

**Table of ceasefire violations as of 19 December 2017<sup>1</sup>**

SMM position	Location of event	Observation	Type of weapon/ammunition	Date/time	
Svitlodarsk (government-controlled, 57km NE of Donetsk)	3-5km ESE	Heard 21 undetermined explosions	N/K	18 December, 19:06	
	3-5km SE	Heard 9 shots	Small arms	18 December, 19:44	
		Heard 7 undetermined explosions		18 December, 19:45	
	3-5km SSE	Heard 5 undetermined explosions	N/K	18 December, 19:45-19:48	
	3-5km SE	Heard 7 undetermined explosions		18 December, 19:48-19:53	
	3-5km ESE	Heard 12 undetermined explosions		18 December, 19:54-20:01	
	3-5km SE	Heard 7 undetermined explosions		18 December, 20:11	
		Heard 4 undetermined explosions		18 December, 20:15	
	5-7km SE	Heard 5 undetermined explosions		Small arms	18 December, 20:22
	3-5km SE	Heard 5 bursts		N/K	18 December, 20:18-20:30
		Heard 11 undetermined explosions		18 December, 20:40	
		Heard 14 undetermined explosions	HMG	18 December, 20:41	
		Heard 4 bursts	N/K	18 December, 20:48	
	Heard 7 undetermined explosions	18 December, 20:53			
	2-3km SE	Heard 5 undetermined explosions		18 December, 21:02	
	1-5km SE	Heard and saw 8 undetermined explosions	N/K	18 December, 21:11	
	2-5km SE	Heard and saw 18 undetermined explosions		18 December, 21:12	
	3-5km SE	Heard 6 bursts	HMG	18 December, 21:21	
	2-3km SE	Heard 9 undetermined explosions	N/K	18 December, 21:24	
	5-7km SW	Heard 3 undetermined explosions		18 December, 21:26	
	2-3km SE	Heard 4 undetermined explosions		18 December, 21:33	
	2-3km SW	Heard 4 undetermined explosions		MLRS (BM-21 Grad, 122mm)	18 December, 21:55
	2-3km SE	Heard and saw 21 explosions (outgoing)	N/K	18 December, 22:29	
Heard 5 undetermined explosions		18 December, 22:38			
5-7km SW	Heard 5 undetermined explosions	N/K	19 December, 14:44-14:52		
3-7km SW	Heard 14 undetermined explosions		19 December, 14:58-15:01		
	Heard 8 undetermined explosions				
SMM camera in Avdiivka (government-controlled, 17km N of Donetsk)	3-5km SE	Recorded 1 airburst	N/K	18 December, 18:33	
		Recorded 1 airburst		18 December, 18:34	
		Recorded 1 airburst		18 December, 18:35	
		Recorded 2 tracers from E to W		19 December, 15:58	
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	0.1-1.5km S	Recorded 1 projectile from E to W	N/K	18 December, 17:03	
		Recorded 1 undetermined explosion			
		Recorded 1 projectile in vertical flight			
		Recorded 14 projectiles from E to W			
		Recorded 1 projectile from W to E			
		Recorded 1 airburst			
		Recorded 1 undetermined explosion			
		Recorded 13 projectiles from E to W			
		Recorded 2 projectiles from W to E			
		Recorded 1 projectile from E to W			
		Recorded 1 undetermined explosion			
		Recorded 1 projectile from E to W			
		Recorded 1 projectile from E to W			
		Recorded 1 projectile from E to W			
		Recorded 1 undetermined explosion			
		Recorded 4 projectiles from E to W			
Recorded 6 projectiles from E to W					

<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 1 undetermined explosion	18 December, 19:42
		Recorded 1 projectile from E to W	18 December, 19:43
		Recorded 1 projectile from W to E	18 December, 19:44
		Recorded 1 projectile from E to W	18 December, 20:30
		Recorded 1 projectile from E to W	18 December, 20:43
