

**Table of ceasefire violations as of 5 March 2019<sup>1</sup>**

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera in Chermalyk (government-controlled, 31km NE of Mariupol)	2-4km SE	Recorded	5	Projectile	ENE to WSW	N/K	4-Mar, 18:40
	2-4km SE	Recorded	9	Projectile	ENE to WSW	N/K	4-Mar, 18:42
	2-4km SE	Recorded	1	Explosion	Undetermined	N/K	4-Mar, 18:52
	2-4km SE	Recorded	6	Projectile	ENE to WSW	N/K	4-Mar, 18:57
	3-5km S	Recorded	3	Projectile	WSW to ENE	N/K	4-Mar, 19:03
	3-5km S	Recorded	1	Explosion	Undetermined	N/K	4-Mar, 19:20
	2-4km S	Recorded	1	Projectile	WSW to ENE	N/K	4-Mar, 19:20
	2-4km SSE	Recorded	1	Projectile	WSW to ENE	N/K	4-Mar, 19:22
	2-4km SSE	Recorded	6	Projectile	ENE to WSW	N/K	4-Mar, 19:22
	2-4km SE	Recorded	2	Projectile	ENE to WSW	N/K	4-Mar, 19:54
	3-5km SE	Recorded	3	Projectile	ENE to WSW	N/K	4-Mar, 19:55
	2-4km SE	Recorded	12	Projectile	ENE to WSW	N/K	4-Mar, 20:17
	2-4km SE	Recorded	12	Projectile	ENE to WSW	N/K	4-Mar, 20:28
	2-4km SE	Recorded	8	Projectile	ENE to WSW	N/K	4-Mar, 20:30
	2-4km SE	Recorded	6	Projectile	ENE to WSW	N/K	4-Mar, 20:43
	2-4km SE	Recorded	1	Projectile	NE to SW	N/K	4-Mar, 20:58
	2-4km SE	Recorded	8	Projectile	ENE to WSW	N/K	4-Mar, 21:29
	2-4km SSE	Recorded	2	Projectile	WSW to ENE	N/K	4-Mar, 21:29
	2-4km SE	Recorded	12	Projectile	ENE to WSW	N/K	4-Mar, 21:30
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	4-Mar, 21:30
	2-4km SSE	Recorded	1	Projectile	W to E	N/K	4-Mar, 21:32
	2-4km SE	Recorded	10	Projectile	ENE to WSW	N/K	4-Mar, 21:34
	2-4km SSE	Recorded	41	Projectile	ENE to WSW	N/K	4-Mar, 21:35
	2-4km SSE	Recorded	1	Projectile	WSW to ENE	N/K	4-Mar, 21:38
	2-4km SE	Recorded	4	Projectile	ENE to WSW	N/K	4-Mar, 21:58
	2-4km SSE	Recorded	1	Projectile	WSW to ENE	N/K	4-Mar, 22:14
	2-4km SSE	Recorded	1	Projectile	WSW to ENE	N/K	4-Mar, 22:15
	2-4km SE	Recorded	8	Projectile	ENE to WSW	N/K	4-Mar, 22:28
	2-4km SE	Recorded	2	Projectile	ENE to WSW	N/K	4-Mar, 23:14
	2-4km SE	Recorded	7	Projectile	ENE to WSW	N/K	4-Mar, 23:29
	2-4km SE	Recorded	1	Projectile	WNW to ESE	N/K	4-Mar, 23:36
	2-5km SE	Recorded	1	Explosion	Undetermined	N/K	5-Mar, 00:11
	2-4km SE	Recorded	8	Projectile	ENE to WSW	N/K	5-Mar, 00:20
	2-4km SE	Recorded	8	Projectile	ENE to WSW	N/K	5-Mar, 00:28
	2-4km SE	Recorded	18	Projectile	ENE to WSW	N/K	5-Mar, 00:29
	2-4km SE	Recorded	1	Projectile	ENE to WSW	N/K	5-Mar, 00:33
	2-4km SE	Recorded	2	Projectile	ENE to WSW	N/K	5-Mar, 00:35
	2-5km SE	Recorded	1	Explosion	Undetermined	N/K	5-Mar, 00:37
	2-4km SE	Recorded	3	Projectile	ENE to WSW	N/K	5-Mar, 00:39
	2-4km SE	Recorded	2	Projectile	ENE to WSW	N/K	5-Mar, 00:58
	2-4km SSE	Recorded	19	Projectile	ENE to WSW	Anti-aircraft gun (ZU-23, 23mm)	5-Mar, 01:22
	2-4km SSE	Recorded	2	Projectile	ENE to WSW	N/K	5-Mar, 01:23
	2-4km SSE	Recorded	14	Projectile	WSW to ENE	Anti-aircraft gun (ZU-23, 23mm)	5-Mar, 01:28
2-4km SSE	Recorded	15	Projectile	WSW to ENE	Anti-aircraft gun (ZU-	5-Mar, 01:31	

<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.

