

**Table of ceasefire violations as of 31 March 2019<sup>1</sup>**

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera in Avdiivka (government-controlled, 17km N of Donetsk)	2-5km SE	Recorded	1	Projectile	SW to NE	N/K	29-Mar, 22:54
	2-5km SE	Recorded	1	Explosion	Undetermined	N/K	29-Mar, 22:54
SMM camera in Chermalyk (government-controlled, 31km NE of Mariupol)	1-3km SSE	Recorded	3	Projectile	ENE to WSW	N/K	29-Mar, 19:03
	1-3km SSE	Recorded	6	Projectile	ENE to WSW	N/K	29-Mar, 19:28
	1-3km SSE	Recorded	1	Projectile	ENE to WSW	N/K	29-Mar, 19:44
	1-3km SSE	Recorded	3	Projectile	ENE to WSW	N/K	29-Mar, 19:47
	2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	29-Mar, 20:02
	2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	29-Mar, 20:29
	8-10km SSE	Recorded	4	Projectile	WNW to ESE	N/K	29-Mar, 20:38
	2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	29-Mar, 20:55
	3-5km SSE	Recorded	1	Explosion	Undetermined	N/K	29-Mar, 20:56
	2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	29-Mar, 20:56
	2-4km SE	Recorded	1	Explosion	Undetermined	N/K	29-Mar, 20:58
	3-5km S	Recorded	1	Illumination flare	In vertical flight	N/K	29-Mar, 20:58
	3-5km S	Recorded	2	Illumination flare	In vertical flight	N/K	29-Mar, 21:00
	2-4km SSE	Recorded	5	Projectile	NNE to SSW	N/K	29-Mar, 21:01
	2-4km SSE	Recorded	1	Projectile	In vertical flight	N/K	29-Mar, 21:06
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	29-Mar, 21:06
	2-4km SSE	Recorded	1	Projectile	WNW to ESE	N/K	29-Mar, 21:11
	3-5km SSE	Recorded	1	Explosion	Undetermined	N/K	29-Mar, 21:11
	2-4km SSE	Recorded	5	Projectile	ENE to WSW	N/K	29-Mar, 21:13
	2-4km SSE	Recorded	5	Projectile	WSW to ENE	N/K	29-Mar, 21:14
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	29-Mar, 21:14
	2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	29-Mar, 21:47
	2-4km SSE	Recorded	12	Projectile	ENE to WSW	N/K	29-Mar, 21:48
	2-4km SSE	Recorded	2	Projectile	ENE to WSW	N/K	29-Mar, 21:50
	2-4km SSE	Recorded	1	Projectile	WSW to ENE	N/K	29-Mar, 21:59
	2-4km SSE	Recorded	1	Projectile	WSW to ENE	N/K	29-Mar, 22:01
	2-4km SSE	Recorded	8	Projectile	ENE to WSW	N/K	29-Mar, 22:26
	2-4km SSE	Recorded	3	Projectile	WSW to ENE	N/K	29-Mar, 22:27
	2-4km SSE	Recorded	7	Projectile	ENE to WSW	N/K	29-Mar, 22:29
	2-4km SSE	Recorded	2	Projectile	WSW to ENE	N/K	29-Mar, 22:31
	2-4km SSE	Recorded	9	Projectile	ENE to WSW	N/K	29-Mar, 22:37
	2-4km SE	Recorded	5	Projectile	WSW to ENE	N/K	29-Mar, 22:46
	2-4km SSE	Recorded	8	Projectile	ENE to WSW	N/K	29-Mar, 22:48
	2-4km SSE	Recorded	1	Burst	ENE to WSW	N/K	29-Mar, 22:48
	2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	29-Mar, 22:50
	2-4km SSE	Recorded	4	Projectile	WSW to ENE	N/K	29-Mar, 22:53
	2-4km SSE	Recorded	8	Projectile	ENE to WSW	N/K	29-Mar, 22:53
	2-4km SSE	Recorded	3	Projectile	WSW to ENE	N/K	29-Mar, 22:55
	2-4km SSE	Recorded	6	Projectile	ENE to WSW	N/K	29-Mar, 22:56
	2-4km SSE	Recorded	1	Burst	ENE to WSW	N/K	29-Mar, 22:56
2-4km SSE	Recorded	6	Projectile	WSW to ENE	N/K	29-Mar, 22:56	
3-5km S	Recorded	1	Illumination flare	In vertical flight	N/K	29-Mar, 23:00	

<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	Recorded	1	Illumination flare	In vertical flight	N/K	29-Mar, 23:00
	2-4km SSE	Recorded	10	Projectile	ENE to WSW	N/K	29-Mar, 23:03
	2-4km SSE	Recorded	2	Projectile	ENE to WSW	N/K	29-Mar, 23:04
	2-4km SSE	Recorded	3	Projectile	ENE to WSW	N/K	29-Mar, 23:21
	2-4km SSE	Recorded	14	Projectile	ENE to WSW	N/K	29-Mar, 23:26
	2-4km SSE	Recorded	2	Projectile	ENE to WSW	N/K	29-Mar, 23:26
	2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	29-Mar, 23:36
