

Table of ceasefire violations as of 21 December 2016¹

SMM position	Location of event	Observation	Type of weapon/ammunition	Date/time
SMM camera in Petrivske (“DPR”-controlled, 41km S of Donetsk city centre)	1-2km WSW	Recorded 1 undetermined explosion	N/K	19 December 23:23
Svitlodarsk (government-controlled, 57km NE of Donetsk)	6km NE	Heard 10 explosions (outgoing)	Artillery (122mm)	20 December, 18:30-19:10
	5km N	Heard 23 explosions (outgoing)		20 December, 18:30-19:23
		Heard 12 explosions (outgoing)		20 December, 20:01-20:33
	6km NE	Heard 21 explosions (outgoing)		
	2km S	Heard 24 bursts	HMG	20 December, 21:10-23:40
	3Km SE	Heard 13 bursts	Anti-aircraft cannon (ZU-23, 23mm) or IFV (BMP-2) cannon (30mm)	20 December 21:22-23:31
	2km S	Heard 22 explosions (outgoing)	Recoilless gun SPG-9 (73mm) or IFV (BMP-1) cannon (73mm)	20 December, 21:32-23:12
	3-4km SSE	Heard 29 explosions (impacts)	Mortar (120mm)	20 December, 22:13-23:35
	3km S	Heard 24 explosions (outgoing)	Tank (type N/K)	20 December, 23:32-23:45
	4km S	Heard 17 explosions (impacts)	Mortar (120mm)	21 December, 06:30-07:35
		Heard 25 bursts	HMG	
		Heard 4 bursts	AGL	
		Heard 11 bursts	Anti-aircraft cannon (ZU-23, 23mm) or IFV (BMP-2) cannon (30mm)	
	4-5km N	Heard 24 explosions (outgoing)	Artillery (122mm)	21 December, 07:10-07:23
	3-4km S	Heard 7 explosions (impacts)	Mortar (120mm)	21 December, 08:20-08:55
	2km S	Heard 26 bursts	HMG	
	1km S	Heard 8 explosions (outgoing)	Recoilless gun (SPG-9, 73mm)	
	1.5km S	Heard 3 bursts	AGL	
2km S	Heard 1 burst	Anti-aircraft cannon (ZU-23, 23mm) or IFV (BMP-2) cannon (30mm)		
4-6km NE	Heard 60 explosions (outgoing)	Artillery (152mm)		
5-7km N	Heard 95 explosions (outgoing)	Artillery (122mm)	21 December, 10:20-11:03	

¹ The table only includes ceasefire violations directly observed by the SMM and it may include those also assessed as 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 as the same are entered only once.

	4-6km NE	Heard 28 explosions (outgoing)	Artillery (152mm)	21 December, 10:33-14:39
	8km SW	Heard 162 undetermined explosions	N/K	21 December, 10:40-15:00
	7-8km SE	Heard 157 undetermined explosions		
	7-8km S	Heard 178 undetermined explosions	N/K	
	2-3km SE	Heard 14 explosions (outgoing)	Tank (N/K)	21 December, 11:41-11:58
	2km S	Heard 84 explosions (outgoing)	Recoilless gun (SPG-9, 73mm), IFV (BMP-1) cannon (73mm)	21 December, 11:52-12:39
	3-4km S	Heard 87 explosions (impacts)	Mortar (120mm)	21 December, 11:57-14:50
	1.5-2km SSE	Heard 127 bursts	Anti-aircraft gun (ZU-23, 23mm) or IFV (BMP-2) cannon (30mm)	21 December, 12:17-15:00
		Heard 47 bursts	AGL	21 December, 12:39-14:15
1.5-2km S	Heard overlapping uncountable bursts	HMG, small arms	21 December, 13:40-15:00	
SMM camera at Oktiabr mine ("DPR"-controlled, 9km NW of Donetsk city centre)	6-10km NE	Recorded 1 undetermined projectile in flight from S to N	N/K	20 December, 18:29
		Recorded 1 undetermined projectile in flight from N to S		20 December, 18:33
		Recorded 27 undetermined explosions		20 December, 19:03-19:06
		Recorded 1 tracer of direct fire in flight from S to N		20 December, 19:07
		Recorded 3 undetermined explosions		20 December, 19:08
		Recorded 1 tracer of direct fire in flight from S to N		20 December, 19:09
		Recorded 4 undetermined explosions		20 December, 19:10
		Recorded 1 tracer of direct fire in flight from S to N		20 December, 19:11
