82mm)	20 November, 16:12-16:18	
		Heard 55 bursts	HMG		
		Heard 1 undetermined explosion	N/K	20 November, 16:35	
		Heard 1 undetermined explosion		20 November, 16:45	
	Heard 1 undetermined explosion	20 November, 16:47			
4-6km SE	Heard 6 bursts	HMG	20 November, 16:56		
2-3km SE	Heard 23 bursts	Small arms	20 November, 17:48-17:51		
	Heard 23 bursts		20 November, 17:55		
SMM camera in Avdiivka (government-controlled, 17km N of Donetsk)	3-5km ESE	Recorded 1 undetermined explosion	N/K	19 November, 19:32	
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	0.5-1.5km S	Recorded 1 undetermined explosion	N/K	19 November, 18:26	
		Recorded 1 tracer from E to W		19 November, 18:29	
		Recorded 7 tracers from E to W		19 November, 18:30	
		Recorded 3 tracers from E to W		19 November, 18:31	
		Recorded 1 undetermined explosion		19 November, 18:31	
		Recorded 1 tracer from W to E		19 November, 18:35	
		Recorded 1 undetermined explosion		19 November, 18:40	
		Recorded 1 undetermined explosion		19 November, 18:41	
		Recorded 2 tracers from E to W		19 November, 18:43	
		Recorded 1 undetermined explosion		19 November, 18:45	
		Recorded 6 tracers from E to W		19 November, 18:48	
		Recorded 2 undetermined explosions		19 November, 18:49	
		Recorded 3 undetermined explosions		19 November, 19:02	
		Recorded 4 tracers from E to W		19 November, 19:24	
		Recorded 2 undetermined explosions		19 November, 19:32	
		Recorded 1 undetermined explosion		19 November, 19:38	
		Recorded 4 tracers from E to W		19 November, 19:39	
		Recorded 1 tracer from E to W		19 November, 20:23	
		Recorded 4 projectiles from SE to NW		19 November, 20:24	
		Recorded 1 projectile from SE to NW		19 November, 20:25	
		Recorded 2 undetermined explosions		19 November, 20:25	
		Recorded 1 undetermined explosion		19 November, 20:25	
		Recorded 1 projectile from SE to NW		19 November, 20:30	
Recorded 5 projectiles from SE to	19 November, 20:30				

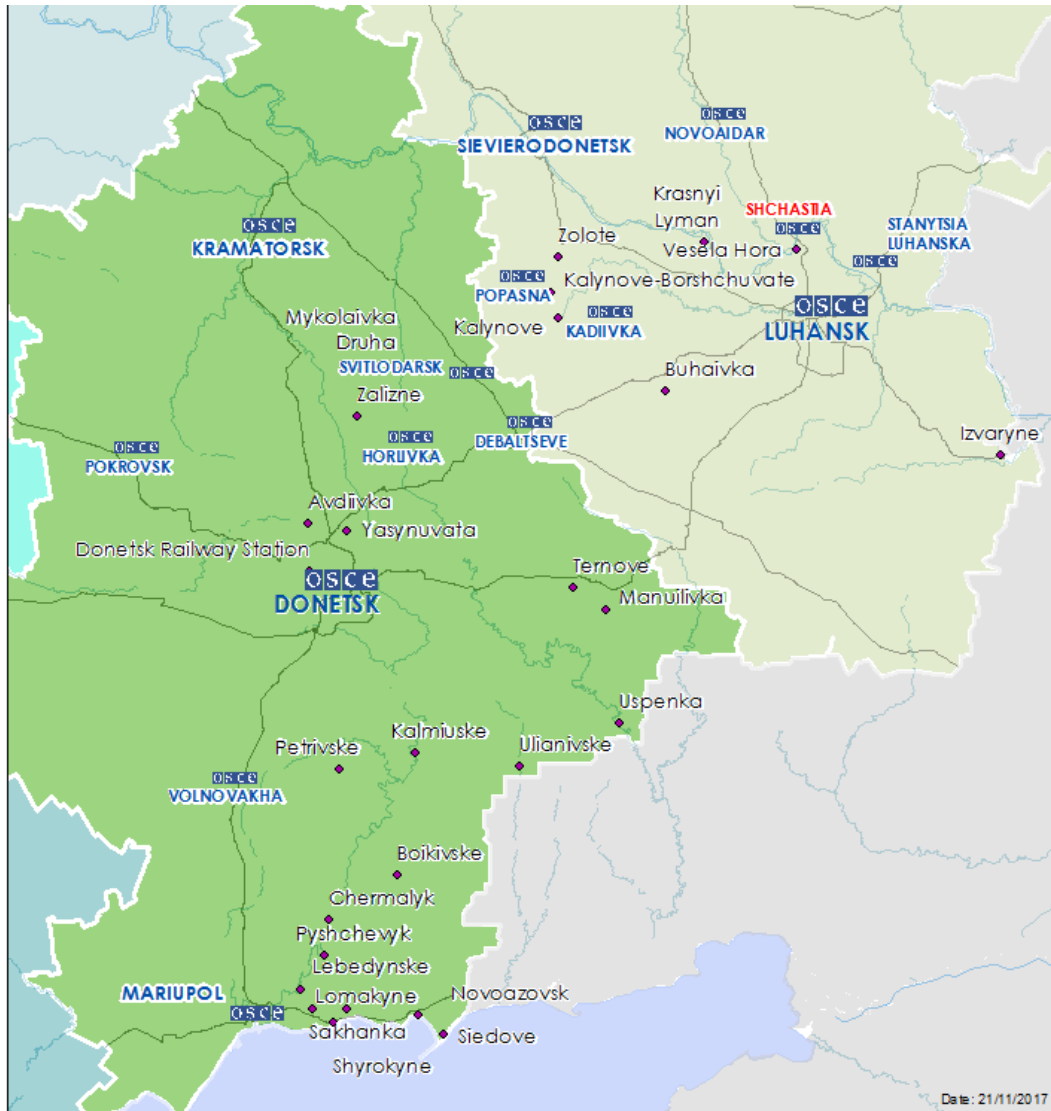
		NW		19 November, 20:31	
		Recorded 2 undetermined explosions			
		Recorded 6 projectiles from SE to NW			
		Recorded 4 undetermined explosions			
		Recorded 5 projectiles from SE to NW			
		Recorded 2 undetermined explosions			
		Recorded 7 projectiles from SE to NW			
		Recorded 1 undetermined explosion			
		Recorded 1 projectile from E to W			
		Recorded 1 undetermined explosion			
		Recorded 4 undetermined explosions			
		Recorded 4 projectiles from E to W			
		Recorded 1 undetermined explosion			
		Recorded 1 undetermined explosion			
		Recorded 2 undetermined explosions			
		Recorded 3 projectiles from E to W			
		Recorded 1 undetermined explosion			
		Recorded 1 undetermined explosion			
		Recorded 1 undetermined explosion			