		Recorded 1 undetermined explosion	18 December, 20:57
		Recorded 2 projectiles from E to W	18 December, 21:07
		Recorded 2 projectiles from E to W	18 December, 21:11
		Recorded 1 projectile from W to E	18 December, 21:12
		Recorded 1 projectile from E to W	18 December, 21:27
		Recorded 1 undetermined explosion	18 December, 21:40
		Recorded 3 projectiles from W to E	18 December, 21:41
		Recorded 1 projectile from W to E	18 December, 21:42
		Recorded 1 projectile from E to W	18 December, 22:12
		Recorded 17 projectiles from W to E	18 December, 22:24
		Recorded 1 projectile from E to W	
		Recorded 1 undetermined explosion	
		Recorded 11 projectiles from W to E	18 December, 22:28
		Recorded 12 projectiles from W to E	18 December, 22:29
		Recorded 2 undetermined explosions	
		Recorded 4 projectiles from E to W	18 December, 22:30
		Recorded 9 projectiles from W to E	
		Recorded 1 projectile from E to W	18 December, 22:31
		Recorded 1 undetermined explosion	18 December, 22:32
		Recorded 3 projectiles from W to E	18 December, 22:33
		Recorded 1 projectile from E to W	18 December, 22:34
		Recorded 14 projectiles from W to E	18 December, 22:37
		Recorded 1 projectile from E to W	
		Recorded 6 projectiles from E to W	18 December, 22:38
		Recorded 1 projectile from W to E	
		Recorded 7 projectiles from W to E	18 December, 22:39
		Recorded 1 projectile from E to W	18 December, 22:40
		Recorded 1 projectile from W to E	
		Recorded 2 projectiles from W to E	18 December, 22:42
		Recorded 1 projectile from W to E	18 December, 22:43
		Recorded 3 projectiles from W to E	18 December, 22:44
		Recorded 3 projectiles from E to W	
		Recorded 5 projectiles from W to E	18 December, 23:05
		Recorded 2 projectiles from E to W	18 December, 23:08
		Recorded 3 projectiles from W to E	18 December, 23:10
		Recorded 2 projectiles from W to E	18 December, 23:21
		Recorded 2 projectiles from E to W	18 December, 23:32
		Recorded 1 projectile from W to E	18 December, 23:34
		Recorded 1 projectile from E to W	18 December, 23:36
		Recorded 1 undetermined explosion	18 December, 23:37
		Recorded 3 projectiles from W to E	18 December, 23:53
		Recorded 3 projectiles from W to E	18 December, 23:55
		Recorded 1 projectile from W to E	18 December, 23:56
		Recorded 12 projectiles from W to E	19 December, 00:03
		Recorded 5 projectiles from W to E	19 December, 00:15
		Recorded 5 projectiles from W to E	19 December, 00:16
		Recorded 1 undetermined explosion	
		Recorded 4 projectiles from E to W	19 December, 00:17
		Recorded 1 undetermined explosion	
		Recorded 2 projectiles from W to E	19 December, 00:18
		Recorded 11 projectiles from W to E	19 December, 00:19
		Recorded 11 projectiles from W to E	19 December, 00:20
		Recorded 21 projectiles from W to E	19 December, 00:21
		Recorded 7 projectiles from W to E	19 December, 00:22
		Recorded 1 projectile from W to E	19 December, 00:24
		Recorded 1 projectile from E to W	19 December, 00:27
		Recorded 2 projectiles from E to W	19 December, 00:28
		Recorded 11 projectiles from E to W	19 December, 00:33
		Recorded 1 projectile from E to W	19 December, 00:37

	Recorded 1 projectile from W to E	19 December,00:56
	Recorded 2 projectiles from W to E	19 December, 01:01
