SMM position	<b>Event location</b>	Means	No.	Observation	Description	Weapon	Date, time
SMM camera in	2-4km SE	Recorded	5	Projectile	SW to NE	N/K	30-Oct, 17:01
Berezove	2-4km SE	Recorded	1	Projectile	SW to NE	N/K	30-Oct, 18:39
(government-	2-4km SE	Recorded	2	Projectile	SW to NE	N/K	30-Oct, 21:03
controlled,	2-4km SE	Recorded	6	Projectile	SW to NE	N/K	30-Oct, 21:20
31km SW of	2-4km SE	Recorded	1	Muzzle flash	SW IO IL	N/K	30-Oct, 21:20
Donetsk)	2-4km ESE	Recorded	1	Projectile	SW to NE	N/K	30-Oct, 22:05
,	2-4km ESE	Recorded	2	Projectile	SW to NE	N/K	30-Oct, 22:05
	2-4km SE	Recorded	2	Projectile	SW to NE	N/K	31-Oct, 04:55
SMM camera in	3-5km SE	Recorded	9	Projectile	ENE to WSW	N/K	30-Oct, 18:00
Chermalyk	3-5km SE	Recorded	9	Projectile	ENE to WSW	N/K	30-Oct, 18:01
(government-	3-5km SE	Recorded	1	Explosion	Undetermined	N/K	30-Oct, 18:01
controlled,	3-5km SE	Recorded	1	Explosion	Undetermined	N/K	30-Oct, 18:01
31km NE of	3-5km SE	Recorded	5	Projectile	ENE to WSW	N/K	30-Oct, 18:03
Mariupol)	3-5km SE	Recorded	1	Projectile	NE to SW	N/K	30-Oct, 18:03
1 /	3-5km SSE	Recorded	2	Projectile	WNW to ESE	N/K	30-Oct, 18:04
	3-5km SE	Recorded	19	Projectile	ENE to WSW	N/K	30-Oct, 18:04
	3-5km SE	Recorded	19	Projectile	ENE to WSW	N/K	30-Oct, 18:05
	3-5km S	Recorded	6	Projectile	WSW to ENE	N/K N/K	30-Oct, 18:05
	3-5km S	Recorded	1	Projectile	WSW to ENE	N/K	30-Oct, 18:06
	3-5km SE	Recorded	2	Projectile	ENE to WSW	N/K	30-Oct, 18:06
	3-5km S	Recorded	9	Projectile	WSW to ENE	N/K	
	3-5km S	Recorded	9	Projectile	WSW to ENE	N/K	30-Oct, 18:07
				5			30-Oct, 18:08
	3-5km S	Recorded	1	Projectile	WSW to ENE	N/K	30-Oct, 18:13
	3-5km S	Recorded	2	Projectile	WSW to ENE	N/K	30-Oct, 18:15
	3-5km SE	Recorded	2	Projectile	ENE to WSW	N/K	30-Oct, 18:15
	3-5km SE	Recorded	1	Explosion	Impact	N/K	30-Oct, 18:15
	3-5km S	Recorded	2 9	Projectile	WSW to ENE	N/K	30-Oct, 18:16
	3-5km SE	Recorded		Projectile	ENE to WSW	N/K	30-Oct, 18:18
	3-5km SSE	Recorded Recorded	32	Projectile	NE to SW Undetermined	N/K N/K	30-Oct, 18:18
	3-5km SSE	Recorded	2	Explosion	WSW to ENE	N/K	30-Oct, 18:18
	3-5km SSE			Projectile	W to E		30-Oct, 18:18
	3-5km SSE	Recorded	2	Projectile		N/K	30-Oct, 18:20
	3-5km SSE	Recorded	10	Projectile	W to E	N/K	30-Oct, 18:21
	3-5km SE	Recorded	5	Projectile	ENE to WSW	N/K	30-Oct, 18:21
	3-5km SSE	Recorded	14	Muzzle flash	ENE ( WOW	N/K	30-Oct, 18:22
	3-5km SSE	Recorded	9	Projectile	ENE to WSW	N/K	30-Oct, 18:22
	3-5km SSE	Recorded	1	Projectile	WSW to ENE	N/K	30-Oct, 18:22
	3-5km SE	Recorded	9	Projectile	ENE to WSW	N/K	30-Oct, 18:23
	2-4km S	Recorded	1	Projectile	WSW to ENE	N/K	30-Oct, 19:30
	2-4km SSE	Recorded	13	Projectile	WSW to ENE	N/K	30-Oct, 19:31
	2-4km S	Recorded	2	Projectile	WSW to ENE	N/K	30-Oct, 19:32
	2-4km S	Recorded	3	Projectile	WSW to ENE	N/K	30-Oct, 19:33
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	30-Oct, 19:47
	2-4km SSE	Recorded	4	Projectile	ENE to WSW	N/K	30-Oct, 20:58