		Recorded 11 undetermined explosions		20 December, 19:13-19:14
		Recorded 17 tracers of direct fire in flight from N to S		20 December, 19:15
		Recorded 3 undetermined explosions		20 December, 19:16-19:17
		Recorded 1 tracer of direct fire in flight from N to S		20 December, 19:18
		Recorded 1 tracer of direct fire in flight from S to N		20 December, 19:19
		Recorded 2 tracers of direct fire in flight from N to S		20 December, 19:21
		Recorded 7 undetermined explosions		20 December, 19:23
		Recorded 7 tracers of direct fire in flight from N to S		20 December, 19:23-19:26
		Recorded 1 tracer of direct fire in flight from S to N		20 December, 19:24
		Recorded 2 undetermined explosions		20 December, 19:31
		Recorded 10 tracers of direct fire in flight from N to S		20 December, 19:38-19:40
		Recorded 7 tracers of direct fire in flight from S to N		20 December, 19:39-19:40
		Recorded 1 illumination flare from S to N		20 December, 19:47
		Recorded 4 undetermined projectiles in flight from N to S		20 December, 19:55-19:58
		Recorded 3 tracers of direct fire in flight from S to N		20 December, 20:07-20:08
		Recorded 1 tracer of direct fire in		20 December, 20:08

		flight from N to S		
		Recorded 3 undetermined projectiles in flight from N to S		20 December, 20:25
		Recorded 1 undetermined projectile in flight from N to S		20 December, 20:31
		Recorded 2 undetermined projectiles in flight from N to S		20 December, 20:36
		Recorded 1 illumination flare in vertical flight		20 December, 20:40
		Recorded 1 undetermined projectile in flight from N to S		20 December, 20:52
	7-10 km NE	N/K	Recorded about 35 tracers of direct fire in flight from W to E	21 December, 16:08
			Recorded 2 undetermined projectiles of indirect fire in flight from W to E	21 December, 16:12
			Recorded 2 undetermined projectiles of indirect fire in flight from W to E	21 December, 16:13
			Recorded about 45 tracers of direct fire in flight from W to E	21 December, 16:14
			Recorded 3 undetermined projectiles of indirect fire in flight from W to E	21 December, 16:15
			Recorded 1 illumination flare	21 December, 18:19
SMM camera in Shyrokyne (20km E of Mariupol)	N/K N	N/K	Recorded 1 rocket-assisted projectile in flight from W to E	20 December, 18:38
			Recorded 1 rocket-assisted projectile in flight from W to E	20 December, 18:40
			Recorded 1 rocket-assisted projectile in flight from W to E	
			Recorded 1 subsequent explosion (impact)	20 December, 18:45
			Recorded 1 rocket-assisted projectile in flight from W to E	
			Recorded 1 subsequent explosion (impact)	20 December, 18:47
			Recorded 1 rocket-assisted projectile in flight from W to E	
			Recorded 1 subsequent explosion (impact)	20 December, 19:17
			Recorded 1 rocket-assisted projectile in flight from W to E	
			Recorded 1 undetermined explosion	20 December, 19:19
			Recorded 1 undetermined explosion	
			Recorded 1 rocket-assisted projectile from W to E	20 December, 19:36
			Recorded 1 undetermined explosions	
			Recorded 20 tracers of direct fire in flight from E to W	20 December, 19:38
			Recorded 1 rocket-assisted projectile in flight from W to E	
			Recorded 18 tracers of direct fire in flight from E to W	
			Recorded 1 rocket-assisted projectile in flight from W to E	
			Recorded 1 rocket-assisted projectile in flight from W to E.	
