

**Table of ceasefire violations as of 19 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 SSE	Recorded	1	Projectile	WSW to ENE	N/K	19-Mar, 18:03
	2-4km SSE	Recorded	1	Muzzle flash		N/K	19-Mar, 18:03
	2-4km SSE	Recorded	1	Explosion	Airburst	N/K	19-Mar, 18:03
	2-4km SSE	Recorded	1	Projectile	NE to SW	N/K	19-Mar, 18:22
	2-4km SSE	Recorded	4	Projectile	ENE to WSW	N/K	19-Mar, 19:36
	2-4km SSE	Recorded	4	Projectile	ENE to WSW	N/K	19-Mar, 19:37
	2-4km SE	Recorded	4	Projectile	ENE to WSW	N/K	19-Mar, 19:41
	2-4km SE	Recorded	7	Burst	ENE to WSW	N/K	19-Mar, 19:42
	2-4km SE	Recorded	8	Projectile	ENE to WSW	N/K	19-Mar, 20:44
	2-4km SSE	Recorded	5	Projectile	NE to SW	N/K	19-Mar, 21:46
	2-4km SE	Recorded	3	Projectile	ENE to WSW	N/K	20-Mar, 01:16
	2-4km SE	Recorded	6	Projectile	ENE to WSW	N/K	20-Mar, 01:42
	2-4km SE	Recorded	3	Projectile	In vertical flight	N/K	20-Mar, 01:42
	5-7km SSE	Recorded	19	Projectile	ENE to WSW	N/K	20-Mar, 02:28
	4-6km SE	Recorded	1	Explosion	Impact	N/K	20-Mar, 02:54
	4-6km SE	Recorded	8	Projectile	ENE to WSW	N/K	20-Mar, 02:55
	4-6km SE	Recorded	11	Projectile	ENE to WSW	N/K	20-Mar, 03:29
	2-4km SE	Recorded	3	Projectile	ENE to WSW	N/K	20-Mar, 03:30
	2-4km SE	Recorded	4	Projectile	ENE to WSW	N/K	20-Mar, 04:23
	SMM camera at Donetsk Filtration Station (15km N of Donetsk)	1-2km SSW	Recorded	1	Projectile	In vertical flight	N/K
1-2km SW		Recorded	1	Projectile	W to E	N/K	19-Mar, 18:48
0.5-1km S		Recorded	2	Projectile	E to W	N/K	19-Mar, 20:27
1-3km SW		Recorded	2	Explosion	Undetermined	N/K	19-Mar, 20:50
1-3km SSW		Recorded	1	Explosion	Undetermined	N/K	19-Mar, 20:51
1-2km SSW		Recorded	1	Projectile	NW to SE	N/K	19-Mar, 21:07
1-3km SSW		Recorded	1	Explosion	Undetermined	N/K	19-Mar, 21:08
0.8-1.5km SW		Recorded	1	Illumination flare	In vertical flight	N/K	19-Mar, 21:09
1-3km SSW		Recorded	4	Explosion	Undetermined	N/K	19-Mar, 21:09
1-3km SSW		Recorded	4	Explosion	Undetermined	N/K	19-Mar, 21:10
0.8-1.5km SW		Recorded	2	Projectile	NW to SE	N/K	19-Mar, 21:12
0.8-1.5km SW		Recorded	3	Projectile	NW to SE	N/K	19-Mar, 21:13
600-800m S		Recorded	1	Projectile	W to E	N/K	19-Mar, 21:29
600-800m S		Recorded	2	Explosion	Undetermined	N/K	19-Mar, 21:29
0.7-1km SSW		Recorded	1	Projectile	In vertical flight	N/K	19-Mar, 21:39
1-3km SSW		Recorded	1	Explosion	Undetermined	N/K	19-Mar, 21:57
0.5-1.5km SSW	Recorded	1	Explosion	Undetermined	N/K	19-Mar, 23:07	
SMM camera in Hranitne (government-controlled, 60km S of Donetsk)	1.5-3km E	Recorded	1	Explosion	Undetermined	N/K	19-Mar, 20:49
SMM camera 1.5km NE of Hnutove (government-controlled, 20km NE of	200-500m ESE	Recorded	1	Explosion	Undetermined	N/K	20-Mar, 18:03

<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.