	2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	29-Mar, 23:37
	2-4km SSE	Recorded	13	Projectile	ENE to WSW	N/K	29-Mar, 23:43
	2-4km SSE	Recorded	3	Projectile	ENE to WSW	N/K	29-Mar, 23:44
	2-4km SSE	Recorded	7	Projectile	ENE to WSW	N/K	29-Mar, 23:45
	2-4km SSE	Recorded	16	Projectile	ENE to WSW	N/K	29-Mar, 23:57
	2-4km SSE	Recorded	9	Projectile	ENE to WSW	N/K	30-Mar, 00:00
	2-4km SSE	Recorded	16	Projectile	ENE to WSW	N/K	30-Mar, 00:02
	2-4km SSE	Recorded	31	Projectile	ENE to WSW	N/K	30-Mar, 00:29
	2-4km SSE	Recorded	11	Projectile	ENE to WSW	N/K	30-Mar, 00:32
	2-4km SSE	Recorded	2	Projectile	NNE to SSW	N/K	30-Mar, 00:48
	2-4km SSE	Recorded	3	Projectile	ENE to WSW	N/K	30-Mar, 00:52
	2-4km SSE	Recorded	1	Projectile	WNW to ESE	N/K	30-Mar, 00:53
	2-4km SSE	Recorded	6	Projectile	ENE to WSW	N/K	30-Mar, 00:54
	2-4km SSE	Recorded	1	Projectile	NNE to SSW	N/K	30-Mar, 00:55
	2-4km SSE	Recorded	1	Burst	ENE to WSW	N/K	30-Mar, 00:56
	3-5km S	Recorded	1	Illumination flare	In vertical flight	N/K	30-Mar, 01:00
	2-4km SSE	Recorded	16	Projectile	ENE to WSW	N/K	30-Mar, 01:02
	3-5km SSE	Recorded	1	Projectile	NE to SW	N/K	30-Mar, 01:08
	3-5km S	Recorded	1	Illumination flare	In vertical flight	N/K	30-Mar, 01:15
	2-4km SSE	Recorded	15	Projectile	ENE to WSW	N/K	30-Mar, 01:20
	2-4km SSE	Recorded	7	Projectile	ENE to WSW	N/K	30-Mar, 01:46
	8-10km S	Recorded	1	Illumination flare	In vertical flight	N/K	30-Mar, 02:59
	2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	30-Mar, 04:15
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	N/K SSW	Recorded	1	Projectile	NW to SE	N/K	29-Mar, 20:11
	1-2km S	Recorded	1	Projectile	W to E	N/K	29-Mar, 20:45
	1-2km S	Recorded	1	Explosion	Undetermined	N/K	29-Mar, 20:46
	0.5-1km S	Recorded	1	Explosion	Undetermined	N/K	29-Mar, 20:47
	200-500m S	Recorded	1	Explosion	Undetermined	N/K	29-Mar, 20:57
	1-2km SSW	Recorded	7	Projectile	NW to SE	N/K	29-Mar, 21:07
	0.5-1km S	Recorded	1	Explosion	Undetermined	N/K	29-Mar, 21:15
	0.5-1km S	Recorded	1	Explosion	Undetermined	N/K	29-Mar, 22:22
	0.5-1km SW	Recorded	5	Muzzle flash		N/K	29-Mar, 22:22
	1-2km SW	Recorded	3	Projectile	NW to SE	N/K	29-Mar, 22:55
	1-2km SSW	Recorded	1	Projectile	NW to SE	N/K	30-Mar, 04:04
	1-2km SSW	Recorded	1	Projectile	NW to SE	N/K	30-Mar, 04:05
	2-3km SSW	Recorded	2	Projectile	NNE to SSW	N/K	30-Mar, 04:05
	SMM camera 1.5km NE of Hnutove (government-controlled, 20km NE of Mariupol)	1-3km ESE	Recorded	1	Explosion	Airburst	N/K
1-3km ESE		Recorded	1	Explosion	Undetermined	N/K	29-Mar, 18:37
1-3km ESE		Recorded	1	Projectile	In vertical flight	N/K	29-Mar, 18:37
1-3km ESE		Recorded	1	Muzzle flash		N/K	29-Mar, 18:37
2-4km E		Recorded	6	Projectile	WNW to ESE	N/K	29-Mar, 20:34
2-4km E		Recorded	1	Explosion	Undetermined	N/K	30-Mar, 01:26
SMM camera in Hranitne (government-controlled, 60km S of Donetsk)	2-3km E	Recorded	2	Projectile	S to N	N/K	29-Mar, 20:50
SMM camera E of Lomakyne (government-controlled,	3-5km NE	Recorded	2	Explosion	Airburst	N/K	29-Mar, 18:37
	2-4km ENE	Recorded	1	Illumination flare	In vertical flight	N/K	29-Mar, 21:56
	2-4km E	Recorded	1	Illumination	In vertical	N/K	29-Mar, 23:00

15km NE of Mariupol)				flare	flight		
	2-4km NE	Recorded	1	Illumination flare	In vertical flight	N/K	30-Mar, 01:15
	2-4km E	Recorded	1	Illumination flare	In vertical flight	N/K	30-Mar, 01:15
	2-4km E	Recorded	1	Illumination flare	In vertical flight	N/K	30-Mar, 02:58
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	1.5-3km ENE	Recorded	1	Explosion	Undetermined	N/K	29-Mar, 19:22
	1-3km E	Recorded	1	Illumination flare	In vertical flight	N/K	29-Mar, 21:38