	Recorded 1 projectile from W to E	19 December, 01:02
	Recorded 1 projectile from E to W	19 December, 01:36
	Recorded 1 undetermined explosion	
	Recorded 5 projectiles from E to W	19 December, 01:37
	Recorded 6 projectiles from W to E	19 December, 01:55
	Recorded 3 projectiles from E to W	19 December, 02:05
	Recorded 1 projectile from W to E	
	Recorded 5 projectiles from E to W	19 December, 02:07
	Recorded 7 projectiles from E to W	19 December, 02:08
	Recorded 1 projectile from W to E	
	Recorded 1 projectile from W to E	19 December, 02:10
	Recorded 1 projectile from W to E	19 December, 02:11
	Recorded 4 projectiles from E to W	19 December, 02:18
	Recorded 1 projectile from E to W	19 December, 02:20
	Recorded 1 undetermined explosion	
	Recorded 6 projectiles from E to W	19 December, 02:28
	Recorded 1 projectile from W to E	19 December, 02:36
	Recorded 1 projectile from W to E	19 December, 02:38
	Recorded 3 projectiles from E to W	19 December, 02:41
	Recorded 3 projectiles from E to W	19 December, 02:42
	Recorded 3 undetermined explosions	
	Recorded 2 projectiles from W to E	
	Recorded 10 projectiles from E to W	19 December, 02:43
	Recorded 1 undetermined explosion	
	Recorded 2 projectiles from W to E	19 December, 02:44
	Recorded 1 undetermined explosion	
	Recorded 1 undetermined explosion	19 December, 02:47
	Recorded 1 undetermined explosion	19 December, 02:50
	Recorded 2 projectiles from E to W	19 December, 02:51
	Recorded 1 projectile from E to W	19 December, 02:52
	Recorded 2 projectiles from W to E	
	Recorded 1 undetermined explosion	
	Recorded 6 projectiles from E to W	19 December, 02:54
	Recorded 1 undetermined explosion	19 December, 02:55
	Recorded 1 undetermined explosion	19 December, 03:00
	Recorded 1 undetermined explosion	19 December, 03:07
	Recorded 3 projectiles from E to W	19 December, 03:32
	Recorded 1 projectile from E to W	19 December, 03:34
	Recorded 1 undetermined explosion	19 December, 03:36
	Recorded 2 projectiles from W to E	19 December, 03:55
	Recorded 1 projectile from E to W	19 December, 03:56
	Recorded 4 projectiles from E to W	19 December, 03:57
	Recorded 3 projectiles from W to E	
	Recorded 1 projectile from E to W	19 December, 03:58
	Recorded 1 projectile from W to E	
	Recorded 2 projectiles from W to E	19 December, 04:09
	Recorded 1 projectile from E to W	19 December, 04:11
	Recorded 12 projectiles from W to E	19 December, 04:12
	Recorded 15 projectiles from W to E	19 December, 04:13
	Recorded 2 projectiles from E to W	19 December, 04:19
	Recorded 1 projectile from E to W	19 December, 04:20
	Recorded 1 projectile from E to W	19 December, 04:24
	Recorded 5 projectiles from E to W	19 December, 04:26
	Recorded 3 projectiles from W to E	19 December, 04:27
	Recorded 9 projectiles from W to E	19 December, 04:28
	Recorded 1 projectile from E to W	19 December, 04:29
	Recorded 3 projectiles from E to W	19 December, 04:32
	Recorded 7 projectiles from W to E	19 December, 04:34
	Recorded 9 projectiles from E to W	19 December, 04:35
	Recorded 1 projectile from E to W	19 December, 04:36
	Recorded 7 projectiles from W to E	19 December, 04:37
	Recorded 1 projectile from E to W	

		Recorded 4 projectiles from E to W		19 December, 04:39