Mariupol)							
SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)	2-4km NNE	Recorded	5	Projectile	W to E	N/K	19-Mar, 18:32
	2-4km NNE	Recorded	29	Projectile	W to E	N/K	19-Mar, 18:33
	2-4km NNE	Recorded	3	Projectile	W to E	N/K	19-Mar, 18:34
	2-4km NNE	Recorded	1	Explosion	Impact	N/K	19-Mar, 18:34
	2-4km NNE	Recorded	1	Projectile	SW to NE	N/K	19-Mar, 22:07
	2-4km NNE	Recorded	1	Projectile	SSW to NNE	N/K	19-Mar, 22:20
	2-4km NNE	Recorded	1	Illumination flare	In vertical flight	N/K	20-Mar, 03:16
	3-4km ENE	Recorded	1	Explosion	Undetermined	N/K	19-Mar, 21:09
	3-5km ENE	Recorded	6	Projectile	N to S	N/K	19-Mar, 21:16
3-5km ENE	Recorded	4	Projectile	N to S	N/K	19-Mar, 21:17	
SMM camera at entry-exit checkpoint in Pyshevyk (government-controlled, 25km NE of Mariupol)	3-5km SSE	Recorded	2	Projectile	E to W	N/K	19-Mar, 21:44
	4-6km S	Recorded	3	Projectile	W to E	N/K	19-Mar, 22:19
	3-5km S	Recorded	2	Projectile	E to W	N/K	19-Mar, 23:50
	3-5km SSE	Recorded	2	Projectile	E to W	N/K	20-Mar, 00:50
About 1km NW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	4-5km S	Recorded	4	Projectile	E to W	N/K	20-Mar, 01:53
	1-2km SW	Heard	12	Shot		Small arms	20-Mar, 09:16
	1-2km SW	Heard	4	Shot		Small arms	20-Mar, 09:17
	8-10km SW	Heard	2	Explosion	Undetermined	N/K	20-Mar, 09:18-09:28
	5-6km SW	Heard	10	Explosion	Undetermined	N/K	20-Mar, 09:34-09:35
	2km SW	Heard	2	Shot		HMG	20-Mar, 09:35
	5-6km SW	Heard	22	Explosion	Undetermined	N/K	20-Mar, 09:36-09:39
	5-6km SW	Heard	1	Shot		Small arms	20-Mar, 09:39
	5-6km SW	Heard	3	Explosion	Undetermined	N/K	20-Mar, 09:40
	1-2km SW	Heard	1	Shot		HMG	20-Mar, 09:40
	5-6km SW	Heard	4	Explosion	Undetermined	N/K	20-Mar, 09:41-09:44
	2-3km SW	Heard	49	Shot		Cannon (30mm)	20-Mar, 09:44-09:48
	2-3km SW	Heard	46	Shot		Cannon (30mm)	20-Mar, 09:49-09:50
	3-5km S	Heard	3	Explosion	Undetermined	N/K	20-Mar, 09:52-09:55
	3-4km SW	Heard	1	Explosion	Undetermined	N/K	20-Mar, 09:59
	4-5km SW	Heard	1	Explosion	Undetermined	N/K	20-Mar, 10:01
	4-5km SE	Heard	1	Explosion	Undetermined	N/K	20-Mar, 10:08
	2km SW	Heard	1	Explosion		Mortar (type N/K)	20-Mar, 10:08
	3-4km W	Heard	1	Explosion	Undetermined	N/K	20-Mar, 10:08
	3-4km S	Heard	2	Explosion	Undetermined	N/K	20-Mar, 10:09-10:11
	2-3km SW	Heard	1	Explosion	Undetermined	N/K	20-Mar, 10:13
	2-3km SW	Heard	1	Shot		HMG	20-Mar, 10:14
	2-3km SSW	Heard	1	Explosion	Undetermined	Mortar (type N/K)	20-Mar, 10:15
	4-5km N	Heard	9	Shot		Cannon (30mm)	20-Mar, 10:17
	2-3km SSW	Heard	1	Explosion	Undetermined	N/K	20-Mar, 10:18
	3-4km SW	Heard	1	Explosion	Impact	N/K	20-Mar, 10:19
	2-4km SW	Heard		Burst		HMG	20-Mar, 10:18
3-4km WSW	Heard	1	Explosion	Undetermined	N/K	20-Mar, 10:21	
3-4km SW	Heard	1	Explosion	Impact	N/K	20-Mar, 10:25	
3km SW	Heard	1	Explosion	Impact	N/K	20-Mar, 10:25	

4-5km WSW	Heard	1	Explosion	Undetermined	N/K	20-Mar, 10:27
3km SW	Heard	1	Explosion	Impact	N/K	20-Mar, 10:28
3-4km SW	Heard	2	Explosion	Undetermined	N/K	20-Mar, 10:29
4-5km N	Heard		Burst		HMG	20-Mar, 10:31
4km N	Heard	45	Shot		Cannon (30mm)	20-Mar, 10:31
3-4km SW	Heard	2	Explosion	Undetermined	N/K	20-Mar, 10:34
4km WSW	Heard	4	Explosion	Outgoing	N/K	20-Mar, 10:35
3-4km SW	Heard	2	Explosion	Impact	Mortar (type N/K)	20-Mar, 10:35
4km WSW	Heard	1	Explosion	Outgoing	Mortar (type N/K)	20-Mar, 10:38