		Recorded 1 undetermined explosion			
Recorded 2 undetermined explosions					
Recorded 2 projectiles in vertical flight					
SMM camera in Petrivske (“DPR”-controlled, 41km S of Donetsk city centre)	1-2km SW	Recorded 2 tracers from W to E (assessed as inside the disengagement area)	N/K	17 November, 23:44	
	0.8-1km WSW	Recorded 2 tracers from S to N (assessed as inside the disengagement area)		18 November, 00:26	
Railway station in Yasynuvata (“DPR”-controlled, 16km NE of Donetsk)	2-4km WSW	Heard 1 undetermined explosion	N/K	20 November, 09:40	
		Heard 3 undetermined explosions		20 November, 09:53-10:00	
	Heard 10 undetermined explosions	20 November, 10:05-10:24			
	Heard 2 undetermined explosions	N/K		20 November, 10:43-10:49	
	Heard 6 shots	Small arms		20 November, 10:54	
	Heard 10 undetermined explosions	N/K		20 November, 11:15-11:32	
	Heard 6 bursts	Small arms			
	2-4km W	Heard 14 undetermined explosions		N/K	20 November, 11:42-12:00
		Heard 3 bursts		HMG	
		Heard 6 bursts		Small arms	
		Heard 11 shots			
		Heard 3 undetermined explosions		N/K	20 November, 13:05-13:30
		Heard 66 bursts		HMG	
		Heard 24 shots		Small arms	20 November, 13:31-13:50
	Heard 19 shots				
SW edge of Avdiivka (government-controlled, 17km N of Donetsk)	2-3km E	Heard 11 undetermined explosions	N/K	20 November, 09:58-10:30	
	2-4km S	Heard 5 undetermined explosions		HMG	20 November, 10:48-11:20
		Heard 14 bursts			
		Heard 9 bursts			
	2-3km S	Heard 17 shots	Small arms		
		Heard 15 undetermined explosions	N/K	20 November, 11:28-11:47	
		Heard 4 shots	IFV (BMP-2) cannon (30mm)		
	Heard 3 bursts	HMG			
	1-3km S	Heard 2 explosions (outgoing)	N/K	20 November, 11:43	
	5-6km S	Heard 2 explosions (subsequent impacts)			
	2-3km S	Heard 5 undetermined explosions	N/K	20 November, 12:05-12:28	
		Heard 8 undetermined explosions			
		Heard 5 bursts		HMG	20 November, 13:19-13:45

		Heard 7 shots	Small arms	20 November, 13:57
	3-4km SW	Heard 4 undetermined explosions	N/K	
	1-3km S	Heard 3 undetermined explosions	N/K	
		Heard 4 bursts	HMG	
		Heard 8 shots	Small arms	
	3-5km SW	Heard 23 undetermined explosions	N/K	
Heard 29 bursts		HMG		
4-5km SW	Heard 2 undetermined explosions	N/K	20 November, 14:06-14:27	
20 November, 14:53				
Oleksandrivka ("DPR"-controlled, 20km SW of Donetsk)	2-4km NW	Heard 2 undetermined explosions	N/K	20 November, 10:50
1km NW of entry exit checkpoint near Pyshevyk (government-controlled, 25km NE of Mariupol)	5km SSE	Heard 21 undetermined explosions	N/K	20 November, 09:14-09:27
	5km SE	Heard 1 undetermined explosion	N/K	
	N/K SSE	Heard 2 undetermined explosions	Small arms	20 November, 09:50-10:00
	N/K SE	Heard 6 undetermined explosions		
	N/K	Heard 1 burst Heard 3 shots		