	2-4km SSE	Recorded	4	Projectile	WSW to ENE	N/K	30-Oct, 21:00
0.0.(	2-4km SSE	Recorded	1	Projectile	WSW to ENE	N/K	30-Oct, 22:54
SMM camera at	2-3km SSW	Recorded	1	Projectile	WNW to ESE	N/K	30-Oct, 17:13
Donetsk	2-3km SSW	Recorded	1	Muzzle flash	TT 1 / · · ·	N/K	30-Oct, 17:13
Filtration	3-5km SSW	Recorded	1	Explosion	Undetermined	N/K	30-Oct, 18:18
Station (15km N	2-3km SSW	Recorded	2	Projectile	E to W	N/K	30-Oct, 18:22
of Donetsk)	1-2km S	Recorded	1	Projectile	ESE to WNW	N/K	30-Oct, 18:55
	1-2km S	Recorded	1	Projectile	E to W	N/K	30-Oct, 20:09
	1-3km S	Recorded	1	Projectile	E to W	N/K	30-Oct, 20:10

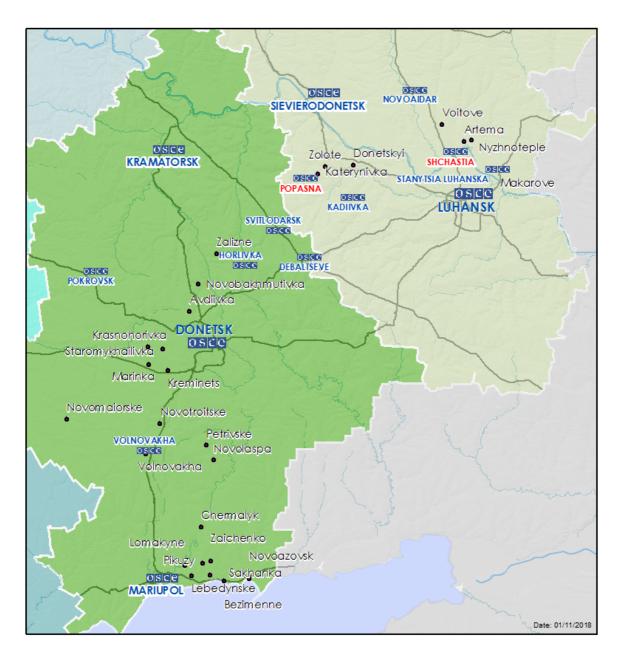
## Table of ceasefire violations as of 31 October 2018<sup>1</sup>

<sup>&</sup>lt;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.

		1					1
	1-3km SSW	Recorded	1	Projectile	NW to SE	N/K	30-Oct, 21:09
	1-3km SSW	Recorded	2	Projectile	SSW to NNE	N/K	30-Oct, 21:09
	1-3km SSW	Recorded	3	Explosion	Undetermined	N/K	30-Oct, 21:09
	1-3km SSW	Recorded	1	Explosion	Undetermined	N/K	30-Oct, 21:31
	1-3km S	Recorded	12	Explosion	Undetermined	N/K	30-Oct, 21:32
	1-3km S	Recorded	10	Explosion	Undetermined	N/K	30-Oct, 21:33
	1-3km SSW	Recorded	4	Projectile	WNW to ESE	N/K	30-Oct, 21:33
	1-3km SSW	Recorded	3	Projectile	S to N	N/K	30-Oct, 21:33
	2-3km SSW	Recorded	1	Projectile	NW to SE	N/K	30-Oct, 21:33
	0.5-1km SSW	Recorded	3	Projectile	WNW to ESE	N/K	30-Oct, 22:31
	1-3km SSW	Recorded	1	Explosion	Undetermined	N/K	31-Oct, 03:35
SMM camera	2-4km E	Recorded	8	Projectile	N to S	N/K	30-Oct, 18:49
1.5km NE of	2-4km E	Recorded	1	Projectile	N to S	N/K	30-Oct, 18:50
Hnutove	2-4km E	Recorded	1	Projectile	N to S	N/K N/K	30-Oct, 18:51
(government-			1				
controlled,	2-4km ENE	Recorded	-	Projectile	N to S	N/K	30-Oct, 18:52
20km NE of	2-4km NE	Recorded	2	Projectile	S to N	N/K	30-Oct, 18:53
Mariupol)	2-4km SE	Recorded	4	Projectile	S to N	N/K	30-Oct, 18:57
Mariupor)	2-4km E	Recorded	3	Projectile	N to S	N/K	30-Oct, 18:57
	2-4km E	Recorded	3	Muzzle flash		N/K	30-Oct, 18:58
	2-4km SE	Recorded	1	Projectile	S to N	N/K	30-Oct, 18:59
	2-4km E	Recorded	2	Projectile	N to S	N/K	30-Oct, 18:59
	2-4km ENE	Recorded	5	Projectile	S to N	N/K	30-Oct, 18:59
	3-5km E	Recorded	8	Projectile	NW to SE	N/K	30-Oct, 20:30
SMM camera E							
of Lomakyne	3-5km ENE	Recorded	1	Explosion	Undetermined	N/K	30-Oct, 19:03
(government-				-			,
controlled,							
15km NE of	3-5km ENE	Recorded	1	Explosion	Airburst	N/K	30-Oct, 19:03
Mariupol)				1			,
SMM camera at	1-2km SSE	Recorded	5	Projectile	W to E	N/K	30-Oct, 18:07
entry-exit	1-2km SSE	Recorded	3	Burst	WNW to ESE	N/K	30-Oct, 18:24
checkpoint in	1-2km SE	Recorded	1	Projectile	ENE to WSW	N/K	30-Oct, 19:06
Pyshchevyk	1-2km SE	Recorded	1	Explosion	Impact	N/K	30-Oct, 19:06
(government-	1-2km SE	Recorded	1	Projectile	E to W	N/K	30-Oct, 19:17
controlled,	1-2KIII SL	Recolucu	1	Tiojeenie	LIUW	11/1	50-001, 17.17