3-4km SW	Heard and saw	1	Explosion	Impact	N/K	20-Mar, 10:39
3-4km SW	Heard	10	Shot		HMG	20-Mar, 10:38-10:41
6-8km N	Heard		Shot	Uncountable	HMG	20-Mar, 10:38-10:40
4km WSW	Heard	1	Explosion	Outgoing	Mortar (type N/K)	20-Mar, 10:42
3-4km SW	Heard and saw	1	Explosion	Impact	N/K	20-Mar, 10:42
4km WSW	Heard	1	Explosion	Outgoing	Mortar (type N/K)	20-Mar, 10:44
3-4km SW	Heard	1	Explosion	Impact	N/K	20-Mar, 10:44
4km WSW	Heard	2	Explosion	Undetermined	Mortar (type N/K)	20-Mar, 10:45
3-4km SW	Heard	2	Explosion	Impact	N/K	20-Mar, 10:45
4km WSW	Heard	1	Explosion	Outgoing	Mortar (type N/K)	20-Mar, 10:46
3km SW	Heard and saw	1	Explosion	Impact	N/K	20-Mar, 10:47
4km WSW	Heard	1	Explosion	Outgoing	Mortar (type N/K)	20-Mar, 10:49
3-4km SW	Heard and saw	1	Explosion	Impact	N/K	20-Mar, 10:49
4km WSW	Heard	1	Explosion	Outgoing	Mortar (type N/K)	20-Mar, 10:50
3-4km SW	Heard and saw	1	Explosion	Impact	N/K	20-Mar, 10:50
4km WSW	Heard	1	Explosion	Outgoing	Mortar (type N/K)	20-Mar, 10:51
3-4km SW	Heard and saw	1	Explosion	Impact	Mortar (type N/K)	20-Mar, 10:51
2-3km SW	Heard	37	Shot		Small arms	20-Mar, 10:48-10:53
4-5km WSW	Heard	2	Explosion	Undetermined	N/K	20-Mar, 10:52
4-5km WSW	Heard	1	Explosion	Undetermined	N/K	20-Mar, 10:55
3-4km SW	Heard	4	Explosion	Undetermined	N/K	20-Mar, 10:59
2km SW	Heard	12	Shot		Small arms	20-Mar, 11:00-11:02
3-4km SW	Heard	1	Explosion	Undetermined	N/K	20-Mar, 11:02
3-4km SW	Heard	1	Explosion	Undetermined	N/K	20-Mar, 11:06
3-4km SW	Heard	1	Explosion	Undetermined	N/K	20-Mar, 11:10
3-4km SSW	Heard	1	Explosion	Undetermined	N/K	20-Mar, 11:13

3-4km W	Heard	1	Explosion	Impact	N/K	20-Mar, 11:14
2-3km S	Heard	8	Shot		Small arms	20-Mar, 11:15
3-4km S	Heard	1	Explosion	Outgoing	Mortar (type N/K)	20-Mar, 11:16
3-4km WSW	Heard	1	Explosion	Impact	N/K	20-Mar, 11:17
3-4km S	Heard	1	Explosion	Outgoing	Mortar (type N/K)	20-Mar,
3-4km WSW	Heard	1	Explosion	Impact	N/K	20-Mar, 11:20
2-3km SW	Heard	12	Shot		Small arms	20-Mar, 11:25-11:26
3-4km S	Heard	1	Explosion	Outgoing	Mortar (type N/K)	20-Mar, 11:26
3-4km WSW	Heard	1	Explosion	Impact	N/K	20-Mar, 11:27
2-3km SW	Heard	15	Shot		Small arms	20-Mar, 12:33-12:37
2-3km N	Heard		Shot	Uncountable	Small arms	20-Mar, 12:33-12:37
4-6km N	Heard	1	Explosion	Undetermined	N/K	20-Mar, 12:43
3-4km N	Heard	6	Shot		Cannon (30mm)	20-Mar, 12:47
2-3km SW	Heard	12	Burst		Small arms	20-Mar, 12:53
2-3km SW	Heard and saw	4	Explosion	Undetermined	N/K	20-Mar, 13:04
4-5km W	Heard	3	Explosion	Undetermined	N/K	20-Mar, 13:06-13:08
2-3km SW	Heard	12	Burst		HMG	20-Mar, 13:00
4km SW	Heard	10	Shot		HMG	20-Mar, 13:08
4-5km SW	Heard	4	Shot		HMG	20-Mar, 13:09
4-5km W	Heard	1	Explosion	Undetermined	N/K	20-Mar, 13:11
2-3km SW	Heard	2	Explosion	Undetermined	N/K	20-Mar, 13:12
3-5km SW	Heard	3	Explosion	Undetermined	N/K	20-Mar, 13:13
2-3km SW	Heard and saw	2	Explosion	Undetermined	N/K	20-Mar, 13:13
2-3km SW	Heard	90	Shot		Small arms	20-Mar, 13:00-13:15
3-5km W	Heard	2	Explosion	Undetermined	N/K	20-Mar, 13:14
2-3km SW	Heard and saw	6	Explosion	Impact	N/K	20-Mar, 13:14-13:19
3-5km S	Heard		Shot and burst	Uncountable, overlapping	Small arms	20-Mar, 13:15-13:40
8-10km SW	Heard	6	Explosion	Undetermined	N/K	20-Mar, 13:21
2-3km SW	Heard		Shot and burst	Uncountable, overlapping	Small arms	20-Mar, 13:20-13:24