	1-2km E	Recorded	1	Explosion	Undetermined	N/K	29-Mar, 22:59
SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)	2-3km N	Recorded	1	Illumination flare	In vertical flight	N/K	29-Mar, 20:41
	1-2km NNE	Recorded	1	Projectile	SW to NE	N/K	29-Mar, 22:51
	1-2km NNE	Recorded	5	Projectile	SW to NE	N/K	29-Mar, 22:54
	1-2km NNE	Recorded	2	Projectile	SW to NE	N/K	30-Mar, 00:27
	1-2km NNE	Recorded	1	Projectile	In vertical flight	N/K	30-Mar, 01:13
	1-2km N	Recorded	5	Projectile	S to N	N/K	30-Mar, 01:23
	1-2km N	Recorded	1	Illumination flare	In vertical flight	N/K	30-Mar, 01:44
SMM camera at Oktiabr mine (non-government-controlled, 9km NW of Donetsk city centre)	2-6km NNE	Recorded	1	Illumination flare	In vertical flight	N/K	29-Mar, 20:06
SMM camera at entry-exit checkpoint in Pyshevyk (government-controlled, 25km NE of Mariupol)	2-4km S	Recorded	1	Illumination flare	In vertical flight	N/K	29-Mar, 20:58
	2-4km S	Recorded	2	Illumination flare	In vertical flight	N/K	29-Mar, 21:00
	1-3km S	Recorded	1	Projectile	E to W	N/K	29-Mar, 21:56
	1-2km S	Recorded	1	Projectile	E to W	N/K	29-Mar, 21:58
	1-2km SE	Recorded	1	Projectile	NE to SW	N/K	29-Mar, 22:07
	1-2km SE	Recorded	2	Projectile	ENE to WSW	N/K	29-Mar, 23:59
	2-4km S	Recorded	1	Illumination flare	In vertical flight	N/K	30-Mar, 01:00
	1-2km SE	Recorded	1	Projectile	E to W	N/K	30-Mar, 01:49
	<u>2-4km S</u>	<u>Recorded</u>	<u>1</u>	<u>Illumination flare</u>	<u>In vertical flight</u>	<u>N/K</u>	<u>30-Mar, 02:59</u>
SMM camera 1km SW of Shyrokyne (government-controlled, 20km E of Mariupol)	5-6km N	Recorded	1	Illumination flare	In vertical flight	N/K	29-Mar, 23:00
	5-6km N	Recorded	1	Illumination flare	In vertical flight	N/K	29-Mar, 23:00
	5-6km N	Recorded	1	Illumination flare	In vertical flight	N/K	30-Mar, 01:00
	5-6km N	Recorded	1	Illumination flare	In vertical flight	N/K	30-Mar, 01:16
	5-6km N	Recorded	1	Illumination flare	In vertical flight	N/K	30-Mar, 02:58
	5-6km N	Recorded	1	Illumination flare	In vertical flight	N/K	30-Mar, 02:59
3km SSE of Lozove (government-controlled, 52km NE of Donetsk)	5-7km NNW	Heard	1	Explosion	Undetermined	N/K	30-Mar, 10:04
	3-4km NNW	Heard	1	Explosion	Undetermined	N/K	30-Mar, 10:14
About 1km NW of railway	2-3km SW	Heard	20	Shot		Small arms	30-Mar, 09:38-09:52

station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	2-3km SW	Heard	3	Burst		Small arms	30-Mar, 09:38-09:55
	3-5km NNW	Heard	1	Explosion	Undetermined	N/K	30-Mar, 09:42
	1.5-2.5km NNW	Heard	1	Explosion	Undetermined	N/K	30-Mar, 12:23
	2-3km WSW	Heard	5	Shot		Small arms	30-Mar, 12:40-13:00
	3-5km W	Heard	1	Explosion	Undetermined	N/K	30-Mar, 12:54
	2-3km SW	Heard	2	Explosion	Undetermined	N/K	30-Mar, 12:56-12:59
	1-2km SSW	Heard	1	Shot		N/K	30-Mar, 13:32
Yasynuvata railway station (non-government-controlled, 16km NE of Donetsk)	2-4km SW	Heard	1	Explosion	Undetermined	N/K	30-Mar, 12:10
SE edge of Avdiivka (government-controlled, 17km N of Donetsk)	4-6km NE	Heard	1	Explosion	Undetermined	N/K	30-Mar, 10:03
	3-5km NE	Heard	1	Explosion	Undetermined	N/K	30-Mar, 10:15
About 2.5km SSE of Lohvynove (non-government-controlled, 59km NE of Donetsk)	1.5-2km NW	Heard	6	Shot		Small arms	30-Mar, 11:30-12:00
About 800m S of Novohryhorivka (non-government-controlled, 61km NE of Donetsk)	4-6km NNE	Heard	1	Explosion	Undetermined	N/K	30-Mar, 13:51
About 3km NE of Zaichenko (non-government-controlled, 26km NE of Mariupol)	N/K SW	Heard	1	Explosion	Undetermined	N/K	30-Mar, 11:33
Sopyne (government-controlled, 16km E of Mariupol)	3-5km NE	Heard	1	Explosion	Undetermined	N/K	30-Mar, 12:37