	1-2km SF	Recorded	1	Burst	E to W	N/K	30-Oct 19.17
25km NE of	1-2km SE	Recorded	1	Burst	E to W	N/K	30-Oct, 19:17
25km NE of Mariupol)							
25km NE of Mariupol) Debaltseve	1-2km SE 3-6km NNE	Recorded Heard	1	Burst Explosion	E to W Undetermined	N/K N/K	30-Oct, 18:08-
25km NE of Mariupol) Debaltseve (non-							
25km NE of Mariupol) Debaltseve (non- government-	3-6km NNE	Heard	6	Explosion	Undetermined	N/K	30-Oct, 18:08- 18:14
25km NE of Mariupol) Debaltseve (non- government- controlled,							30-Oct, 18:08-
25km NE of Mariupol) Debaltseve (non- government- controlled, 58km NE of	3-6km NNE	Heard	6	Explosion	Undetermined	N/K	30-Oct, 18:08- 18:14
25km NE of Mariupol) Debaltseve (non- government- controlled, 58km NE of Donetsk)	3-6km NNE	Heard	6	Explosion	Undetermined	N/K	30-Oct, 18:08- 18:14
25km NE of Mariupol) Debaltseve (non- government- controlled, 58km NE of Donetsk) SE part of	3-6km NNE 3-6km NNE	Heard	6	Explosion Explosion	Undetermined Undetermined	N/K N/K	30-Oct, 18:08- 18:14 30-Oct, 22:05
25km NE of Mariupol) Debaltseve (non- government- controlled, 58km NE of Donetsk) SE part of Avdiivka	3-6km NNE	Heard	6	Explosion	Undetermined	N/K	30-Oct, 18:08- 18:14
25km NE of Mariupol) Debaltseve (non- government- controlled, 58km NE of Donetsk) SE part of Avdiivka (government-	3-6km NNE 3-6km NNE	Heard	6	Explosion Explosion	Undetermined Undetermined	N/K N/K	30-Oct, 18:08- 18:14 30-Oct, 22:05
25km NE of Mariupol) Debaltseve (non- government- controlled, 58km NE of Donetsk) SE part of Avdiivka (government- controlled,	3-6km NNE 3-6km NNE 1km SE	Heard Heard Heard	6 3 1	Explosion Explosion Explosion	Undetermined Undetermined	N/K N/K N/K	30-Oct, 18:08- 18:14 30-Oct, 22:05 31-Oct, 07:59
25km NE of Mariupol) Debaltseve (non- government- controlled, 58km NE of Donetsk) SE part of Avdiivka (government- controlled, 17km N of	3-6km NNE 3-6km NNE	Heard	6	Explosion Explosion	Undetermined Undetermined	N/K N/K	30-Oct, 18:08- 18:14 30-Oct, 22:05
25km NE of Mariupol) Debaltseve (non- government- controlled, 58km NE of Donetsk) SE part of Avdiivka (government- controlled, 17km N of Donetsk)	3-6km NNE 3-6km NNE 1km SE 1.5-2km E	Heard Heard Heard Heard Heard	6 3 1 7	Explosion Explosion Explosion Explosion	Undetermined Undetermined Undetermined	N/K N/K N/K	30-Oct, 18:08- 18:14 30-Oct, 22:05 31-Oct, 07:59 31-Oct, 10:26
25km NE of Mariupol) Debaltseve (non- government- controlled, 58km NE of Donetsk) SE part of Avdiivka (government- controlled, 17km N of Donetsk) SW part of	3-6km NNE 3-6km NNE 1km SE 1.5-2km E 2-3km S	Heard Heard Heard Heard Heard Heard	6 3 1 7 2	Explosion Explosion Explosion Explosion Explosion	Undetermined Undetermined	N/K N/K N/K N/K	30-Oct, 18:08- 18:14 30-Oct, 22:05 31-Oct, 07:59 31-Oct, 10:26 31-Oct, 11:12