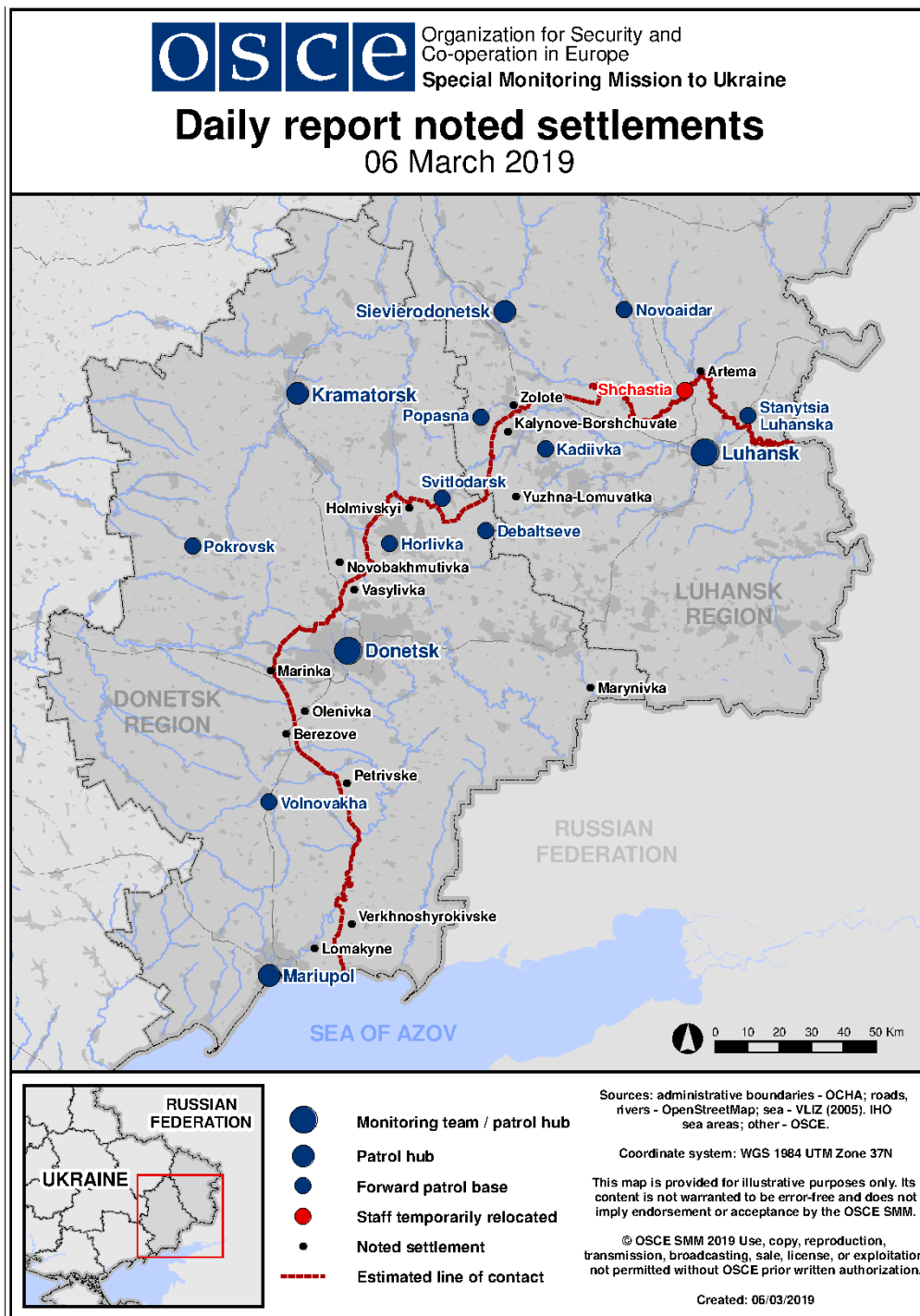
					23, 23mm)		
2-4km SSE	Recorded	7	Projectile	ENE to WSW	N/K	5-Mar, 02:21	
2-4km SE	Recorded	6	Burst	ENE to WSW	N/K	5-Mar, 02:29	
2-4km SE	Recorded	2	Projectile	ENE to WSW	N/K	5-Mar, 02:51	
2-4km SSE	Recorded	3	Projectile	WSW to ENE	N/K	5-Mar, 03:00	
2-4km SE	Recorded	8	Projectile	ENE to WSW	N/K	5-Mar, 03:14	
2-4km SE	Recorded	20	Projectile	ENE to WSW	N/K	5-Mar, 03:15	
2-4km SE	Recorded	10	Projectile	ENE to WSW	N/K	5-Mar, 03:16	
2-4km SE	Recorded	4	Projectile	ENE to WSW	N/K	5-Mar, 03:17	
2-4km SE	Recorded	6	Projectile	ENE to WSW	N/K	5-Mar, 03:30	
2-4km SE	Recorded	3	Projectile	ENE to WSW	N/K	5-Mar, 03:32	
2-4km SE	Recorded	2	Muzzle flash		N/K	5-Mar, 03:32	
2-4km SSE	Recorded	13	Projectile	WSW to ENE	N/K	5-Mar, 03:34	
2-4km SE	Recorded	2	Projectile	ENE to WSW	N/K	5-Mar, 03:58	
2-4km SE	Recorded	9	Projectile	ENE to WSW	N/K	5-Mar, 03:59	
2-4km SE	Recorded	15	Projectile	ENE to WSW	Anti-aircraft gun (ZU-23, 23mm)	5-Mar, 04:00	
2-4km SE	Recorded	3	Projectile	ENE to WSW	N/K	5-Mar, 04:01	
2-4km SSE	Recorded	6	Projectile	ENE to WSW	N/K	5-Mar, 04:36	
2-4km SE	Recorded	19	Projectile	ENE to WSW	Anti-aircraft gun (ZU-23, 23mm)	5-Mar, 04:45	
2-4km SE	Recorded	1	Projectile	ENE to WSW	N/K	5-Mar, 04:48	
2-4km SE	Recorded	1	Explosion	Undetermined	N/K	5-Mar, 04:48	
2-4km SE	Recorded	1	Projectile	ENE to WSW	N/K	5-Mar, 17:52	
2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	5-Mar, 17:53	
2-4km SSE	Recorded	4	Projectile	ENE to WSW	N/K	5-Mar, 17:54	
2-4km SE	Recorded	7	Projectile	ENE to WSW	N/K	5-Mar, 17:55	
2-4km SE	Recorded	12	Projectile	ENE to WSW	N/K	5-Mar, 17:56	
2-4km SE	Recorded	2	Explosion	Undetermined	N/K	5-Mar, 17:56	
2-4km SSE	Recorded	8	Projectile	ENE to WSW	N/K	5-Mar, 17:57	
2-4km SE	Recorded	9	Projectile	ENE to WSW	N/K	5-Mar, 17:58	
2-4km SE	Recorded	12	Projectile	ENE to WSW	N/K	5-Mar, 17:59	
2-5km SE	Recorded	2	Projectile	ENE to WSW	N/K	5-Mar, 18:00	