Horlivka (non-government-controlled, 39km NE of Donetsk)	2-4km W	Heard	2	Burst		HMG	29-Mar, 18:55
	3-5km N	Heard	1	Explosion	Undetermined	N/K	29-Mar, 19:22
	5-7km W	Heard	1	Explosion	Undetermined	N/K	29-Mar, 20:41
	3-5km W	Heard	3	Explosion	Undetermined	N/K	29-Mar, 22:50-23:15
About 2km SSE of Kamianka (government-controlled, 23km N of Donetsk)	1-2km E	Heard	1	Shot		Small arms	30-Mar, 09:41
	1-2km E	Heard	1	Shot		Small arms	30-Mar, 10:03
Svitlodarsk (government-controlled, 57km NE of Donetsk)	4-5km NW	Heard	7	Explosion	Undetermined	N/K	30-Mar, 13:27-13:29
	4-5km NW	Heard	5	Explosion	Undetermined	N/K	30-Mar, 14:11-14:14

Donetsk)	4-5km NNW	Heard	5	Explosion	Undetermined	N/K	30-Mar, 17:15-17:21
	4-5km NNW	Heard	7	Explosion	Undetermined	N/K	30-Mar, 17:25-17:30
	7-8km SW	Heard	2	Explosion	Undetermined	N/K	30-Mar, 17:31
	4-5km NNW	Heard	7	Explosion	Undetermined	N/K	30-Mar, 17:50-18:04
Novoluhanske (government-controlled, 53km NE of Donetsk)	1-3km SSW	Heard	3	Burst		HMG	30-Mar, 14:28-14:34
	1-3km SSW	Heard	22	Burst		Small arms	30-Mar, 14:28-14:34
	1-3km SSW	Heard	5	Explosion	Undetermined	N/K	30-Mar, 14:28-14:34
SMM camera in Kriakivka (government-controlled, 38km NW of Luhansk)	2-4km SW	Recorded	1	Explosion	Undetermined	N/K	29-Mar, 21:01
	1-3km SSW	Recorded	1	Explosion	Undetermined	N/K	29-Mar, 21:53
	2-4km SW	Recorded	3	Projectile	NNW to SSE	N/K	29-Mar, 21:56
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	29-Mar, 21:56
	2-4km SW	Recorded	1	Projectile	NNW to SSE	N/K	29-Mar, 22:00
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	29-Mar, 22:00
	2-4km SW	Recorded	2	Explosion	Undetermined	N/K	29-Mar, 22:01
	2-4km SW	Recorded	1	Projectile	NNW to SSE	N/K	29-Mar, 22:03
	2-4km SW	Recorded	1	Explosion	Undetermined	N/K	29-Mar, 22:03
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	29-Mar, 22:12
	2-4km SSW	Recorded	4	Explosion	Undetermined	N/K	29-Mar, 22:13
	2-4km SSW	Recorded	1	Illumination flare	In vertical flight	N/K	29-Mar, 22:41
	2-4km SSW	Recorded	4	Explosion	Undetermined	N/K	29-Mar, 23:05
	2-4km SW	Recorded	2	Projectile	E to W	N/K	30-Mar, 00:06
2-4km SW	Recorded	1	Illumination flare	In vertical flight	N/K	30-Mar, 00:49	
SMM camera in Zolote (government-controlled, 60km W of Luhansk)	1-2km SSE	Recorded	2	Muzzle flash	Unable to assess whether inside or outside the disengagement area	N/K	29-Mar, 19:29
Popasna (government-controlled, 69km W of Luhansk)	10-15km S	Heard	6	Explosion	Undetermined	N/K	29-Mar, 19:03-19:20
	5-9km E	Saw	5	Burst	Unable to assess if inside or outside the Zolote disengagement area	HMG	29-Mar, 19:06
Kadiivka (non-government-controlled, formerly Stakhanov, 50km W of Luhansk)	10-15km W	Heard	88	Explosion	Undetermined	N/K	29-Mar, 16:40-17:35
	10-15km NW	Heard	91	Explosion	Undetermined (assessed as outside the Zolote disengagement area)	N/K	29-Mar, 16:40-17:35
	10-15km W	Heard	7	Explosion	Undetermined	N/K	29-Mar, 19:20-19:45
Obozne (non-government-controlled, 18km N of Luhansk)	2-4km N	Heard	1	Explosion	Undetermined	N/K	30-Mar, 09:47
3km S of Muratove (government-controlled, 51km NW of	5-6km SW	Heard	3	Explosion	Undetermined	N/K	30-Mar, 10:55-11:20
	5-6km SE	Heard	2	Explosion	Undetermined	N/K	30-Mar, 10:55-11:20
	4-5km SE	Heard	3	Burst		HMG	30-Mar, 10:55-

Luhansk)							11:20
Zolote-5/Mykhailivka (non-government-controlled, 58km W of Luhansk)	600-700m NNE	Heard	8	Shot	Assessed as outside the disengagement area	Small arms	30-Mar, 11:00-11:03
SW edge of Berezivske (non-government-controlled, 53km NW of Luhansk)	2-3km NW	Heard	13	Burst	Assessed as outside the Zolote disengagement area	Small arms	30-Mar, 11:22-11:30