25km NE of Mariupol) Debaltseve (non- government- controlled, 58km NE of Donetsk) SE part of Avdiivka (government- controlled, 17km N of Donetsk) SW part of Avdiivka	3-6km NNE 3-6km NNE 1km SE 1.5-2km E 2-3km S 2-3km S	Heard Heard Heard Heard Heard Heard Heard	6 3 1 7 <u>2</u> 3	Explosion Explosion Explosion Explosion Explosion Burst	Undetermined Undetermined Undetermined Undetermined	N/K N/K N/K N/K HMG	30-Oct, 18:08- 18:14 30-Oct, 22:05 31-Oct, 07:59 31-Oct, 10:26 31-Oct, 11:12 31-Oct, 11:27
25km NE of Mariupol) Debaltseve (non- government- controlled, 58km NE of Donetsk) SE part of Avdiivka (government- controlled, 17km N of Donetsk) SW part of Avdiivka (government-	3-6km NNE 3-6km NNE 1km SE 1.5-2km E 2-3km S 2-3km S 2-4km S	Heard Heard Heard Heard Heard Heard Heard Heard Heard	6 3 1 7 2 3 2	Explosion Explosion Explosion Explosion Explosion Burst Explosion	Undetermined Undetermined Undetermined	N/K N/K N/K N/K HMG N/K	30-Oct, 18:08- 18:14 30-Oct, 22:05 31-Oct, 07:59 31-Oct, 10:26 31-Oct, 11:12 31-Oct, 11:27 31-Oct, 11:29
25km NE of Mariupol) Debaltseve (non- government- controlled, 58km NE of Donetsk) SE part of Avdiivka (government- controlled, 17km N of Donetsk) SW part of Avdiivka (government- controlled,	3-6km NNE 3-6km NNE 1km SE 1.5-2km E 2-3km S 2-3km S 2-4km S 2-3km E	Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard	6 3 1 7 2 3 2 7	Explosion Explosion Explosion Explosion Explosion Burst	Undetermined Undetermined Undetermined Undetermined	N/K N/K N/K N/K HMG N/K HMG	30-Oct, 18:08- 18:14 30-Oct, 22:05 31-Oct, 07:59 31-Oct, 10:26 31-Oct, 11:12 31-Oct, 11:27 31-Oct, 11:29 31-Oct, 11:34
25km NE of Mariupol) Debaltseve (non- government- controlled, 58km NE of Donetsk) SE part of Avdiivka (government- controlled, 17km N of Donetsk) SW part of Avdiivka (government- controlled, 17km N of	3-6km NNE 3-6km NNE 1km SE 1.5-2km E 2-3km S 2-3km S 2-3km E 2-3km S	Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard	6 3 1 7 2 3 2	Explosion Explosion Explosion Explosion Burst Explosion Burst Burst Burst	Undetermined Undetermined Undetermined Undetermined	N/K N/K N/K N/K HMG N/K HMG HMG	30-Oct, 18:08- 18:14 30-Oct, 22:05 31-Oct, 07:59 31-Oct, 10:26 31-Oct, 11:12 31-Oct, 11:27 31-Oct, 11:29 31-Oct, 11:34 31-Oct, 11:38
25km NE of Mariupol) Debaltseve (non- government- controlled, 58km NE of Donetsk) SE part of Avdiivka (government- controlled, 17km N of Donetsk) SW part of Avdiivka (government- controlled,	3-6km NNE 3-6km NNE 1km SE 1.5-2km E 2-3km S 2-3km S 2-4km S 2-3km E	Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard	6 3 1 7 2 3 2 7	Explosion Explosion Explosion Explosion Burst Explosion Burst	Undetermined Undetermined Undetermined Undetermined	N/K N/K N/K N/K HMG N/K HMG	30-Oct, 18:08- 18:14 30-Oct, 22:05 31-Oct, 07:59 31-Oct, 10:26 31-Oct, 11:12 31-Oct, 11:27 31-Oct, 11:29 31-Oct, 11:34