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	1-2km SSW	Recorded	4	Projectile	NW to SE	N/K	4-Mar, 19:06
	200-500m SSW	Recorded	11	Projectile	WNW to ESE	N/K	4-Mar, 19:14
	1-2km SSW	Recorded	5	Projectile	W to E	N/K	4-Mar, 19:15
	1-2km SSW	Recorded	4	Projectile	W to E	N/K	4-Mar, 19:16
	1-2km SSW	Recorded	3	Projectile	NW to SE	N/K	4-Mar, 19:30
	1.5-2km SSW	Recorded	3	Projectile	W to E	N/K	4-Mar, 20:27
	1.5-2km SSE	Recorded	2	Projectile	E to W	N/K	4-Mar, 20:27
	100-250m SSW	Recorded	5	Projectile	WNW to ESE	N/K	4-Mar, 20:28
	100-250m SSW	Recorded	4	Projectile	WNW to ESE	N/K	4-Mar, 20:29
	1.5-2km SSW	Recorded	1	Projectile	WNW to ESE	N/K	4-Mar, 20:43
	1.5-2km SSW	Recorded	1	Projectile	WNW to ESE	N/K	4-Mar, 20:44
	1.5-2km SSW	Recorded	1	Explosion	Undetermined	N/K	4-Mar, 21:16
	1.5-2km SSW	Recorded	2	Projectile	WNW to ESE	N/K	4-Mar, 22:45
	1.5-2km SSE	Recorded	3	Muzzle flash		N/K	4-Mar, 22:46
	1.5-2km S	Recorded	1	Projectile	W to E	N/K	4-Mar, 22:46
	1.5-2km SSE	Recorded	3	Muzzle flash		N/K	4-Mar, 22:47
	1.5-2km S	Recorded	2	Projectile	W to E	N/K	4-Mar, 22:48
	1.5-2km S	Recorded	1	Projectile	In vertical flight	N/K	4-Mar, 22:48
	1.5-2km S	Recorded	1	Illumination flare	In vertical flight	N/K	4-Mar, 22:49
	1.5-3km SSW	Recorded	1	Muzzle flash		N/K	4-Mar, 23:36
	1-2km S	Recorded	1	Explosion	Undetermined	N/K	4-Mar, 23:36
	200-300m SSW	Recorded	2	Projectile	WNW to ESE	N/K	5-Mar, 00:25
	200-300m SSW	Recorded	2	Projectile	WNW to ESE	N/K	5-Mar, 01:52
	200-300m SSW	Recorded	2	Projectile	WNW to ESE	N/K	5-Mar, 01:53
	200-300m SSW	Recorded	1	Projectile	WNW to ESE	N/K	5-Mar, 02:09

	300-500m S	Recorded	1	Projectile	WNW to ESE	N/K	5-Mar, 02:48
	300-500m S	Recorded	1	Projectile	WNW to ESE	N/K	5-Mar, 02:50
	300-500m SSW	Recorded	2	Projectile	WNW to ESE	N/K	5-Mar, 03:08
	300-500m SSW	Recorded	6	Projectile	WNW to ESE	N/K	5-Mar, 03:48
	300-500m SSW	Recorded	4	Projectile	WNW to ESE	N/K	5-Mar, 04:42