	N/K SSE	Heard 18 undetermined explosions	Artillery (type N/K)	20 November, 13:49-14:15
	N/K NNE	Heard 17 bursts	Small arms	
		Heard 4 shots		
	N/K E	Heard 3 undetermined explosions	Mortar (type N/K)	20 November, 14:40-14:42
	N/K SSE	Heard 3 undetermined explosions	N/K	
	N/K NNE	Heard 22 shots	Small arms	20 November, 14:52
Heard 1 burst		HMG		
2km SW of Pyshevyk (government-controlled, 25km NE of Mariupol)	N/K ESE	Heard 1 undetermined explosion	N/K	20 November, 10:10-1014
		Heard 3 bursts	HMG	
	N/K ESE	Heard 2 undetermined explosions	N/K	20 November, 10:30-10:57
	N/K SSE	Heard 8 bursts (80-100 rounds each)	HMG	
	N/K NNE	Heard 5 single shots	Small arms	
	N/K SSE	Heard 1 undetermined explosion	N/K	20 November, 11:05-11:07
	4km S	Heard 4 single shots	Small arms	
	3km SSE	Heard 4 bursts		
	N/K SE	Heard 14 undetermined explosions	N/K	20 November, 13:50-14:15
	N/K S	Heard 2 undetermined explosions		
	N/K E	Heard 1 undetermined explosion		
	N/K N	Heard 5 bursts	HMG	20 November, 13:50-14:15
	N/K NE	Heard 3 undetermined explosions	N/K	
Bohdanivka (government-controlled, 41km S of Donetsk)	N/K E	Heard 1 undetermined explosion	N/K	20 November, 10:05
3km NE of Zaichenko ("DPR"-controlled, 26km NE of Mariupol)	N/K SSW	Heard 5 undetermined explosions	N/K	20 November, 11:28-11:32
2.5km SSE of Lomakyne (government-controlled, 15km NE of Mariupol)	1.5km ESE	Heard 5 undetermined explosions	N/K	20 November, 11:46-11:48
		Heard 8 bursts	HMG	
		Heard at least 50 bursts	Small arms	
	N/K SE	Heard 28 bursts		
N/K E	Heard 2 bursts		20 November, 11:55-12:15	
2km SE of Lebedynske (government-controlled, 15km NE of Mariupol)	N/K NE	Heard 85 shots	Small arms	20 November, 12:43-12:58
		Heard 12 bursts	HMG	
		Heard 1 shot	AGL	
		Heard 13 undetermined explosions	N/K	
	N/K E	Heard 1 shot	Small arms	
	N/K NW	Heard 2 undetermined explosions	N/K	
	N/K NNE	Heard 1 undetermined explosion		
3km SW of Chermalyk (government-controlled, 31km NE of Mariupol)	3-5km NNE	Heard 1 explosion (outgoing)	N/K	20 November, 12:21
	N/K SE	Heard 1 undetermined explosion		20 November, 13:09
	3km SSE	Heard 28 explosions (outgoing)	Artillery (type N/K)	20 November, 13:17-13:18
		Heard 17 undetermined explosions	N/K	20 November, 13:19-13:25

Novolaspa (“DPR”-controlled, 50km S of Donetsk)	N/K SSW	Heard 2 undetermined explosions	N/K	20 November, 12:40
2km SE of Sakhanka (“DPR”-controlled, 26km NE of Mariupol)	N/K NW	Heard 3 undetermined explosions	N/K	20 November, 13:18-13:30
Boikivske (formerly Telmanove, “DPR”-controlled, 67km SE of Donetsk)	N/K W	Heard 25 undetermined explosions	N/K	20 November, 13:27-13:40
Horlivka (“DPR”-controlled, 39km NE of Donetsk)	2-3km SW	Heard 1 undetermined explosion	N/K	20 November, 10:52
		Heard 1 undetermined explosion		20 November, 11:15