2-3km SW	Heard	15	Shot		Small arms	20-Mar, 13:25-13:28
3km S	Heard	12	Shot		Small arms	20-Mar, 13:27
6-8km SW	Heard	1	Explosion	Impact	N/K	20-Mar, 13:29
3-4km SW	Heard	4	Explosion	Undetermined	N/K	20-Mar, 13:30
3-4km SW	Heard	3	Explosion	Impact	N/K	20-Mar, 13:31
3km SW	Heard	1	Explosion	Impact	N/K	20-Mar, 13:32
2-3km SW	Heard and saw	100	Shot		Small arms	20-Mar, 13:32
2.5km SW	Heard and saw	1	Explosion	Impact	N/K	20-Mar, 13:33
3-4km SW	Heard	1	Explosion	Impact	N/K	20-Mar, 13:35
2-3km SW	Heard	55	Shot		Small arms	20-Mar, 13:35-13:37
2-3km SW	Heard	59	Shot		Small arms	20-Mar, 13:38

	3-4km SW	Heard	2	Explosion	Undetermined	N/K	20-Mar, 13:43
	2-3km SW	Heard	27	Shot		Small arms	20-Mar, 13:50
	2-3km SW	Heard	10	Shot		Small arms	20-Mar, 13:51
	3-4km SW	Heard	1	Explosion	Undetermined	N/K	20-Mar, 13:53
	3-4km SW	Heard and saw	1	Explosion	Impact	N/K	20-Mar, 13:56
	4km WNW	Heard	1	Explosion	Outgoing	Mortar (type N/K)	20-Mar, 13:59
	3-4km SW	Heard	1	Explosion	Impact	N/K	20-Mar, 13:59
	3-4km SW	Heard	1	Explosion	Impact	N/K	20-Mar, 14:00
	2-3km SW	Heard		Shot	Uncountable	Small arms	20-Mar, 14:01
	3-5km W	Heard	1	Explosion	Outgoing	Mortar (type N/K)	20-Mar, 14:04
	3-4km W	Heard	1	Explosion	Undetermined	N/K	20-Mar, 14:05
	2-4km SW	Heard	2	Explosion	Impact	N/K	20-Mar, 14:07
	3-4km SW	Heard	2	Explosion	Impact	N/K	20-Mar, 14:08
	4-5km W	Heard	1	Explosion	Outgoing	Mortar (type N/K)	20-Mar, 14:09
	3km SW	Heard	1	Explosion	Impact	N/K	20-Mar, 14:09
	2-3km SW	Heard		Shot	Uncountable, overlapping	Small arms	20-Mar, 14:10
Yasynuvata Railway station (non-government-controlled, 16km NE of Donetsk)	3-4km W	Heard	1	Explosion	Undetermined	N/K	20-Mar, 11:53
	4-6km W	Heard	1	Explosion	Impact	N/K	20-Mar, 11:54
	3-4km W	Heard	1	Explosion	Undetermined	N/K	20-Mar, 11:56
	4-6km W	Heard	1	Explosion	Undetermined	N/K	20-Mar, 11:57
	4-6km WNW	Heard	2	Explosion	Undetermined	N/K	20-Mar, 11:59
	2-3km W	Heard	2	Shot		HMG	20-Mar, 12:00
	4-6km W	Heard	9	Explosion	Undetermined	N/K	20-Mar, 12:01-12:03
	4-6km W	Heard	2	Explosion	Undetermined	N/K	20-Mar, 12:04
	4-6km W	Heard	1	Explosion	Undetermined	N/K	20-Mar, 12:05
	4-5km W	Heard	1	Explosion	Undetermined	N/K	20-Mar, 12:06
Donetsk central railway station (non-government-controlled, 6km NW of Donetsk city centre)	4-6km W	Heard	4	Explosion	Undetermined	N/K	20-Mar, 12:07
	4-6km WNW	Heard	1	Explosion	Undetermined	N/K	20-Mar, 12:11
	3-5km W	Heard	2	Explosion	Undetermined	N/K	20-Mar, 08:49-08:52
	2-3km W	Heard	9	Explosion	Undetermined	N/K	20-Mar, 08:53-09:08
	3-4km W	Heard	11	Explosion	Undetermined	N/K	20-Mar, 09:14-09:30
	2-3km W	Heard	44	Explosion	Undetermined	N/K	20-Mar, 09:34-09:45
	4-5km N	Heard	26	Shot		Small arms	20-Mar, 09:46-09:49
	2-3km W	Heard	2	Explosion	Undetermined	N/K	20-Mar, 09:52
	2-3km NNW	Heard	4	Shot		Small arms	20-Mar, 09:52
	4-5km W	Heard	1	Explosion	Undetermined	N/K	20-Mar, 10:35
	5-6km N	Heard	2	Explosion	Undetermined	N/K	20-Mar, 10:36-10:41
	5-6km NE	Heard	1	Explosion	Undetermined	N/K	20-Mar, 10:45
	5-6km NE	Heard	1	Explosion	Undetermined	N/K	20-Mar, 10:46-10:48
5-6km NNE	Heard	3	Explosion	Undetermined	N/K	20-Mar, 10:49-10:50	
5-6km NNE	Heard	1	Explosion	Undetermined	N/K	20-Mar, 11:00	
About 5.3km NE of Petrovskiyi	4-6km NW	Heard	3	Explosion	Undetermined	N/K	20-Mar, 09:05-09:07