	2-3km NW	Heard	15	Shot	Assessed as outside the Zolote disengagement area	Small arms	30-Mar, 11:22-11:30
E edge of Staryi Aidar (government-controlled, 20km NW of Luhansk)	8-10km SW	Heard	1	Explosion	Undetermined	N/K	30-Mar, 12:14
Kriakivka (government-controlled, 38km NW of Luhansk)	1-2km SSW	Heard	3	Shot		Small arms	30-Mar, 12:33-12:44
Pankivka (non-government-controlled, 16km N of Luhansk)	700m NW	Heard	2	Shot		Small arms	30-Mar, 12:53
S edge of Kalynove-Borshchuvate (non-government-controlled, 61km W of Luhansk)	7-12km SW	Heard	1	Explosion	Undetermined	N/K	30-Mar, 13:20
	2-3km W	Heard	10	Shot	Assessed as outside the Zolote disengagement area	Small arms	30-Mar, 13:21-13:25
SMM camera in Chermalnyk (government-controlled, 31km NE of Mariupol)	1-3km SSE	Recorded	6	Projectile	NE to SW	N/K	30-Mar, 19:13
	1-3km SSE	Recorded	1	Projectile	NE to SW	N/K	30-Mar, 19:14
	1-3km SSE	Recorded	3	Projectile	NE to SW	N/K	30-Mar, 19:16
	1-3km SSE	Recorded	4	Projectile	NE to SW	N/K	30-Mar, 19:28
	2-4km S	Recorded	2	Explosion	Undetermined	N/K	30-Mar, 19:37
	1-3km SE	Recorded	2	Projectile	ENE to WSW	N/K	30-Mar, 19:49
	2-4km SSE	Recorded	5	Projectile	WNW to ESE	N/K	30-Mar, 20:08
	3-5km SSE	Recorded	4	Projectile	W to E	N/K	30-Mar, 20:09
	3-5km SSE	Recorded	2	Projectile	W to E	N/K	30-Mar, 20:10
	2-4km SSE	Recorded	4	Projectile	NNE to SSW	N/K	30-Mar, 20:12
	2-4km SSE	Recorded	6	Projectile	NNE to SSW	N/K	30-Mar, 20:13
	2-4km SSE	Recorded	2	Explosion	Undetermined	N/K	30-Mar, 20:14
	2-4km SSE	Recorded	3	Projectile	ENE to WSW	N/K	30-Mar, 20:14
	3-5km SSE	Recorded	3	Projectile	W to E	N/K	30-Mar, 20:14
	2-4km SSE	Recorded	9	Projectile	ENE to WSW	N/K	30-Mar, 20:30
	2-4km SSE	Recorded	13	Projectile	ENE to WSW	N/K	30-Mar, 20:31
	2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	30-Mar, 20:32
	2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	30-Mar, 20:36
	2-4km SSE	Recorded	2	Projectile	ENE to WSW	N/K	30-Mar, 20:37
	2-4km SSE	Recorded	2	Projectile	ENE to WSW	N/K	30-Mar, 20:38
2-4km SSE	Recorded	2	Projectile	ENE to WSW	N/K	30-Mar, 20:43	
2-4km SSE	Recorded	5	Projectile	ENE to WSW	N/K	30-Mar, 20:47	
2-4km S	Recorded	1	Explosion	Undetermined	N/K	30-Mar, 20:59	

	2-4km SSE	Recorded	6	Projectile	ENE to WSW	N/K	30-Mar, 21:03
	2-4km SSE	Recorded	4	Projectile	ENE to WSW	N/K	30-Mar, 21:04
	2-4km SSE	Recorded	2	Projectile	ENE to WSW	N/K	30-Mar, 21:14
	2-4km SSE	Recorded	3	Projectile	ENE to WSW	N/K	30-Mar, 21:15
	2-4km SSE	Recorded	16	Projectile	ENE to WSW	N/K	30-Mar, 21:40
	2-4km SSE	Recorded	2	Projectile	ENE to WSW	N/K	30-Mar, 21:41
	2-4km SSE	Recorded	7	Projectile	ENE to WSW	N/K	30-Mar, 21:42
	2-4km SSE	Recorded	5	Projectile	ENE to WSW	N/K	30-Mar, 21:50
	2-4km SE	Recorded	1	Explosion	Undetermined	N/K	30-Mar, 21:52
	2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	30-Mar, 22:11
	2-4km SSE	Recorded	2	Projectile	ENE to WSW	N/K	30-Mar, 22:31
	2-4km SSE	Recorded	5	Projectile	ENE to WSW	N/K	30-Mar, 22:55
	2-4km SSE	Recorded	3	Projectile	ENE to WSW	N/K	30-Mar, 23:00
	2-4km SSE	Recorded	3	Projectile	ENE to WSW	N/K	30-Mar, 23:03
	2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	30-Mar, 23:04
	2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	30-Mar, 23:48
	2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	30-Mar, 23:49
	2-4km SSE	Recorded	7	Projectile	ENE to WSW	N/K	31-Mar, 00:01
	2-4km SSE	Recorded	3	Projectile	ENE to WSW	N/K	31-Mar, 00:11
	2-4km SSE	Recorded	8	Projectile	ENE to WSW	N/K	31-Mar, 00:27
	2-4km SSE	Recorded	5	Projectile	ENE to WSW	N/K	31-Mar, 00:28