			Recorded 1 rocket-assisted projectile in flight from W to E	

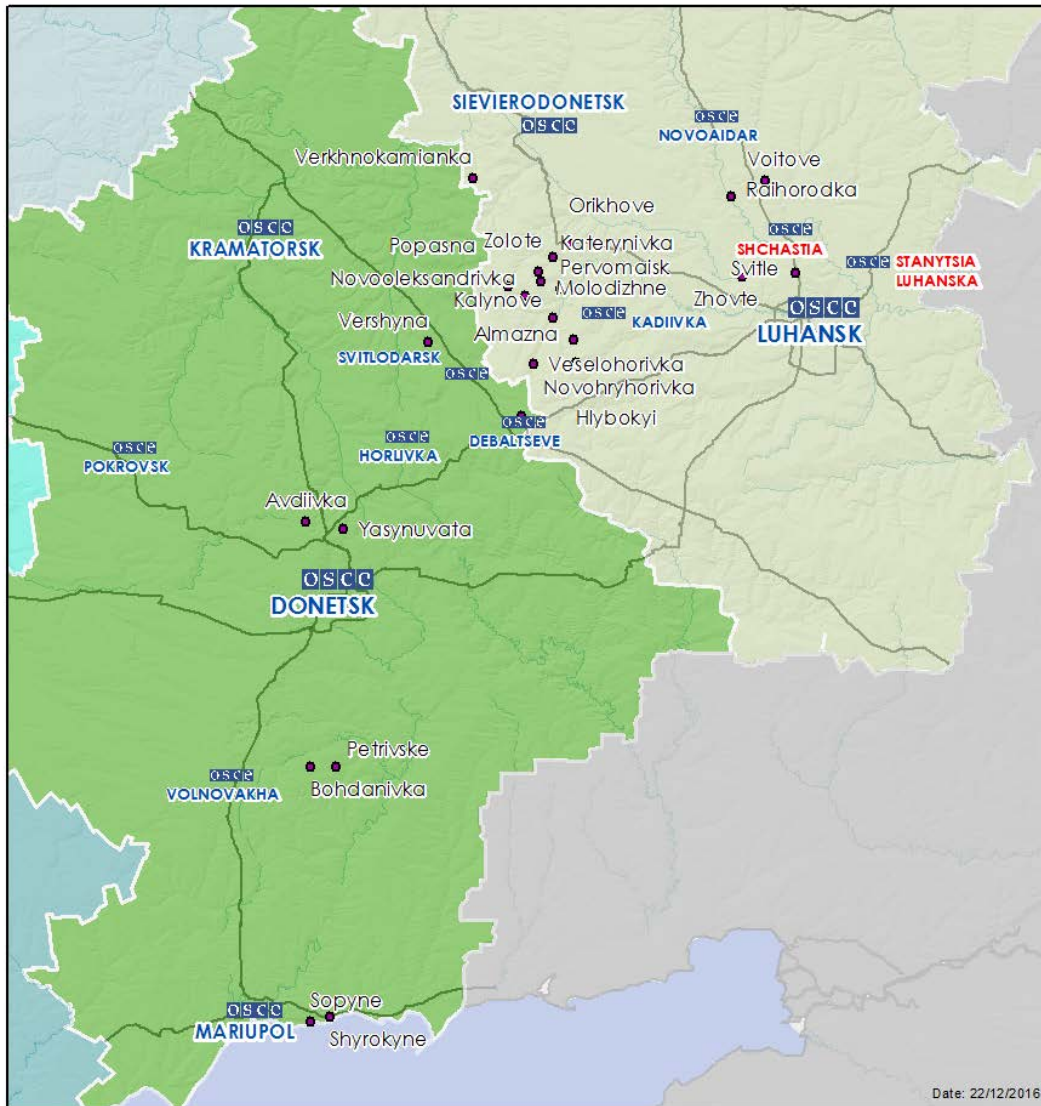
		Recorded 1 undetermined explosion		
		Recorded 1 undetermined explosion		20 December, 19:09
		Recorded 1 rocket-assisted projectile in flight from W to E		20 December, 19:39
		Recorded 1 rocket-assisted projectile in flight from W to E		20 December, 19:40
		Recorded 1 subsequent explosion (impact)		
		Recorded 3 rocket-assisted projectiles in flight from W to E		20 December, 19:41
		Recorded 13 tracers of direct fire in flight from E to W		20 December, 19:57
		Recorded 1 rocket-assisted projectile in flight from W to E		20 December, 22:58
	N/K NE	Recorded 1 rocket-assisted projectile in flight from W to E		20 December, 23:09
	N/K NNE	Recorded 2 rocket-assisted projectiles in flight from NW to SE	N/K	21 December, 16:49
		Recorded 1 tracer of direct fire in flight from NW to SE	Small arms	21 December, 17:01
		Recorded 5 tracers of direct fire in flight from NW to SE		21 December, 17:10
		Recorded 1 tracer of direct fire in flight fired from NW to SE		21 December, 17:13
	N/K N	Recorded 13 tracers of direct fire in flight from W to E	Small arms	21 December, 18:15
Recorded 6 tracers of direct fire in flight from E to W				
Recorded 27 tracers of direct fire in flight from W to E		21 December, 18:17		
Recorded 15 tracers of direct fire in flight from E to W		21 December, 18:18		
SMM camera in Avdiivka (government-controlled, 17km N of Donetsk)	4-6km ESE	Recorded 1 undetermined projectile in flight from N to S	N/K	20 December, 18:39
		Recorded 1 undetermined projectile in flight from N to S		20 December, 18:48
		Recorded 1 undetermined projectile in flight from N to S		20 December, 19:20
	4-6km SE	Recorded 1 tracer of direct fire in flight from N to S		20 December, 19:27
	4-6km ESE	Recorded 5 tracers of direct fire in flight from S to N		20 December, 19:37
	6-8km ESE	Recorded 1 undetermined explosion		20 December, 20:03
		Recorded 1 undetermined explosion		20 December, 20:04
	3-5km ESE	Recorded 1 tracer of direct fire in flight from N to S		20 December, 20:06
		Recorded 1 tracer of direct fire in flight from N to S		20 December, 20:12
	3-5km SE	Recorded 1 undetermined projectile in flight from N to S		20 December, 20:33
		Recorded 1 undetermined projectile in flight from N to S		20 December, 20:35
		Recorded 17 undetermined projectiles in flight from N to S		20 December, 20:38
	4-6km SSE	Recorded 4 undetermined projectiles in flight from N to S		20 December, 20:43
		Recorded 37 undetermined projectiles in flight from S to N		20 December, 21:14-21:24
	4-6km SE	Recorded 5 undetermined projectiles in flight from N to S		20 December, 21:15-21:16