district (non-government-controlled, 15km SW of Donetsk city centre)							
SE edge of Avdiivka (government-controlled, 17km N of Donetsk)	3-5km S	Heard	16	Explosion	Undetermined	N/K	20-Mar, 09:36-09:42
	3-5km S	Heard	5	Explosion	Undetermined	N/K	20-Mar, 10:21-10:26
	2-4km NE	Heard	3	Explosion	Undetermined	N/K	20-Mar, 10:45
	2-4km NE	Heard	1	Explosion	Undetermined	N/K	20-Mar, 11:15
	N/K E	Heard	1	Explosion	Impact	N/K	20-Mar, 11:19
About 2km N of Petrivske (non-government-controlled, 41km S of Donetsk)	3-4km ESE	Heard	4	Explosion	Undetermined	N/K	20-Mar, 13:32
	2-4km SE	Heard	27	Shot	Assessed as outside disengagement area	Small arms	20-Mar, 09:42-09:44
	8-10km S	Heard	2	Explosion	Undetermined (assessed as outside disengagement area )	N/K	20-Mar, 10:25
	1-2km SE	Heard	17	Shot	Assessed as outside disengagement area	Small arms	20-Mar, 10:29-10:35
About 1m NE of Luhanske (non-government-controlled, 15km SW of Donetsk)	1km S	Heard	8	Shot	Assessed as outside disengagement area	Small arms	20-Mar, 10:30
	1km N	Heard	9	Shot		Small arms	20-Mar, 09:46-09:51
About 1.4km SE of Pervomaiske (government-controlled, 17km NW of Donetsk)	2-4km NW	Heard	2	Explosion	Undetermined	N/K	20-Mar, 09:56
	3-5km SSE	Heard	50	Explosion	Undetermined	N/K	20-Mar, 09:20-09:40
About 3km SSE of Lozove (government-controlled, 51km NE of Donetsk)	3-5km SSE	Heard	15	Explosion	Undetermined	N/K	20-Mar, 10:15-10:30
	2-3km N	Heard	16	Shot		Small arms	20-Mar, 11:38
	2-3km N	Heard	9	Explosion	Undetermined	N/K	20-Mar, 11:38
	2-3km N	Heard	1	Shot		Small arms	20-Mar, 11:42
	2-3km N	Heard	1	Burst		HMG	20-Mar, 11:42
	2-3km N	Heard	22	Shot		Cannon (30mm)	20-Mar, 11:45
	2-3km N	Heard	34	Shot		Cannon (30mm)	20-Mar, 11:47
	2-3km N	Heard	2	Explosion	Undetermined	N/K	20-Mar, 11:47
	2-3km N	Heard	13	Shot		Cannon (30mm)	20-Mar, 11:50
2.5km SSE of Lomakyne (government-controlled, 15km NE of	2-3km N	Heard	5	Explosion	Undetermined	N/K	20-Mar, 11:50
	2-3km N	Heard	8	Shot		Small arms	20-Mar, 11:54
1km ENE	Heard	4	Shot	Undetermined	N/K	1-Feb, 12:49	

Mariupol)							
Lebedynske (government-controlled, 16km NE of Mariupol)	N/K NE	Heard	2	Explosion	Undetermined	N/K	20-Mar, 11:42
	N/K NE	Heard	4	Explosion	Undetermined	N/K	20-Mar, 11:52
1km NNW of Pyshevyk (government-controlled, 25km NE of Mariupol)	N/K NE	Heard	2	Shot		Small arms	20-Mar, 09:45
	N/K NE	Heard	3	Burst		Small arms	20-Mar, 09:47
	N/K NE	Heard	2	Shot		Small arms	20-Mar, 14:11
Svitlodarsk (government-controlled, 57km NE of Donetsk)	3-4km WSW	Heard	10	Burst		Small arms	19-Mar, 18:38
	3-4km WSW	Heard	4	Burst		Small arms	19-Mar, 18:55
	3-4km WSW	Heard	10	Burst		Small arms	19-Mar, 18:58-19:00
	4-5km SW	Heard	5	Shot		HMG	19-Mar, 19:00-19:01
	3-4km WSW	Heard	6	Burst		Small arms	19-Mar, 19:15
	4-5km SW	Heard	2	Explosion	Undetermined	N/K	19-Mar, 19:15
	4-5km SW	Heard		Shot and burst	Uncountable, overlapping	HMG	19-Mar, 19:26
	5-6km SW	Heard	3	Explosion	Undetermined	N/K	19-Mar, 19:28
	5-6km SW	Heard	1	Burst		HMG	19-Mar, 19:28
	4-5km SSW	Heard	1	Explosion	Undetermined	N/K	19-Mar, 19:30
	3-4km W	Heard	5	Burst		Small arms	19-Mar, 19:33-19:34
	5-6km W	Heard	11	Burst		HMG	19-Mar, 19:38-19:40
	6-7km W	Heard	2	Explosion	Undetermined	N/K	19-Mar, 19:39
	3-4km W	Heard	2	Burst		Small arms	19-Mar, 19:44
	4-5km SW	Heard	3	Explosion	Undetermined	N/K	19-Mar, 19:45