		Recorded 25 projectiles from W to E		19 December, 04:40
		Recorded 8 projectiles from E to W		19 December, 04:41
		Recorded 8 projectiles from W to E		
		Recorded 2 projectiles from W to E		19 December, 04:45
		Recorded 2 projectiles from W to E		19 December, 04:51
		Recorded 2 projectiles from E to W		19 December, 04:54
		Recorded 1 projectile from E to W		19 December, 04:56
		Recorded 6 projectiles from E to W		19 December, 05:07
		Recorded 1 projectile from E to W		19 December, 05:08
		Recorded 1 undetermined explosion		19 December, 05:10
		Recorded 1 projectile from E to W		19 December, 05:13
		Recorded 4 projectiles from W to E		19 December, 05:59
		Recorded 26 projectiles from E to W		19 December, 15:57
		Recorded 8 projectiles from E to W		19 December, 15:58
		Recorded 8 undetermined explosions		
		Recorded 31 projectiles from E to W		19 December, 16:03-16:05
		Recorded 1 projectile from W to E		
		Recorded 10 projectiles from E to W		19 December, 17:00
		Recorded 21 projectiles from E to W		19 December, 17:01
		Recorded 1 projectile from E to W		19 December, 17:22
		Recorded 1 airburst		19 December, 17:28
SMM camera at the entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)	2-4km SE	Recorded 3 undetermined explosions	N/K	18 December, 20:06
SMM camera at the entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	2-4km SE	Recorded 9 projectiles from N to S		18 December, 18:10
		Recorded 1 projectile from S to N		
		Recorded 1 undetermined explosion		18 December, 18:52
		Recorded 1 projectile from N to S		18 December, 19:00
		Recorded 1 undetermined explosion		
		Recorded 1 undetermined explosion		18 December, 19:01
		Recorded 2 undetermined explosions		18 December, 19:14
		Recorded 4 undetermined explosions		18 December, 19:20
		Recorded 2 undetermined explosions		18 December, 19:21
		Recorded 4 undetermined explosions		18 December, 19:22
		Recorded 9 undetermined explosions		18 December, 19:23
		Recorded 2 undetermined explosions		18 December, 19:24
		Recorded 5 undetermined explosions		18 December, 19:25
		Recorded 9 undetermined explosions		18 December, 19:26
		Recorded 1 undetermined explosion		18 December, 19:27
		Recorded 3 undetermined explosions		18 December, 19:29
		Recorded 1 undetermined explosion		18 December, 19:30
		Recorded 5 undetermined explosions	N/K	18 December, 19:31
		Recorded 6 undetermined explosions		18 December, 19:32
		Recorded 2 projectiles from N to S		
		Recorded 3 projectiles from N to S		18 December, 19:33
		Recorded 6 undetermined explosions		
		Recorded 1 undetermined explosion		18 December, 19:35
		Recorded 10 undetermined explosions		18 December, 19:36
		Recorded 3 undetermined explosions		18 December, 19:37
		Recorded 7 undetermined explosions		18 December, 19:38
		Recorded 8 undetermined explosions		18 December, 19:39
		Recorded 4 undetermined explosions		18 December, 19:40
		Recorded 2 undetermined explosions		18 December, 19:41
		Recorded 6 undetermined explosions		18 December, 19:42
		Recorded 4 undetermined explosions		18 December, 19:43
		Recorded 6 undetermined explosions		18 December, 19:44
		Recorded 4 undetermined explosions		18 December, 19:45