25km NE of Mariupol) Debaltseve (non- government- controlled, 58km NE of Donetsk) SE part of Avdiivka (government- controlled, 17km N of Donetsk) SW part of Avdiivka (government- controlled, 17km N of	3-6km NNE 3-6km NNE 1km SE 1.5-2km E 2-3km S 2-3km S 2-3km E 2-3km S	Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard	6 3 1 7 2 3 2 7 15	Explosion Explosion Explosion Explosion Burst Explosion Burst Burst Burst	Undetermined Undetermined Undetermined Undetermined Undetermined	N/K N/K N/K N/K HMG N/K HMG HMG	30-Oct, 18:08- 18:14 30-Oct, 22:05 31-Oct, 07:59 31-Oct, 10:26 31-Oct, 11:12 31-Oct, 11:27 31-Oct, 11:29 31-Oct, 11:34 31-Oct, 11:38
25km NE of Mariupol) Debaltseve (non- government- controlled, 58km NE of Donetsk) SE part of Avdiivka (government- controlled, 17km N of Donetsk) SW part of Avdiivka (government- controlled, 17km N of	3-6km NNE 3-6km NNE 1km SE 1.5-2km E 2-3km S 2-3km S 2-3km S 2-3km S 2-3km S 2-3km S	Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard	6 3 1 7 2 3 2 7 15 3	Explosion Explosion Explosion Explosion Burst Explosion Burst Burst Explosion	Undetermined Undetermined Undetermined Undetermined Undetermined	N/K N/K N/K N/K HMG N/K HMG HMG N/K	30-Oct, 18:08- 18:14 30-Oct, 22:05 31-Oct, 07:59 31-Oct, 10:26 31-Oct, 11:12 31-Oct, 11:27 31-Oct, 11:29 31-Oct, 11:34 31-Oct, 11:38 31-Oct, 11:41 31-Oct, 11:41
25km NE of Mariupol) Debaltseve (non- government- controlled, 58km NE of Donetsk) SE part of Avdiivka (government- controlled, 17km N of Donetsk) SW part of Avdiivka (government- controlled, 17km N of	3-6km NNE 3-6km NNE 1km SE 1.5-2km E 2-3km S 2-3km S	Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard	6 3 1 7 2 3 2 7 15 3 3 7	Explosion Explosion Explosion Explosion Burst Explosion Burst Explosion Explosion Burst Explosion Explosion Explosion Explosion	Undetermined Undetermined Undetermined Undetermined Undetermined	N/K N/K N/K N/K HMG HMG HMG N/K N/K	30-Oct, 18:08- 18:14 30-Oct, 22:05 31-Oct, 07:59 31-Oct, 10:26 31-Oct, 11:12 31-Oct, 11:27 31-Oct, 11:29 31-Oct, 11:34 31-Oct, 11:38 31-Oct, 11:41 31-Oct, 11:41 31-Oct, 12:20
25km NE of Mariupol) Debaltseve (non- government- controlled, 58km NE of Donetsk) SE part of Avdiivka (government- controlled, 17km N of Donetsk) SW part of Avdiivka (government- controlled, 17km N of	3-6km NNE 3-6km NNE 1km SE 1.5-2km E 2-3km S 2-3km S	Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard	6 3 1 7 2 3 2 7 15 3 3	Explosion Explosion Explosion Explosion Burst Explosion Burst Explosion Explosion Burst Explosion Explosion Explosion Explosion	Undetermined Undetermined Undetermined Undetermined Undetermined Outgoing Impact	N/K N/K N/K N/K N/K HMG N/K HMG HMG N/K N/K HMG N/K	30-Oct, 18:08- 18:14 30-Oct, 22:05 31-Oct, 07:59 31-Oct, 10:26 31-Oct, 11:12 31-Oct, 11:27 31-Oct, 11:29 31-Oct, 11:34 31-Oct, 11:38 31-Oct, 11:41 31-Oct, 11:41 31-Oct, 12:20 31-Oct, 12:41