		Recorded 7 undetermined projectiles in flight from S to N		20 December, 21:37
		Recorded 5 tracers of direct fire in flight from S to N		20 December, 22:23-22:29

		Recorded 1 illumination flare in flight from S to N	N/K	20 December, 22:23	
		Recorded 2 undetermined explosions		20 December, 22:30	
	4-6km ESE	Recorded 4 undetermined projectiles in flight from N to S		20 December, 22:47	
	4-5 km ESE		Recorded 1 explosion (impact)	N/K	21 December, 06:58
			Recorded 1 air burst		21 December, 07:00
			Recorded 1 undetermined projectile in flight from NE to SW		21 December, 07:00
			Recorded 1 explosion (impact)		21 December, 07:02
			Recorded 4 undetermined projectiles of indirect fire in flight from NE to SW		21 December, 16:09
			Recorded 6 undetermined projectiles of indirect fire in flight from NE to SW		21 December, 16:12
			Recorded 1 undetermined projectile of indirect fire in flight from NE to SW		21 December, 16:14
		Recorded 1 explosion (impact)	21 December, 16:14		
	Recorded 1 undetermined projectile of indirect fire in flight from NE to SW	21 December, 16:34			
Horlivka ("DPR"-controlled, 39km N of Donetsk)	4-5 km SW	Heard 1 undetermined explosion	N/K	20 December, 19:47	
	3-5 km SW	Heard 1 burst	Anti-aircraft gun (ZU-23, 23mm)	20 December, 20:07	
Debaltseve ("DPR"-controlled, 58km NE of Donetsk)	6-8km NW	Heard 19 undetermined explosions	N/K	20 December, 23:41-23:45	
	3-5km NW	Heard 23 explosions (outgoing)	N/K	21 December, 14:15-14:22	
	3-5km NW	Heard 107 explosions (outgoing)	Artillery (N/K)	21 December, 14:23-14:41	
	1-3km NE	Heard 23 explosions (outgoing)	Mortar (N/K)	21 December, 14:33-14:40	
	3-5km NW	Heard 35 explosions (outgoing)	Artillery (N/K)	21 December, 14:46-14:48	
	1-3km NE	Heard 10 explosions (outgoing)	Mortar (N/K)		
	3-5km NW	Heard 35 explosions (outgoing)	Artillery (N/K)	21 December, 14:48-14:51	
	1-3km NE	Heard 2 explosions (outgoing)	Mortar (N/K)		
	3-5km NW	Heard 52 explosions (outgoing)	Artillery (N/K)	21 December, 14:52-15:02	
	1-3km NE	Heard 37 explosions (outgoing)	Mortar (N/K)		
	3-5km NW	Heard 13 explosions (outgoing)	Artillery (N/K)	21 December, 15:04-15:07	
	1-3km NE	Heard 4 explosions (outgoing)	Mortar (N/K)		
	6-10km NW	Heard 5 undetermined explosions	N/K	21 December, 15:28	
	5-8km NW	Heard 10 explosions (outgoing)	Artillery (N/K)	N/K	21 December, 15:32
		Heard 4 explosions (outgoing)			
	12-15km NW	Heard 5 undetermined explosions	N/K	N/K	21 December, 15:41
		Heard 5 undetermined explosions			21 December, 15:43
5-8km NW	Heard 20 undetermined explosions	N/K	N/K	21 December, 15:49-15:53	
	Heard 3 undetermined explosions			21 December, 16:14	