SMM camera 1.5km NE of Hnutove (government-controlled, 20km NE of Mariupol)	2-4km ENE	Recorded	1	Projectile	W to E	N/K	4-Mar, 19:20
	2-4km ENE	Recorded	1	Explosion	Undetermined	N/K	4-Mar, 19:20
	2-4km ESE	Recorded	1	Projectile	S to N	N/K	4-Mar, 19:32
	2-4km ESE	Recorded	1	Muzzle flash		N/K	4-Mar, 19:32
	3-5km ESE	Recorded	3	Projectile	S to N	N/K	5-Mar, 01:15
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	2-4km E	Recorded	2	Projectile	N to S	N/K	4-Mar, 18:23
	2-4km ENE	Recorded	1	Explosion	Undetermined	N/K	4-Mar, 18:23
	2-4km E	Recorded	1	Projectile	N to S	N/K	4-Mar, 18:24
	2-4km ENE	Recorded	1	Burst	S to N	N/K	4-Mar, 21:07
SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)	2-4km NNE	Recorded	1	Illumination flare	In vertical flight	N/K	4-Mar, 22:56
SMM camera at entry-exit checkpoint in Pyshevyk (government-controlled, 25km NE of Mariupol)	1-2km SSW	Recorded	4	Projectile	E to W	N/K	4-Mar, 18:58
	1-3km S	Recorded	6	Projectile	W to E	N/K	4-Mar, 19:03
	1-3km S	Recorded	1	Explosion	Undetermined	N/K	4-Mar, 19:03
	3-5km SSE	Recorded	3	Projectile	ENE to WSW	N/K	4-Mar, 19:21
	1-3km SSE	Recorded	2	Projectile	W to E	N/K	4-Mar, 19:29
	2-4km S	Recorded	2	Projectile	E to W	N/K	4-Mar, 19:29
	2-3km S	Recorded	16	Projectile	W to E	N/K	4-Mar, 19:33
	2-4km SSE	Recorded	2	Projectile	WNW to ESE	N/K	4-Mar, 20:54
	2-4km S	Recorded	3	Projectile	E to W	N/K	4-Mar, 21:17
	2-4km S	Recorded	6	Projectile	E to W	N/K	4-Mar, 21:18
	2-4km SSE	Recorded	1	Projectile	E to W	N/K	5-Mar, 01:43
	2-4km SSE	Recorded	3	Projectile	E to W	N/K	5-Mar, 02:26
SMM camera at entry-exit checkpoint in Pyshevyk (government-controlled, 25km NE of Mariupol)	1-2km SSE	Recorded	1	Explosion	Undetermined	N/K	5-Mar, 18:17
	1-2km SSE	Recorded	4	Projectile	E to W	N/K	5-Mar, 18:18
	3-5km SSE	Recorded	4	Projectile	ENE to WSW	N/K	5-Mar, 18:19
	1-2km SSE	Recorded	3	Projectile	W to E	N/K	5-Mar, 18:26