	2-4km SSE	Recorded	5	Projectile	ENE to WSW	N/K	31-Mar, 00:34
	2-4km SSE	Recorded	3	Projectile	ENE to WSW	N/K	31-Mar, 00:36
	2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	31-Mar, 00:42
	2-4km SSE	Recorded	7	Projectile	ENE to WSW	N/K	31-Mar, 00:43
	2-4km SSE	Recorded	12	Projectile	ENE to WSW	N/K	31-Mar, 00:54
	2-4km SSE	Recorded	30	Projectile	ENE to WSW	N/K	31-Mar, 01:08
	2-4km SSE	Recorded	11	Projectile	ENE to WSW	N/K	31-Mar, 01:16
	2-4km SSE	Recorded	6	Projectile	ENE to WSW	N/K	31-Mar, 01:17
	2-4km SSE	Recorded	4	Projectile	ENE to WSW	N/K	31-Mar, 01:23
	2-4km SSE	Recorded	1	Explosion	ENE to WSW	N/K	31-Mar, 01:23
	2-4km SSE	Recorded	9	Projectile	ENE to WSW	N/K	31-Mar, 01:25
	2-4km SSE	Recorded	6	Projectile	ENE to WSW	N/K	31-Mar, 01:27
	2-4km SSE	Recorded	2	Projectile	ENE to WSW	N/K	31-Mar, 01:33
	2-4km SSE	Recorded	8	Projectile	ENE to WSW	N/K	31-Mar, 01:34
	3-5km SSE	Recorded	8	Projectile	ENE to WSW	N/K	31-Mar, 01:35
	2-4km SSE	Recorded	4	Projectile	ENE to WSW	N/K	31-Mar, 02:15
	2-4km SSE	Recorded	3	Projectile	ENE to WSW	N/K	31-Mar, 02:27
	2-4km SSE	Recorded	8	Projectile	ENE to WSW	N/K	31-Mar, 02:28
	2-4km SSE	Recorded	10	Projectile	ENE to WSW	N/K	31-Mar, 02:30
	2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	31-Mar, 02:42
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	31-Mar, 02:42
	3-5km SSE	Recorded	3	Projectile	ENE to WSW	N/K	31-Mar, 04:16
	2-4km SSE	Recorded	7	Projectile	ENE to WSW	N/K	31-Mar, 04:17
	3-5km SSE	Recorded	16	Projectile	ENE to WSW	N/K	31-Mar, 04:20
	3-5km SSE	Recorded	1	Burst	ENE to WSW	N/K	31-Mar, 04:33
	2-4km SSE	Recorded	5	Projectile	ENE to WSW	N/K	31-Mar, 04:38
	2-4km SSE	Recorded	1	Projectile	NW to SE	N/K	31-Mar, 04:39
	2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	31-Mar, 04:39
	2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	31-Mar, 04:51
	2-4km SSE	Recorded	2	Projectile	In vertical flight	N/K	31-Mar, 04:51
	2-4km SSE	Recorded	4	Projectile	ENE to WSW	N/K	31-Mar, 05:16
	2-4km SSE	Recorded	1	Projectile	WSW to ENE	N/K	31-Mar, 05:16
	2-4km SSE	Recorded	3	Projectile	ENE to WSW	N/K	31-Mar, 05:18
	2-4km SSE	Recorded	5	Projectile	ENE to WSW	N/K	31-Mar, 05:19
	2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	31-Mar, 05:22
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	0.5-1km SSW	Recorded	1	Projectile	E to W	N/K	30-Mar, 18:55
	2-4km SSW	Recorded	1	Projectile	ESE to WNW	N/K	30-Mar, 20:11
	1-3km SSW	Recorded	3	Projectile	WNW to ESE	N/K	30-Mar, 23:31
	1-3km SSW	Recorded	1	Muzzle flash	Undetermined	N/K	30-Mar, 23:32
	1-3km SSE	Recorded	1	Explosion	Undetermined	N/K	30-Mar, 23:32
	1-3km S	Recorded	1	Illumination flare	In vertical flight	N/K	30-Mar, 23:33

	1-3km SSW	Recorded	1	Explosion	Undetermined	N/K	30-Mar, 23:58
	2-4km SSW	Recorded	1	Projectile	E to W	N/K	31-Mar, 00:22
	2-4km SSW	Recorded	2	Projectile	W to E	N/K	31-Mar, 01:16
	2-4km SSW	Recorded	1	Projectile	W to E	N/K	31-Mar, 01:51
SMM camera 1.5km NE of Hnutove (government-controlled, 20km NE of Mariupol)	2-4km E	Recorded	4	Projectile	WNW to ESE	N/K	30-Mar, 20:08
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	2-4km E	Recorded	1	Projectile	NW to SE	N/K	31-Mar, 00:53
	2-4km ENE	Recorded	1	Explosion	Undetermined	N/K	31-Mar, 04:59
SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)	1-3km NNE	Recorded	1	Illumination flare	In vertical flight	N/K	31-Mar, 02:27
	1-2km NNE	Recorded	2	Projectile	NW to SE	N/K	31-Mar, 02:56
SMM camera at entry-exit checkpoint in Pyshchevyk (government-controlled, 25km NE of Mariupol)	2-4km S	Recorded	1	Explosion	Undetermined	N/K	30-Mar, 21:44