		Recorded 3 undetermined explosions		18 December, 19:46

		Recorded 3 undetermined explosions		18 December, 19:47
		Recorded 2 undetermined explosions		18 December, 19:49
		Recorded 5 undetermined explosions		18 December, 19:50
		Recorded 6 undetermined explosions		18 December, 19:51
		Recorded 1 undetermined explosion		18 December, 19:52
		Recorded 1 undetermined explosion		18 December, 19:54
		Recorded 2 undetermined explosions		18 December, 19:55
		Recorded 6 undetermined explosions		18 December, 19:56
		Recorded 3 undetermined explosions		18 December, 20:06
		Recorded 1 undetermined explosion		18 December, 20:07
		Recorded 1 undetermined explosion		18 December, 20:50
		Recorded 2 undetermined explosions		18 December, 20:51
		Recorded 2 undetermined explosions		18 December, 20:53
		Recorded 1 undetermined explosion		18 December, 20:54
		Recorded 1 undetermined explosion		18 December, 21:01
		Recorded 1 projectile from N to S		18 December, 21:08
		Recorded 4 projectiles from N to S		18 December, 21:09
		Recorded 4 projectiles from S to N		
		Recorded 1 undetermined explosion		
		Recorded 3 projectiles from N to S		18 December, 21:10
		Recorded 3 projectiles from S to N		
		Recorded 1 projectile from S to N		18 December, 21:11
		Recorded 1 undetermined explosion		
		Recorded 1 undetermined explosion		18 December, 21:12
		Recorded 3 projectiles from S to N		18 December, 21:19
		Recorded 3 undetermined explosions		
		Recorded 1 undetermined explosion		18 December, 21:24
		Recorded 5 projectiles from N to S		18 December, 21:28
		Recorded 2 projectiles from N to S		18 December, 21:29
		Recorded 1 projectile from N to S		18 December, 21:32
		Recorded 1 projectile from S to N		18 December, 21:45
		Recorded 2 projectiles from S to N		18 December, 21:48
		Recorded 1 projectile from N to S		18 December, 21:49
		Recorded 4 projectiles from N to S		18 December, 21:51
		Recorded 2 projectiles from S to N		
		Recorded 2 projectiles from N to S		18 December, 21:52
		Recorded 40 projectiles from N to S		18 December, 21:54
		Recorded 1 projectile from N to S		18 December, 22:07
		Recorded 8 projectiles from N to S		18 December, 22:15
		Recorded 2 projectiles from N to S		18 December, 22:16
		Recorded 1 undetermined explosion		18 December, 22:33
		Recorded 3 undetermined explosions		18 December, 22:35
		Recorded 1 undetermined explosion		18 December, 22:36
		Recorded 1 undetermined explosion		18 December, 22:37
		Recorded 4 projectiles from S to N		18 December, 23:02
		Recorded 6 projectiles from N to S		18 December, 23:03
		Recorded 3 projectiles from N to S		18 December, 23:04
		Recorded 1 projectile from S to N		18 December, 23:13
		Recorded 6 projectiles from N to S		18 December, 23:32
		Recorded 1 undetermined explosion		18 December, 23:35
		Recorded 3 projectiles from N to S		19 December, 00:23
		Recorded 4 projectiles from N to S		19 December, 00:51
		Recorded 5 projectiles from N to S		19 December, 00:52
		Recorded 1 undetermined explosion		19 December, 01:27
		Recorded 1 projectiles from N to S		19 December, 02:17
		Recorded 3 projectiles from S to N		19 December, 02:27
		Recorded 1 projectile from S to N		19 December, 03:47
		Recorded 3 projectiles from S to N		19 December, 03:48