Donetsk (non-government-controlled, about 8km NW of the city centre)	1.5-2km NNW	Heard	1	Explosion	Undetermined	N/K	5-Mar, 09:36
	2-4km NNW	Heard	1	Explosion	Undetermined	N/K	5-Mar, 10:22
	2-4km NNW	Heard	1	Explosion	Undetermined	N/K	5-Mar, 10:27
	2-3km NW	Heard	1	Explosion	Undetermined	N/K	5-Mar, 10:35
NNW part of Dokuchaievsk (non-government-controlled, 30km SW of Donetsk)	3-5km WNW	Heard	3	Explosion	Undetermined	N/K	5-Mar, 10:10
	3-5km WNW	Heard	1	Explosion	Undetermined	N/K	5-Mar, 10:25
	2-3km WSW	Heard	1	Shot		Small arms	5-Mar, 12:00
About 1km NW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	4-6km SW	Heard	6	Explosion	Undetermined	N/K	5-Mar, 09:27
	2-3km SW	Heard	1	Shot		HMG	5-Mar, 09:33
	4-6km SW	Heard	2	Explosion	Undetermined	N/K	5-Mar, 09:36
	5-7km SW	Heard	1	Explosion	Undetermined	N/K	5-Mar, 09:44
	2-3km SW	Heard	4	Shot		HMG	5-Mar, 12:32
	2-3km SW	Heard	4	Shot		Small arms	5-Mar, 12:35
	2-3km SW	Heard	2	Explosion	Undetermined	N/K	5-Mar, 12:35
	2-3km SW	Heard	6	Burst		Small arms	5-Mar, 12:35
	2-3km SW	Heard	5	Burst		Small arms	5-Mar, 12:40

	3-4km W	Heard	11	Burst		HMG	5-Mar, 12:51-12:56
	1-1.5km SW	Heard	4	Burst		HMG	5-Mar, 13:13
	1-1.5km S	Heard	1	Explosion	Undetermined	N/K	5-Mar, 13:19
	1-1.5km SW	Heard	1	Explosion	Undetermined	N/K	5-Mar, 13:31
E outskirts of Marinka (government-controlled, 23km SW of Donetsk)	1km NE	Heard	2	Explosion	Undetermined	N/K	5-Mar, 11:22-11:24
	3-6km NE	Heard	1	Explosion	Undetermined	N/K	5-Mar, 12:02
SE part of Avdiivka (government-controlled, 17km N of Donetsk)	2-4km E	Heard	2	Explosion	Undetermined	N/K	5-Mar, 10:11
	2-4km E	Heard	2	Explosion	Undetermined	N/K	5-Mar, 11:34
Oleksandrivka (non-government-controlled, 20km SW of Donetsk)	1-2km W	Heard	10	Burst		Small arms	5-Mar, 15:53
	1-2km W	Heard	1	Shot		Small arms	5-Mar, 15:55
1km NNW of Pyshevyk (government-controlled, 25km NE of Mariupol)	N/K SE	Heard	1	Explosion	Undetermined	N/K	5-Mar, 09:39