	3-4km SSW	Heard	5	Burst		Small arms	19-Mar, 19:47
	4-5km SW	Heard	3	Burst		HMG	19-Mar, 19:54
	3-4km SW	Heard	1	Burst		Small arms	19-Mar, 19:56
	4-5km W	Heard	5	Shot		HMG	19-Mar, 19:57
	3-4km W	Heard	12	Burst		Small arms	19-Mar, 20:37-20:40
	3-4km W	Heard	3	Burst		HMG	19-Mar, 20:42
	3-4km SW	Heard	10	Burst		Small arms	19-Mar, 20:50
	3-4km W	Heard	8	Burst		Small arms	19-Mar, 20:54
	3-4km WSW	Heard	2	Burst		Small arms	19-Mar, 21:22
	3-4km WSW	Heard	7	Burst		Small arms	19-Mar, 21:26
	3-4km W	Heard	6	Shot		Small arms	19-Mar, 21:43
	3-4km WSW	Heard		Shot and burst	Uncountable, overlapping	Small arms	19-Mar, 21:56-22:00
	6-7km W	Heard	4	Explosion	Undetermined	N/K	19-Mar, 22:14-22:18
	4-5km W	Heard	6	Burst		HMG	19-Mar, 22:26-22:29
	5-6km SW	Heard	1	Explosion	Undetermined	N/K	19-Mar, 22:31
3-4km SSW	Heard		Shot and burst	Uncountable overlapping	Small arms	19-Mar, 22:34	
4-5km SSW	Heard	2	Burst		HMG	19-Mar, 22:34	

	6-7km W	Heard	1	Explosion	Undetermined	N/K	19-Mar, 22:36
	5-6km SW	Heard	3	Burst		HMG	19-Mar, 22:37
	5-6km W	Heard	3	Burst		HMG	19-Mar, 22:41
	3-4km WSW	Heard	9	Burst		Small arms	19-Mar, 23:05-23:07
	6-7km W	Heard	3	Explosion	Undetermined	N/K	19-Mar, 23:09-23:15
	3-4km SSW	Heard	3	Burst		Small arms	19-Mar, 23:17
	6-7km W	Heard	1	Explosion	Undetermined	N/K	19-Mar, 23:20
	3-4km SW	Heard	3	Burst		Small arms	19-Mar, 23:33
	4-5km WSW	Heard	2	Explosion	Undetermined	N/K	20-Mar, 09:10-09:13
	4-5km WSW	Heard	10	Burst		Small arms	20-Mar, 09:10-09:13
	4-5km WSW	Heard	6	Burst		Small arms	20-Mar, 09:15-09:20
	4-5km WSW	Heard	2	Explosion	Undetermined	N/K	20-Mar, 09:15-09:20
	5-6km SW	Heard	7	Burst		HMG	20-Mar, 10:30-10:40
	5-6km S	Heard	10	Burst		Small arms	20-Mar, 10:30-10:40
	5-6km S	Heard	2	Explosion	Undetermined	N/K	20-Mar, 10:30-10:40
	3-4km S	Heard	3	Burst		Small arms	20-Mar, 10:50-11:00
	3-4km S	Heard	6	Shot		Small arms	20-Mar, 10:50-11:00
	4-5km SSW	Heard	4	Explosion	Undetermined	N/K	20-Mar, 12:36
	4-5km SSW	Heard	2	Explosion	Undetermined	N/K	20-Mar, 12:38
	6-7km S	Heard	2	Explosion	Undetermined	N/K	20-Mar, 12:44
	4-5km S	Heard	1	Explosion	Undetermined	N/K	20-Mar, 13:06
	3-5km S	Heard	2	Explosion	Undetermined	N/K	20-Mar, 15:07
	4-5km SSW	Heard	7	Burst		Small arms	20-Mar, 16:15-16:30
	6-7km SW	Heard	1	Explosion	Undetermined	N/K	20-Mar, 16:35
	6-7km SSW	Heard	4	Explosion	Undetermined	N/K	20-Mar, 17:30-17:55
	2-3km SW	Heard	1	Explosion	Undetermined	N/K	20-Mar, 12:21
About 2km SSE of Kamianka (government-controlled, 23km N of Donetsk)	5-6km SSW	Heard	7	Explosion	Undetermined	N/K	20-Mar, 08:52-09:13
	2-4km SSW	Heard	3	Burst		Small arms	20-Mar, 09:15
	6-8km WSW	Heard	1	Explosion	Undetermined	N/K	20-Mar, 09:23
	5-7km SW	Heard	1	Explosion	Undetermined	N/K	20-Mar, 09:39
	5-7km SW	Heard	4	Explosion	Undetermined	N/K	20-Mar, 09:40-09:44
	3-4km SSE	Heard	1	Explosion	Undetermined	N/K	20-Mar, 09:59
	4-5km E	Heard	2	Explosion	Undetermined	N/K	20-Mar, 10:11
	3-4km S	Heard	2	Explosion	Undetermined	N/K	20-Mar, 10:18-10:19
	3-4km SSW	Heard	2	Explosion	Undetermined	N/K	20-Mar, 10:21-10:22
	3-4km SSW	Heard	4	Explosion	Undetermined	N/K	20-Mar, 10:25-10:28
	3-4km S	Heard	3	Explosion	Undetermined	N/K	20-Mar, 10:29-10:31
	3-4km NNE	Heard	20	Burst		HMG	20-Mar, 10:30-10:32
	3-4km SSW	Heard	12	Explosion	Undetermined	N/K	20-Mar, 10:33-10:53