		Recorded 1 projectile from S to N		19 December, 03:49
		Recorded 3 projectiles from N to S		19 December, 04:23
		Recorded 2 projectiles from N to S		19 December, 04:39
		Recorded 1 projectile from S to N		19 December, 04:40
SMM camera 1km SW of Shyrokyne	5-8km N	Recorded 20 projectiles from E to W	N/K	18 December, 16:05
		Recorded 2 projectiles from E to W		18 December, 16:59

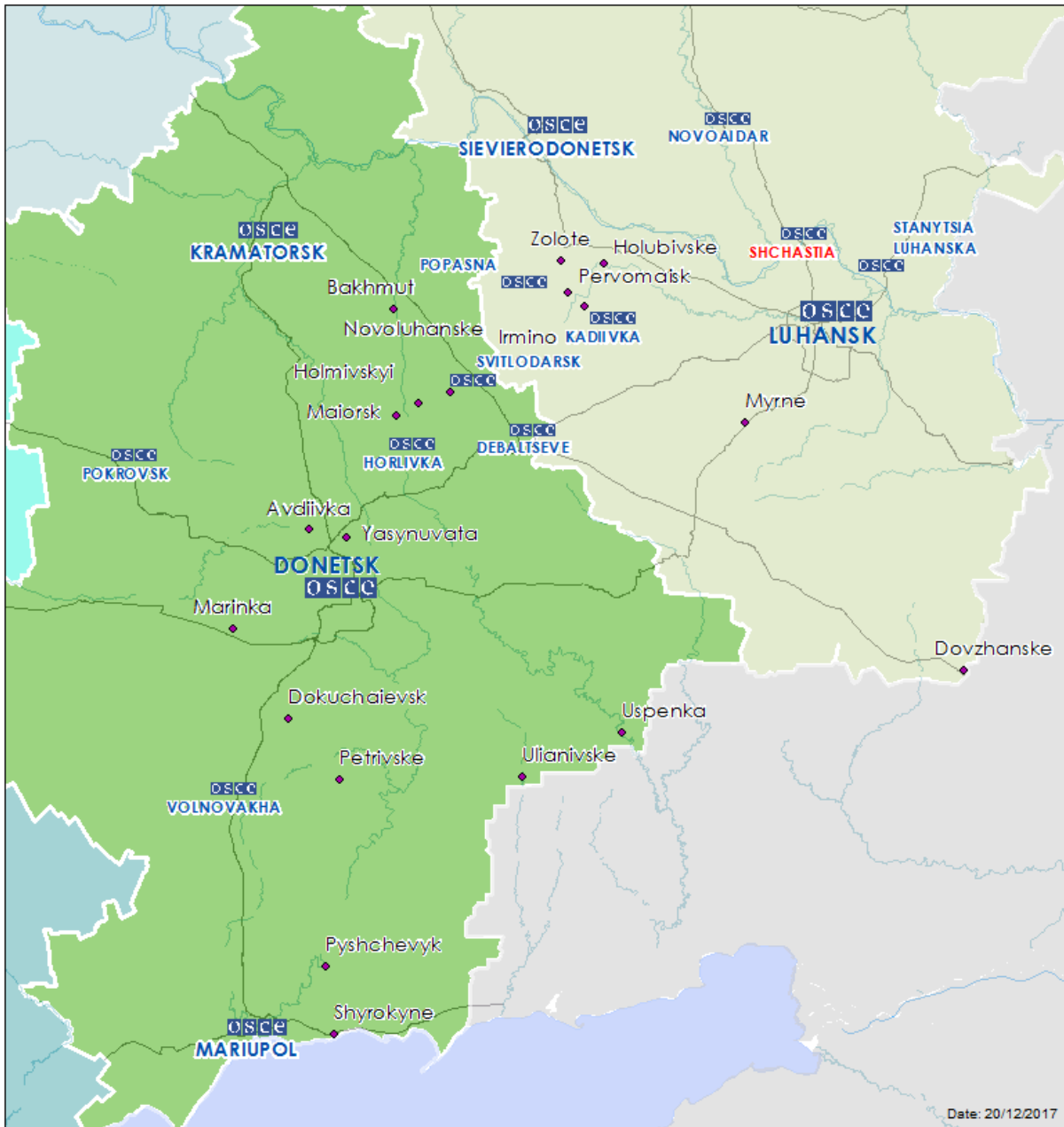
(20km E of Mariupol)		Recorded 2 projectiles from W to E		
		Recorded 1 undetermined explosion		18 December, 17:02
		Recorded 5 projectiles from E to W		18 December, 17:18
		Recorded 10 projectiles from E to W		18 December, 17:35
		Recorded 4 projectiles from W to E		
		Recorded 4 projectiles from E to W		18 December, 17:36
		Recorded 6 projectiles from E to W		18 December, 17:37
		Recorded 1 undetermined explosion		
		Recorded 8 projectiles from E to W		18 December, 17:43
		Recorded 1 projectile from W to E		18 December, 17:44
		Recorded 3 projectiles from E to W		
		Recorded 7 projectiles from E to W		18 December, 17:45
		Recorded 1 projectile from W to E		18 December, 18:11
		Recorded 10 projectiles from E to W		18 December, 18:50
		Recorded 3 projectiles from E to W		18 December, 20:14
		Recorded 1 projectile from E to W		18 December, 20:15
		Recorded 4 projectiles from E to W		18 December, 20:16
		Recorded 1 undetermined explosion		19 December, 13:25
		Recorded 1 undetermined explosion		19 December, 13:26
		Recorded 1 undetermined explosion		19 December, 13:28
	Recorded 1 undetermined explosion		19 December, 13:29	
	Recorded 1 undetermined explosion		19 December, 16:11	
	Recorded 12 tracers from E to W		19 December, 16:43	
	Recorded 2 projectiles from E to W		19 December, 16:52	
	Recorded 7 projectiles from E to W		19 December, 16:53	
	Recorded 7 projectiles from E to W		19 December, 18:05	
SMM camera in Petrivske (“DPR”-controlled, 41km S of Donetsk city centre)	N/K S	Recorded 2 undetermined explosions (unable to assess whether inside or outside the disengagement area)	N/K	16 December, 21:43
	N/K SSW	Recorded 33 tracers from ESE to WNW (unable to assess whether inside or outside the disengagement area)	N/K	16 December, 21:44
	N/K S	Recorded 2 undetermined explosions (unable to assess whether inside or outside the disengagement area)	N/K	16 December, 22:05
Railway station in Yasynuvata (“DPR”-controlled, 16km NE of Donetsk)	1-3km W	Heard uncountable overlapping bursts and shots	Small arms	19 December, 09:18-09:23
		Heard 10 shots		
	1-3km WNW	Heard 11 shots		19 December, 09:28-09:38
		Heard 3 bursts		
	2-5km SW	Heard 1 undetermined explosion	N/K	19 December, 09:42-09:49
	1-3km W	Heard 13 shots	Small arms	19 December, 10:20-10:42
		Heard 5 undetermined explosions	N/K	
	2-3km W	Heard 10 shots	Small arms	19 December, 11:07-11:25
		Heard 35 bursts	HMG	
	1-3km W	Heard 12 shots	Small arms	
	2-4km W	Heard 16 undetermined explosions	N/K	19 December, 11:39-11:50
	1-3km W	Heard 7 bursts	HMG	
	1-3km NW	Heard 11 shots	Small arms	19 December, 12:00-12:32
		Heard 40 bursts		
	2-5km WNW to WSW	Heard 70 undetermined explosions	N/K	
	1-3km W to NW	Heard at least 2,500 bursts and shots	HMG, small arms	19 December, 12:32-13:05