Orlivske (government-controlled, 23km NE of Mariupol)	2-4km SE	Heard	4	Shot		Small arms	5-Mar, 10:51
Horlivka (non-government-controlled, 39km NE of Donetsk)	4-5km WSW	Heard	1	Explosion	Undetermined	N/K	4-Mar, 18:27
	3-4km WSW	Heard	2	Burst		HMG	4-Mar, 19:05-19:08
	3-4km WSW	Heard	3	Burst		HMG	4-Mar, 19:10-19:13
	4-5km WSW	Heard	1	Explosion	Undetermined	N/K	4-Mar, 19:14
	3-4km WSW	Heard	3	Explosion	Undetermined	N/K	4-Mar, 19:21
	4-5km WSW	Heard	1	Explosion	Undetermined	N/K	4-Mar, 19:29
	3-4km WSW	Heard	5	Burst		HMG	4-Mar, 19:37-19:39
	3-4km WSW	Heard	1	Explosion	Undetermined	N/K	4-Mar, 19:43
	4-5km WSW	Heard	1	Explosion	Undetermined	N/K	4-Mar, 19:52
	3-4km WSW	Heard	3	Burst		HMG	4-Mar, 19:56
	4-5km WSW	Heard	2	Explosion	Undetermined	N/K	4-Mar, 19:58
	3-4km WSW	Heard	2	Burst		HMG	4-Mar, 19:59
	4-5km WSW	Heard	1	Explosion	Undetermined	N/K	4-Mar, 20:00
	3-4km WSW	Heard	4	Explosion	Undetermined	N/K	4-Mar, 20:04
	3-4km WSW	Heard	14	Burst		HMG	4-Mar, 20:14-20:18
	3-4km WSW	Heard	7	Explosion	Undetermined	N/K	4-Mar, 20:20-20:22
	3-4km WSW	Heard	2	Burst		HMG	4-Mar, 20:24
	3-4km WSW	Heard	8	Burst		HMG	4-Mar, 20:33-20:36
	3-4km WSW	Heard	1	Explosion	Undetermined	N/K	4-Mar, 22:31
	3-4km WSW	Heard	7	Burst		HMG	4-Mar, 22:33-22:37
	3-4km WSW	Heard	4	Burst		HMG	4-Mar, 22:44
	4-5km WSW	Heard	1	Explosion	Undetermined	N/K	4-Mar, 22:54
	3-4km WSW	Heard	32	Burst		HMG	4-Mar, 23:03-23:23
4-5km WSW	Heard	1	Explosion	Undetermined	N/K	4-Mar, 23:24	
3-4km WSW	Heard	26	Burst		HMG	4-Mar, 23:28-23:37	
Svitlodarsk (government-controlled, 57km NE of Donetsk)	2-4km SW	Heard	4	Explosion	Undetermined	N/K	4-Mar, 19:17-19:20
	2-4km SW	Heard	1	Explosion	Undetermined	N/K	4-Mar, 19:58
	2-4km SW	Heard	4	Explosion	Undetermined	N/K	4-Mar, 20:30-

							20:31
	2-4km SW	Heard	1	Explosion	Undetermined	N/K	4-Mar, 20:50
	3-4km SSE	Heard	7	Burst		HMG	4-Mar, 21:00-21:02
	3-4km SSE	Heard	1	Explosion	Undetermined	N/K	4-Mar, 21:02