	2-4km S	Recorded	2	Projectile	W to E	N/K	31-Mar, 02:25
	2-4km SE	Recorded	1	Projectile	E to W	N/K	31-Mar, 04:38
	2-4km S	Recorded	2	Projectile	W to E	N/K	31-Mar, 04:45
	2-4km S	Recorded	1	Projectile	E to W	N/K	31-Mar, 05:15
SE edge of Avdiivka (government-controlled, 17km N of Donetsk)	1-2km SE	Heard	2	Explosion	Undetermined	N/K	31-Mar, 10:03
	2-3km S	Heard	2	Explosion	Undetermined	N/K	31-Mar, 10:20
	1km SE	Heard	12	Shot		Small arms	31-Mar, 10:28
	2-3km SE	Heard	4	Shot		Small arms	31-Mar, 11:00-11:05
	2-3km SE	Heard	2	Explosion	Undetermined	N/K	31-Mar, 11:00-11:05
	2-3km SE	Heard	14	Burst		HMG	31-Mar, 11:00-11:05
S edge of Avdiivka (government-controlled, 17km N of Donetsk)	3-4km SE	Heard	4	Explosion	Undetermined	N/K	31-Mar, 11:20-11:25
	2-3km S	Heard	16	Shot		Small arms	31-Mar, 13:48-13:56
	2-3km S	Heard	1	Explosion	Undetermined	N/K	31-Mar, 13:48-13:56
	3-4km E	Heard	3	Explosion	Undetermined	N/K	31-Mar, 13:51-13:55
About 1.5km ESE of Yasynuvata (non-government-controlled, 16km NE of Donetsk)	3-4km SW	Heard	1	Explosion	Undetermined	N/K	31-Mar, 10:04
About 1km NW of the railway station in Yasynuvata (non-	4-5km SW	Heard	1	Explosion	Undetermined	N/K	31-Mar, 10:20
	2-3km SW	Heard	45	Shot		HMG	31-Mar, 10:27
	4-5km SW	Heard	2	Explosion	Undetermined	N/K	31-Mar, 10:33
	2-3km SW	Heard	2	Shot		HMG	31-Mar, 10:35
	2-3km SW	Heard	2	Explosion	Undetermined	N/K	31-Mar, 10:59



government-controlled, 16km NE of Donetsk)	2-3km SW	Heard	8	Shot		HMG	31-Mar, 10:59
	2-3km SW	Heard	1	Explosion	Undetermined	N/K	31-Mar, 11:00
	3-5km SW	Heard	1	Explosion	Undetermined	N/K	31-Mar, 11:00
	2-3km SW	Heard	7	Shot		Small arms	31-Mar, 11:06
	5-7km N	Heard	1	Explosion	Undetermined	N/K	31-Mar, 11:20
	3-4km SW	Heard	2	Explosion	Undetermined	N/K	31-Mar, 11:25
	3-5km SW	Heard	2	Explosion	Undetermined	N/K	31-Mar, 11:30
	2-3km SW	Heard	3	Shot		HMG	31-Mar, 11:48
	2-3km SW	Heard	3	Shot		Small arms	31-Mar, 12:01
	4-5km N	Heard	1	Explosion	Undetermined	N/K	31-Mar, 12:04
	3-5km N	Heard	2	Explosion	Undetermined	N/K	31-Mar, 12:25
	3-5km N	Heard	1	Explosion	Undetermined	N/K	31-Mar, 12:37
	2-3km N	Heard	1	Explosion	Undetermined	N/K	31-Mar, 12:37
	3-4km SW	Heard	2	Explosion	Undetermined	N/K	31-Mar, 12:46
2-3km SW	Heard	19	Shot		Small arms	31-Mar, 12:47	
2.5km SSE of Lomakyne (government-controlled, 15km NE of Mariupol)	N/K SE	Heard	1	Explosion	Undetermined	N/K	31-Mar, 11:07-11:13
	N/K E	Heard	3	Explosion	Undetermined	N/K	31-Mar, 11:07-11:13
	N/K E	Heard	1	Explosion	Undetermined	N/K	31-Mar, 11:38
	N/K NE	Heard	14	Explosion	Undetermined	N/K	31-Mar, 12:03-12:07
	N/K NE	Heard	10	Burst		HMG	31-Mar, 12:03-12:07
Hranitne (government-controlled, 25km N of Mariupol)	1-2km ESE	Heard	1	Explosion	Undetermined	N/K	31-Mar, 11:26
About 2km SE of Lebedynske (government-controlled, 16km NE of Mariupol)	N/K NNE	Heard	2	Explosion	Undetermined	N/K	31-Mar, 12:58
	N/K NNE	Heard	2	Explosion	Undetermined	N/K	31-Mar, 13:03
1km NNW of Pyshchevyk (government-controlled, 25km NE of Mariupol)	N/K NE	Heard	2	Explosion	Undetermined	N/K	31-Mar, 13:33-13:38
	N/K NE	Heard	10	Burst		HMG	31-Mar, 13:33-13:38
N edge of Horlivka (non-government-controlled, 39 km NE of Donetsk)	400-500m WSW	Heard	1	Explosion	Undetermined	N/K	31-Mar, 09:47
Maiorsk (government-controlled, 45km NE of Donetsk)	1-2km SE	Heard	15	Burst		Small arms	31-Mar, 11:52
Svitlodarsk (government-controlled, 57km NE of Donetsk)	1-2km SSW	Heard	1	Explosion	Outgoing	Mortar (120mm)	31-Mar, 17:58
	1-2km SSW	Heard	2	Explosion	Undetermined	N/K	31-Mar, 18:11-18:12
SMM camera in Kriakivka (government-controlled, 38km NW of Luhansk)	4-5km SSW	Recorded	2	Explosion	Undetermined	N/K	30-Mar, 20:51