	1.5km-4km W to NW	Heard 122 undetermined explosions	N/K	
1-3km WNW	Heard 190 undetermined explosions	HMG/small arms	19 December, 13:06-13:56	
	Heard at least 1,500 bursts and shots			
2-3km W	Heard 42 shots	Small arms	19 December, 13:57-14:10	
	Heard 20 bursts	HMG		
	Heard 1 undetermined explosion	N/K	19 December, 14:15-14:28	
	Heard 4 undetermined explosions			
	Heard 52 bursts	HMG		

SW edge of Avdiivka (government-controlled, 17km N of Donetsk)	2-4km W	Heard 1 undetermined explosion	N/K	19 December, 09:11	
	2-3km S	Heard 5 undetermined explosions		19 December, 11:34-11:40	
	3-5km S	Heard 17 undetermined explosions		19 December, 12:00-12:15	
	3-5km SE	Heard 3 undetermined explosions		19 December, 12:18-12:25	
	4-6km SE	Heard 4 undetermined explosions		19 December, 13:30-13:36	
	3-5km SW	Heard 7 undetermined explosions		19 December, 13:50-14:18	
Donetsk central railway station ("DPR"-controlled, 6km NW of Donetsk city centre)	3-6km WSW	Heard 3 undetermined explosions	N/K	19 December, 14:14-14:17	
Oleksandrivka ("DPR"-controlled, 20km SW of Donetsk)	2-5km NNW	Heard 2 bursts	HMG	19 December, 10:00-10:30	
		Heard 2 undetermined explosions	N/K		
Dokuchaievsk ("DPR"-controlled, 30km SW of Donetsk)	2-3km WNW	Heard 4 shots	HMG	19 December, 11:42	
		Heard 5 explosions (outgoing)	N/K		
		Heard 2 explosions (impacts)		19 December, 11:44	
		Heard 2 undetermined explosions	19 December, 11:49		
	2-3km WSW	Heard 3 bursts	HMG	19 December, 11:56-12:00	
	2-3km W	Heard 8 shots	AGL		
	2-3km WNW	Heard 5 bursts	HMG	19 December, 12:03	
	2-5km WNW	Heard at least 20 bursts			
	2-4km WNW	Heard 5 explosions (outgoing)	N/K	19 December, 12:14	
	2km WNW	Heard 5 explosions (impacts)			
2-3km W	Heard 4 shots	Small arms	19 December, 12:20		
3km SE of Lomakyne (government-controlled, 15km NE of Mariupol)	N/K ESE	Heard 1 undetermined explosion	N/K	19 December, 12:35	
1km NNW of Pyschchevyk (government-controlled, 25km NE of Mariupol)	N/K NE	Heard 1 undetermined explosion	N/K	19 December, 13:10	
	5-10km NNE	Heard 16 undetermined explosions		19 December, 13:12-13:20	
		Heard 26 undetermined explosions		19 December, 13:22-13:31	
	5-10km E	Heard 4 undetermined explosions		19 December, 13:32-13:36	
	N/K E	Heard 3 undetermined explosions		Mortar (type N/K)	19 December, 13:37-13:50
	N/K NNE	Heard 2 undetermined explosions			
	5-10km NNE	Heard 6 undetermined explosions			
	N/K NE	Heard 1 explosion (outgoing)			
	5-10km NNE	Heard 1 subsequent explosion (impact)	N/K	19 December, 13:55-14:11	
		Heard 2 undetermined explosions			
N/K NE	Heard 5 explosions (outgoing)	Mortar (type N/K)	19 December, 13:55-14:11		
5-10km NNE	Heard 5 subsequent explosions (impacts)				
	Heard 11 undetermined explosions	N/K			
Horlivka ("DPR"-controlled, 39km NE of Donetsk)	3km SW	Heard 18 shots	Small arms	19 December, 08:15-08:45	
		Heard 25 shots		19 December, 09:00-09:10	
	3-5km SW	Heard 3 undetermined explosions	N/K	19 December, 14:37-14:51	
	4km SW	Heard 10 shots	Small arms	19 December, 15:10-15:34	
Bakhmut (formerly Artemivsk, government-controlled, 67km NE of Donetsk)	7-8km SE	Heard 1 undetermined explosion	N/K	19 December, 07:19	
Maiorsk (government-controlled, 45km NE of Donetsk)	10km SW	Heard 2 undetermined explosions	N/K	19 December, 09:38	