Yasynuvata railroad station ("DPR"-controlled, 16km NE of Donetsk)	4-6km W	Heard 5 undetermined explosions	N/K	21 December, 08:45	
		Heard 20 shots	Small arms		
		Heard 40 shots		21 December, 08:50	
		Heard 4 undetermined explosions	N/K	21 December, 09:20	
	4-6km NW	Heard 6 shots	Small arms	N/K	21 December, 09:30
	6-8km W	Heard 10 shots			21 December, 09:35
	3-4 W	Heard 3 bursts			21 December, 09:53
		Heard 12 shots			21 December, 09:58
4-5km S	Heard 2 undetermined explosions	N/K	21 December, 09:58		

		Heard 3 undetermined explosions		21 December, 10:03	
	3-4km W	Heard 1 bursts	Small arms	21 December, 10:03	
		Heard 9 shots		21 December, 10:05	
	4-5km SW	Heard 2 undetermined explosions	N/K	21 December, 10:07	
		Heard 2 undetermined explosions		21 December, 10:11	
	5-7km SW	Heard 1 undetermined explosions		21 December, 10:22	
	3-5km WNW	Heard 1 shot	Small arms	21 December, 10:57	
		Heard 2 shot		21 December, 11:00	
	4-5km W	Heard 1 undetermined explosions	N/K	21 December, 11:07	
	4-5km NW	Heard 4 shots	Small arms	21 December, 11:35	
		Heard 5 bursts		21 December, 11:40	
		Heard 30 shots		21 December, 11:40	
	3-5km NW	Heard 16 shots		21 December, 12:35-12:57	
	3-5km W	Heard 3 shots		21 December, 13:01	
	3-5km SSW	Heard 4 shots		21 December, 13:02	
	3-5km W	Heard 5 shots		21 December, 13:03	
		Heard 2 shots		21 December, 13:05	
	3-5km SW	Heard uncountable bursts	HMG and small arms	21 December, 13:07-13:13	
	3-5km W	Heard 6 shots	Small arms	21 December, 13:15	
	3-5km W	Heard 2 shots	Small arms	21 December, 13:20	
		Heard 21 shots		21 December, 13:21-13:33	
	N/K NW	Heard 2 undetermined explosions	N/K	21 December, 13:25	
	N/K W	Heard 3 undetermined explosions		21 December, 13:27	
	N/K NW	Heard 3 undetermined explosions		21 December, 13:32	
Donetsk central railway station ("DPR"- controlled, 6km NW of Donetsk city centre)	3km W	Heard 3 bursts	Small arms	21 December, 09:05	
	5-8km NE	Heard 7 undetermined explosions		N/K	21 December, 09:21-09:22
		5-6km NE	Heard 4 undetermined explosions		21 December, 09:58
			Heard 2 undetermined explosions		21 December, 09:59
			Heard 3 undetermined explosions		21 December, 10:03
Heard 2 undetermined explosions	21 December, 10:07				
3km W	Heard 3 bursts	Small arms	21 December, 10:20		
Bohdanivka (government-controlled, 41km SW of Donetsk)	N/K NW	Heard 1 undetermined explosion	N/K	21 December, 09:18	
	4km NE	Heard 3 bursts	Small arms	21 December, 11:30	
Sopyne (government-controlled, 16km E of Mariupol),	N/K NE	Heard 1 undetermined explosion	N/K	21 December, 09:50	
Avdiivka (government-controlled, 17km N of Donetsk)	2-3km SE	Heard 8 bursts	HMG	21 December, 09:54	