	3-4km SW	Heard	7	Explosion	Undetermined	N/K	20-Mar, 10:53-11:10



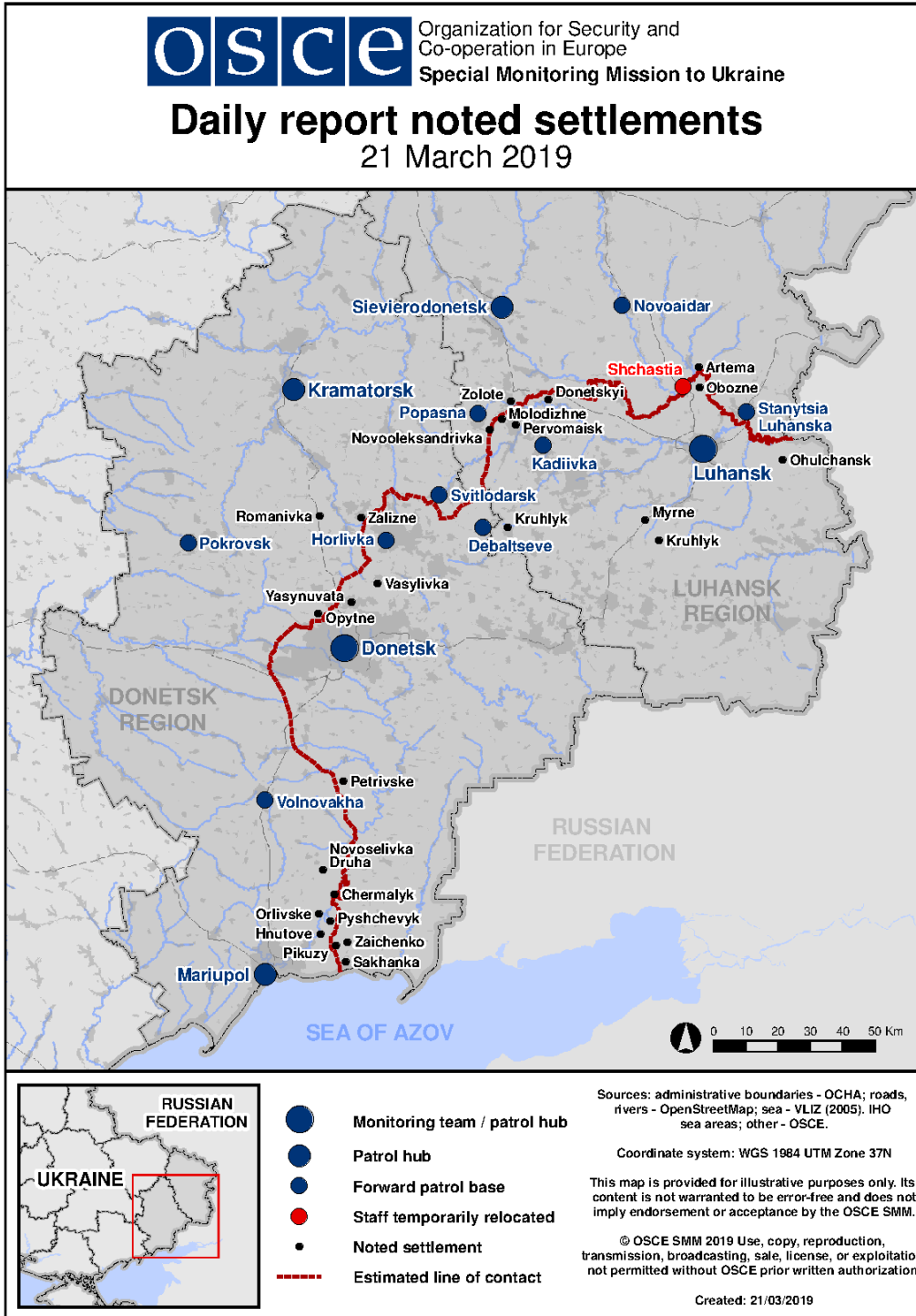
	3-5km NE	Heard	1	Explosion	Undetermined	N/K	20-Mar, 11:14
	3-5km NE	Heard	1	Explosion	Undetermined	N/K	20-Mar, 11:14
	2-3km SW	Heard	1	Explosion	Undetermined	N/K	20-Mar, 11:14
	2-3km SW	Heard	2	Explosion	Undetermined	N/K	20-Mar, 11:18-11:20
	3-4km SSW	Heard	2	Explosion	Undetermined	N/K	20-Mar, 11:53
	3-4km S	Heard	1	Explosion	Undetermined	N/K	20-Mar, 11:57
	3-5km S	Heard	4	Explosion	Undetermined	N/K	20-Mar, 12:07
	3-5km SE	Heard	2	Explosion	Undetermined	N/K	20-Mar, 12:08
	3-5km S	Heard	3	Explosion	Undetermined	N/K	20-Mar, 12:16
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	20-Mar, 12:16
	3-5km S	Heard	2	Explosion	Undetermined	N/K	20-Mar, 13:04
	2-4km S	Heard	2	Explosion	Undetermined	N/K	20-Mar, 13:05
	2-4km SE	Heard	1	Explosion	Undetermined	N/K	20-Mar, 13:06
	2-4km S	Heard	5	Explosion	Undetermined	N/K	20-Mar, 13:12-13:20
	4-6km S	Heard	3	Explosion	Undetermined	N/K	20-Mar, 13:12-13:20
	3-5km S	Heard	4	Explosion	Undetermined	N/K	20-Mar, 13:13
	2-4km S	Heard	1	Explosion	Undetermined	N/K	20-Mar, 13:43
	4-6km S	Heard	1	Explosion	Undetermined	N/K	20-Mar, 13:56
Novoluhanske (government-controlled, 53km NE of Donetsk)	3-5km ENE	Heard	1	Explosion	Undetermined	N/K	20-Mar, 10:01
	2-3km ENE	Heard	2	Explosion	Undetermined	N/K	20-Mar, 10:05
	2-3km ENE	Heard	7	Burst		Small arms	20-Mar, 10:05
W edge of Zalizne (government-controlled, 42km NE of Donetsk)	2-3km E	Heard	10	Burst		Small arms	20-Mar, 11:20
	3-5km SW	Heard	1	Explosion	Undetermined	N/K	20-Mar, 12:14
About 2km SE of Semyhiria (government-controlled, 58km NE of Donetsk)	6-7km SW	Heard	7	Explosion	Undetermined	N/K	20-Mar, 12:05-12:15
About 1km N of Yelyzavetivka (government-controlled, 42km NW of Donetsk)	3-5km E	Heard	13	Explosion	Undetermined	N/K	20-Mar, 10:20-10:50
	3-5km E	Heard	60	Shot	Undetermined	Small arms	20-Mar, 10:20-10:50
	3-5km E	Heard	100	Burst	Undetermined	HMG	20-Mar, 10:20-10:50
N edge of Popasna (government-controlled, 69km W of Luhansk)	6-8km SE	Heard	4	Explosion	Undetermined	N/K	19-Mar, 20:25-20:30
	10-12km SE	Heard	5	Explosion	Undetermined	N/K	19-Mar, 21:50-21:52
	10-12km SE	Heard	14	Explosion	Undetermined	N/K	19-Mar, 22:10-22:25
	6-8km SE	Heard	14	Burst		HMG	19-Mar, 22:10-22:15
	10-12km SE	Heard	2	Explosion	Undetermined	N/K	19-Mar, 22:35
	4-6km SSW	Heard	30	Burst		HMG	19-Mar, 23:15-23:30
	10-12km SE	Heard	2	Explosion	Undetermined	N/K	20-Mar, 01:45
	6-8km S	Heard	5	Burst		HMG	20-Mar, 02:58
	6-8km SE	Heard	1	Explosion	Undetermined	N/K	20-Mar, 14:07
	5-6km SE	Heard	2	Explosion	Undetermined	Mortar (type N/K)	20-Mar, 14:35-14:45
	6-8km SE	Heard	1	Explosion	Undetermined	N/K	20-Mar, 16:45-16:48
6-8km SE	Heard	5	Shot		Small	20-Mar,	

						arms	16:45-16:48
	6-8km SE	Heard	5	Explosion	Undetermined	N/K	20-Mar, 17:10-17:20
Kadiivka (formerly Stakhanov, non-government-controlled, 50km W of Luhansk)	3-5km N	Heard	2	Explosion	Undetermined	N/K	19-Mar, 21:48-21:49
	10-15km N	Heard	28	Explosion	Undetermined	N/K	19-Mar, 21:48-22:10
	10-15km NW	Heard	20	Explosion	Undetermined	N/K	20-Mar, 17:49-18:14
Dovhe (non-government-controlled, 22km NW of Luhansk)	N/K WNW	Heard	3	Explosion	Undetermined	N/K	20-Mar, 09:15