Popasna (government-controlled, 69km W of Luhansk)	4-6km SE	Heard 20 undetermined explosions	N/K	18 December, 19:04-19:11	
	0.5-0.6km NE	Heard 5 undetermined explosions		18 December, 19:14-19:15	
	1.5km SW	Heard 3 explosions (outgoing)		18 December, 19:16-20:07	
	4-8km SE	Heard 41 undetermined explosions			

	4-6km SE	Heard 4 undetermined explosions		18 December, 20:28
		Heard 2 undetermined explosions		18 December, 21:16
		Heard 5 undetermined explosions		18 December, 21:35
	4-8km SE	Heard 1 undetermined explosion		18 December, 22:13
	8-15km SE	Heard 20 undetermined explosions		19 December, 07:30-07:37
		Heard 40 undetermined explosions		19 December, 07:46-07:51
	6-12km SSW	Heard 10 bursts		
		Heard 10 single shots		IFV (BMP-2) cannon
8-10km SE	Heard 7 undetermined explosions	N/K	19 December, 08:25-08:30	
2.5-5km SSW	Heard 107 explosions (outgoing)	Mortar (type N/K)	19 December, 08:50-09:35	
3-5km SE	Heard 10 bursts	HMG		
Kadiivka (formerly Stakhanov, "LPR"-controlled, 50km W of Luhansk)	12-18km WSW	Heard 7 undetermined explosions	N/K	18 December, 19:06-19:09
	12-18km WSW	Heard 23 undetermined explosions		18 December, 19:15-19:38
	7-12km W	Heard 6 undetermined explosions		
	4-6km SW	Heard 5 undetermined explosions		
	4-6km W	Heard 5 undetermined explosions		18 December, 20:08-20:12
	12-18km SW	Heard 5 undetermined explosions		18 December, 21:38-21:40
	4-6km SW	Heard 2 undetermined explosions		
	12-18km W	Heard 3 undetermined explosions		
10-15km W	Heard 300 undetermined explosions	HMG	19 December, 06:50-08:27	
	Heard 15 bursts			
Irmino ("LPR"-controlled, 54km W of Luhansk)	8-14km SW	Heard 205 undetermined explosions	N/K	19 December, 08:50-09:50
	3-4km W	Heard 7 bursts	HMG	
Zolote (government-controlled, 60km W of Luhansk)	4-7km SSW	Heard 1 undetermined explosion (assessed as outside the disengagement area)	Artillery (type N/K)	19 December, 08:35
		Heard 4 undetermined explosions (assessed as outside the disengagement area)	Mortar (type N/K)	
N edge of Zolote disengagement area (government-controlled, 60km W of Luhansk)	7km S	Heard 20 undetermined explosions (assessed as outside the disengagement area)	Mortar (type N/K)	19 December, 08:50-09:10
		Heard 70 undetermined explosions (assessed as outside the disengagement area)		19 December, 09:15-9:40
		Heard 15 bursts (assessed as outside the disengagement area)	HMG	
Holubivske ("LPR"-controlled, 51km W of Luhansk)	6-8km NNE	Heard 10 undetermined explosions	N/K	19 December, 10:20-10:38
	5-6km NW	Heard 10 undetermined explosions		
Vesela Hora ("LPR"-controlled, 16km N of Luhansk)	25-30km W/SW	Heard 6 undetermined explosions	N/K	19 December, 10:48-10:53
100m N of Stanytsia Luhanska bridge (15km NE of Luhansk)	3-5km SW	Heard 1 undetermined explosion (assessed as outside the disengagement area)	N/K	19 December, 11:08
E edge of Stanytsia Luhanska (16km NE of Luhansk)	3-5km SSW	Heard 1 undetermined explosion (assessed as inside the disengagement area)	N/K	19 December, 16:07
Myrne ("LPR"-controlled, 28km SW of Luhansk)	5km NW	Heard 15 undetermined explosions (assessed as live-fire exercise)	Artillery (type N/K)	19 December, 12:30-12:35



### 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.)