SMM camera on N edge of Popasna (government-controlled, 69km W of Luhansk)	2-4km ESE	Recorded	1	Explosion	Impact	N/K	30-Mar, 18:42
SMM camera on N edge of Popasna (government-controlled, 69km W of Luhansk)	2-4km SE	Recorded	3	Projectile	N to S	N/K	30-Mar, 22:06
	2-4km SE	Recorded	5	Projectile	N to S	N/K	30-Mar, 22:34
SMM camera in Zolote (government-controlled, 60km W of Luhansk)	2-4km E	Recorded	9	Projectile	In vertical flight (assessed as outside the disengagement area)	N/K	30-Mar, 18:48
	2-4km E	Recorded	32	Projectile	In vertical flight (assessed as outside the disengagement area)	N/K	30-Mar, 18:50
	2-4km E	Recorded	14	Projectile	N to S (assessed as outside the disengagement area)	N/K	30-Mar, 18:50
	2-4km ESE	Recorded	11	Projectile	In vertical flight (assessed as outside the disengagement area)	N/K	30-Mar, 18:50
	2-4km E	Recorded	6	Projectile	N to S (assessed as outside the disengagement area)	N/K	30-Mar, 18:50
	2-4km ESE	Recorded	40	Projectile	In vertical flight (assessed as outside the disengagement area)	N/K	30-Mar, 18:51
	2-4km E	Recorded	1	Projectile	In vertical flight (assessed as outside the disengagement area)	N/K	30-Mar, 18:59
	2-4km E	Recorded	3	Projectile	S to N (assessed as outside the disengagement area)	N/K	30-Mar, 19:31
	2-4km ESE	Recorded	1	Projectile	In vertical flight (assessed as outside the disengagement area)	N/K	30-Mar, 19:32
	2-4km E	Recorded	1	Projectile	N to S (assessed as outside the disengagement area)	N/K	30-Mar, 19:57
	2-4km E	Recorded	2	Projectile	NW to SE (assessed as	N/K	30-Mar, 22:36

					outside the disengagement area)		
	2-4km E	Recorded	5	Projectile	NW to SE (assessed as outside the disengagement area)	N/K	30-Mar, 23:46
	2-4km E	Recorded	3	Projectile	W to E (assessed as outside the disengagement area)	N/K	30-Mar, 23:47
	2-4km E	Recorded	2	Projectile	S to N (assessed as outside the disengagement area)	N/K	31-Mar, 02:33
Kadiivka (formerly Stakhanov, non-government-controlled, 50km W of Luhansk)	300-500m NW	Heard and saw	40	Burst	Tracer rounds seen	Small arms	30-Mar, 18:48-18:52
Novoaidar (government-controlled, 49km NW of Luhansk)	10km SSE	Heard	4	Explosion	Undetermined	N/K	30-Mar, 21:52
About 1.3km NNW of Kalynove-Borshchuvate (non-government-controlled, 61km W of Luhansk)	2-4km SSW	Heard	6	Shot		Small arms	31-Mar, 09:56-10:02
	2-4km SSW	Heard	10	Burst		Small arms	31-Mar, 09:56-10:02
	2-3km SW	Heard	6	Burst		HMG	31-Mar, 11:10
	1-1.5km SW	Heard	6	Shot		HMG	31-Mar, 11:11-11:10
About 1.5km SW of Molodizhne (non-government-controlled, 63km NW of Luhansk)	2-3km S	Heard	5	Shot	Assessed as outside the disengagement area	HMG	31-Mar, 10:20-10:26
	2-3km S	Heard	1	Explosion	Undetermined (assessed as outside the Zolote disengagement area)	N/K	31-Mar, 10:20-10:26
1.7km SW of Molodizhne (non-government-controlled, 63km NW of Luhansk)	1-1.5km SSW	Heard	20	Shot		Small arms	31-Mar, 11:43-11:45
1km N of Pervomaisk (non-government-	600m WNW	Heard	1	Burst	Assessed as inside the Zolote disengagement	HMG	31-Mar, 10:53

controlled, 58km W of Luhansk)					area		
Sentianivka (formerly Frunze, non-government-controlled, 44km W of Luhansk)	5-7km NW	Heard	1	Explosion	Undetermined	N/K	31-Mar, 11:25-11:26
Berezivske (non-government-controlled, 53km NW of Luhansk)	7-9km ENE	Heard	63	Burst		HMG	31-Mar, 11:57-12:11
S edge of Zolote-5/Mykhailivka (non-government-controlled, 58km W of Luhansk)	1-1.5km NW	Heard	4	Shot	Assessed as outside the disengagement area	Small arms	31-Mar, 12:33

## 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).