SMM camera in Shyrokyne (20km E of Mariupol)	5-8km N	Recorded 1 projectile from W to E	N/K	20 November, 16:27
		Recorded 1 undetermined explosion		20 November, 16:37
		Recorded 1 undetermined explosion		20 November, 16:49
		Recorded 1 undetermined explosion		20 November, 17:26
		Recorded 1 undetermined explosion		20 November, 18:30
SMM camera at Prince Ihor Monument SE of Stanytsia Luhanska bridge (15km NE of Luhansk)	1.5-2km N	Recorded 1 undetermined explosion (assessed as inside the disengagement area)	N/K	19 November, 20:48
SMM camera in Stanytsia Luhanska (government-controlled, 16km NE of Luhansk)	1-2km S	Recorded 1 undetermined explosion (assessed as inside the disengagement area)	N/K	19 November, 20:45
		Recorded 20-30 bursts (assessed as inside the disengagement area)	Small arms	19 November, 20:45-46
E edge of Stanytsia Luhanska (government-controlled, 16km NE of Luhansk)	1-2km SW-SE	Heard 25 bursts (assessed as outside the disengagement area)	Small arms	19 November, 19:38-20:03
		Heard 148 bursts (assessed as outside the disengagement area)	Small arms	19 November, 20:17-20:50
		Heard 5 undetermined explosions (assessed as outside the disengagement area)	N/K	
100m N of Stanytsia Luhanska bridge (15km NE of Luhansk)	5km W	Heard 1 undetermined explosion (assessed as outside the disengagement area)	N/K	20 November, 13:20
Popasna (government-controlled, 69km W of Luhansk)	6-7km SE	Heard 8 undetermined explosions	N/K	19 November, 19:15-19:20
		Heard 3 bursts	HMG	
		Heard 7 bursts	IFV (BMP-2) cannon	
		Heard 1 undetermined explosion	Mortar (82mm)	19 November, 19:26-19:31
		Heard 4 bursts	HMG	
	5-6km SE	Heard 8 bursts	Small arms	19 November, 22:08-22:10
	7-8km SSE	Heard 7 undetermined explosions	Mortar (type N/K)	19 November, 22:48-22:53
	4-5km SE	Heard 3 shots	Small arms	20 November, 14:12
Kadiivka (formerly Stakhanov, “LPR”-controlled, 50km W of Luhansk)	10-15km W	Heard 25 bursts	HMG	19 November, 17:47-18:05
	10-12km W	Heard 5 bursts	HMG	19 November, 17:51
	12-15km W	Heard 4 undetermined explosions	N/K	19 November, 19:44-19:48
		Heard 6 bursts	HMG	
Sieverodonetsk (government-controlled, 74km NW of Luhansk)	15km ESE	Heard 60 undetermined explosions	N/K	19 November, 22:08-22:18
S edge of Kalynove (“LPR”-controlled, 60km W of Luhansk)	5km SW	Heard 12 bursts	HMG	20 November, 09:05-09:20
Shchastia (government-controlled, 20km N of Luhansk)	1-2km SSW	Heard 70 shots	Small arms	20 November, 11:55-12:12
		Heard 40 bursts	HMG	

N edge of Kalynove-Borshchuvate ("LPR"-controlled, 61km W of Luhansk)	4-6km SW	Heard 1 undetermined explosion	N/K	20 November, 14:11
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## 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.)