	2-3km SE	Heard 3 undetermined explosions	N/K	21 December, 10:00	
	1km SE	Heard 8 explosions (impact)		21 December, 10:05	
	3-4km SSE	Heard 2 undetermined explosions		21 December, 13:30	
Verkhnohyrokiivske (formerly Oktiabr, "DPR"-controlled, 29km NE of Mariupol)	5km SSW	Heard 30 single shots	Small arms	21 December, 10:21	
Pikuzy (formerly Kominternove, "DPR"-controlled, 23km NE of Mariupol)	N/K N	Heard 3 explosions (outgoing)	Mortar (N/K)	21 December, 10:40-11:00	
	2-3km SSW	Heard 3 bursts	HMG		
	2-3km NNE	Heard 10 bursts			
	N/K SE	Heard 5 single shots	Small arms	21 December, 12:55	
	1-2km SSW	Heard 4 single shots	Small arms	21 December, 12:50 – 13:05	
Pivnichne (government-controlled, 44km NE)	6-7km E	Heard 3 undetermined explosions	N/K	21 December, 11:30	

of Donetsk)					
Berdianske (government-controlled, 18km E of Mariupol)	N/K N	Heard 30 bursts	HMG	21 December, 12:05-12:10	
		Heard 17 shots	AGL		
3km NE of Debaltseve (“DPR”-controlled, 58km NE of Donetsk)	5km W	Heard 7 explosions (outgoing)	Artillery (N/K)	21 December, 12:25 – 12:30	
Oleksandrivka (“DPR”-controlled, 20km SW of Donetsk)	4-5km W	Heard 1 undetermined explosions	N/K	21 December, 12:26	
	3-5 WSW	Heard 7 bursts	Small arms	21 December, 13:09	
	4-6km WSW	Heard 4 undetermined explosions	N/K	21 December, 13:25	
	10-12km N	Heard 16 undetermined explosions		21 December, 13:43	
	7-8km N	Heard 6 undetermined explosions		21 December, 13:47	
	3km W	Heard 6 shots	Small arms	21 December, 13:53	
		Heard 4 bursts		21 December, 14:01	
	3km N	Heard 1 bursts		21 December, 14:06	
		Heard 3 shots		21 December, 14:08	
		Heard 3 shots		21 December, 14:09	
Vodiane (government-controlled, 24km NE of Mariupol)	N/K SE	Heard 5 shots		Small arms	21 December, 12:55
UAV over Novohryhorivka (“DPR”-controlled, 61km north-east of Donetsk)	1.5km SW	Recorded 10 muzzle flashes		Mortar (N/K)	21 December, 15:16-15:56
1.5km SSW of Kalynove (“LPR”-controlled, 60km W of Luhansk)	5km W-SW	Heard 130 explosions (outgoing and impacts)		Artillery (N/K)	21 December, 10:00-10:10
3.7km SW of Almazna (“LPR”-controlled, 55km W of Luhansk)	5-10km W-SW	Heard 17 explosions (outgoing and impacts)		Artillery (N/K)	21 December, 10:45-10:55
2km W of Veselohorivka (“LPR”-controlled, 64km W of Luhansk)	5-10km SW	Heard 11 undetermined explosions		Artillery (N/K)	21 December, 11:20 – 11:30
“LPR” checkpoint south of Shchastia (government-controlled, 20km north of Luhansk)	5km NW	Heard 1 undetermined explosion	N/K	21 December, 11:30	
Smile (“LPR”-controlled, 31km NW of Luhansk)	5-7km NW	Heard 3 undetermined explosions	N/K	21 December, 12:22	

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.)