	3-4km SSE	Heard	1	Explosion	Undetermined	N/K	4-Mar, 23:50
	4-6km SW	Heard	1	Explosion	Undetermined	N/K	5-Mar, 13:35
	4km SW	Heard	8	Explosion	Undetermined	N/K	5-Mar, 16:00-16:10
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	4km SE	Heard	2	Explosion	Undetermined	N/K	5-Mar, 10:10
	4-5km SW	Heard	1	Explosion	Undetermined	N/K	5-Mar, 10:34
	1-2km SW	Heard	1	Explosion	Undetermined	N/K	5-Mar, 13:15
	2-3km SE	Heard	1	Explosion	Undetermined	N/K	5-Mar, 13:30
W edge of Novoluhanske (government-controlled, 53km NE of Donetsk)	3-4km S	Heard	1	Explosion	Undetermined	N/K	5-Mar, 10:13
SW edge of Novoluhanske (government-controlled, 53km NE of Donetsk)	4-5km SW	Heard	1	Explosion	Undetermined	N/K	5-Mar, 11:33
	4-5km S	Heard	2	Explosion	Undetermined	N/K	5-Mar, 11:35
	1-2km SW	Heard	1	Explosion	Undetermined	N/K	5-Mar, 13:10
Holmivskiyi (non-government-controlled, 49km NE of Donetsk)	3-4km E	Heard	8	Burst		HMG	5-Mar, 10:35
3km E of Luhansk (non-government-controlled)	4-5km SE	Heard	20	Shot		N/K	5-Mar, 08:55-09:10
NE edge of Kalynove-Borshchuvate (non-government-controlled, 61km W of Luhansk)	6-7km SW	Heard	6	Explosion	Undetermined	N/K	5-Mar, 09:07-09:20
3km WSW of Almazna (non-government-controlled, 55km W of Luhansk)	3-5km SSW	Heard	3	Explosion	Undetermined	N/K	5-Mar, 09:18-09:25
W edge of Berezivske (non-government-controlled, 53km NW of Luhansk)	5-6km NNW	Heard	1	Explosion	Undetermined	N/K	5-Mar, 10:54
N edge of Yuzhna Lomuvatka (non-government-controlled, 60km W of Luhansk)	7-10km W	Heard	7	Explosion	Undetermined	N/K	5-Mar, 11:10-11:18
1.5km SW of Molodizhne (non-government-controlled, 63km W of Luhansk)	1-2km SW	Heard	1	Explosion	Undetermined	N/K	5-Mar, 14:21

## 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 bases from which SMM staff has temporarily relocated based on recommendations of security experts from participating States as well as SMM security considerations).