Holubivske (non-government-controlled, 51km W of Luhansk)	5-10km W	Heard	3	Explosion	Undetermined	N/K	20-Mar, 09:44-10:02
	5-7km W	Heard	29	Burst		HMG	20-Mar, 09:52-09:57
	5-8km NW	Heard	5	Explosion	Undetermined	N/K	20-Mar, 10:08-10:42
N edge of Zolote (government-controlled, 60km W of Luhansk)	4-6km SW	Heard	6	Burst	Assessed as outside the disengagement area	HMG	20-Mar, 10:25-10:28
	12-15km SSW	Heard	3	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	20-Mar, 10:25-10:29
	3-4km SE	Heard	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	20-Mar, 10:30
	3-5km SW	Heard	4	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	20-Mar, 12:11-12:12
W edge of Smile (non-government-controlled, 31km NW of Luhansk)	N/K WNW	Heard	2	Explosion	Undetermined	N/K	20-Mar, 11:15
	N/K WNW	Heard	2	Burst		N/K	20-Mar, 11:15
	N/K W	Heard	3	Explosion	Undetermined	N/K	20-Mar, 11:42
1km NE of Dachne (non-government-controlled, 47km W of Luhansk)	8-10km WNW	Heard	59	Explosion	Undetermined	N/K	20-Mar, 11:27-11:37
	4-6km N	Heard	7	Explosion	Undetermined	N/K	20-Mar, 11:40-12:02
	3-5km N	Heard	15	Shot		Small arms	20-Mar, 12:00-12:05
1km NE of Orikhove (government-controlled, 57km NW of Luhansk)	2-3km SSE	Heard	2	Explosion	Assessed as outside the Zolote disengagement area	Mortar (type N/K)	20-Mar, 11:32-11:42
	3-4km SSW	Heard	2	Explosion	Assessed as outside the Zolote disengagement area	Mortar (type N/K)	20-Mar, 11:32-11:42
W edge of Zolote-3/Stakhanovets	8-10km SSE	Heard	3	Explosion	Undetermined (assessed as outside the	N/K	20-Mar, 11:42-11:52

(government-controlled, 61km W of Luhansk)					disengagement area)		
	1-2km SE	Heard	10	Shot	Unable to assess whether inside or outside the disengagement area	Small arms	20-Mar, 11:50-11:51
	1km SSW	Heard	16	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	20-Mar, 11:56-11:57
2km NE of Pervomaisk (non-government-controlled, 58km W of Luhansk)	4-7km W	Heard	21	Explosion	Undetermined (unable to assess whether inside or outside the Zolote disengagement area )	N/K	20-Mar, 12:10-12:27
	2-5km W	Heard	80	Shot	Unable to assess whether inside or outside the Zolote disengagement area	HMG	20-Mar, 12:10-12:17
	2-5km W	Heard	30	Burst	Unable to assess whether inside or outside the disengagement area	HMG	20-Mar, 12:10-12:17
	2-3km W	Heard	5	Shot	Unable to assess whether inside or outside the disengagement area	Small arms	20-Mar, 12:13-12:17
About 500m W of Zolote-2/Karbonit (government-controlled, 62km W of Luhansk)	5-6km S	Heard	5	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	20-Mar, 12:35-12:40
	12-15km S	Heard	2	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	20-Mar, 12:35-12:40
Sentianivka (formerly Frunze, non-government-controlled, 44km W of Luhansk)	6-8km NW	Heard	1	Explosion	Undetermined	N/K	20-Mar, 13:05
1km S of Muratove (non-government-controlled, 51km NW of Luhansk)	3-5km S	Heard	33	Explosion	Undetermined	N/K	20-Mar, 13:35-13:45
Stanytsia Luhanska	20-25km NNW	Heard	12	Explosion	Undetermined	N/K	20-Mar, 14:55-15:00

(non-government-controlled, 16km NE of Luhansk)							
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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 bases from which SMM staff has temporarily relocated based on recommendations of security experts from participating States as well as SMM security considerations).