25km NE of Mariupol) Debaltseve (non- government- controlled, 58km NE of Donetsk) SE part of Avdiivka (government- controlled, 17km N of Donetsk) SW part of Avdiivka (government- controlled, 17km N of Donetsk)	3-6km NNE 3-6km NNE 1km SE 1.5-2km E 2-3km S 2-3km S	Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard	6 3 1 7 2 3 2 7 15 3 7 2 2	Explosion Explosion Explosion Explosion Burst Explosion Burst Explosion Explosion Burst Explosion Explosion Explosion Explosion	Undetermined Undetermined Undetermined Undetermined Undetermined Outgoing Impact	N/K N/K N/K N/K N/K HMG HMG HMG HMG N/K N/K HMG	30-Oct, 18:08- 18:14 30-Oct, 22:05 31-Oct, 07:59 31-Oct, 10:26 31-Oct, 11:12 31-Oct, 11:27 31-Oct, 11:29 31-Oct, 11:34 31-Oct, 11:38 31-Oct, 11:41 31-Oct, 11:41 31-Oct, 12:20
25km NE of Mariupol) Debaltseve (non- government- controlled, 58km NE of Donetsk) SE part of Avdiivka (government- controlled, 17km N of Donetsk) SW part of Avdiivka (government- controlled, 17km N of Donetsk)	3-6km NNE 3-6km NNE 1km SE 1.5-2km E 2-3km S 2-3km S	Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard	6 3 1 7 2 3 2 7 15 3 7 2 2	Explosion Explosion Explosion Explosion Burst Explosion Burst Explosion Explosion Burst Explosion Explosion Explosion Explosion	Undetermined Undetermined Undetermined Undetermined Undetermined Outgoing Impact	N/K N/K N/K N/K N/K HMG N/K HMG N/K N/K HMG N/K	30-Oct, 18:08- 18:14 30-Oct, 22:05 31-Oct, 07:59 31-Oct, 10:26 31-Oct, 11:12 31-Oct, 11:27 31-Oct, 11:29 31-Oct, 11:34 31-Oct, 11:38 31-Oct, 11:41 31-Oct, 11:41 31-Oct, 12:20 31-Oct, 12:41
25km NE of Mariupol) Debaltseve (non- government- controlled, 58km NE of Donetsk) SE part of Avdiivka (government- controlled, 17km N of Donetsk) SW part of Avdiivka (government- controlled, 17km N of Donetsk) SW part of Avdiivka (government- controlled, 17km N of Donetsk)	3-6km NNE 3-6km NNE 1km SE 1.5-2km E 2-3km S 2-3km S 2-3km S 2-3km S 2-3km S 2-3km SE 2-3km SE 2-3km SE 2-3km S	Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard	6 3 1 7 2 3 2 7 15 3 3 7 2 1	Explosion Explosion Explosion Explosion Burst Explosion Burst Explosion Explosion Burst Explosion Explosion Explosion	Undetermined Undetermined Undetermined Undetermined Undetermined Outgoing Impact Undetermined Undetermined	N/K N/K N/K N/K N/K HMG N/K HMG N/K N/K HMG N/K N/K	30-Oct, 18:08- 18:14   30-Oct, 22:05   31-Oct, 07:59   31-Oct, 10:26   31-Oct, 11:12   31-Oct, 11:27   31-Oct, 11:29   31-Oct, 11:34   31-Oct, 11:41   31-Oct, 12:20   31-Oct, 12:41   31-Oct, 13:09
25km NE of Mariupol) Debaltseve (non- government- controlled, 58km NE of Donetsk) SE part of Avdiivka (government- controlled, 17km N of Donetsk) SW part of Avdiivka (government- controlled, 17km N of Donetsk) SW part of Avdiivka (government- controlled, 17km N of Donetsk)	3-6km NNE 3-6km NNE 1km SE 1.5-2km E 2-3km S 2-3km S	Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard	6 3 1 7 2 3 2 7 15 3 7 2 2	Explosion Explosion Explosion Explosion Burst Explosion Burst Explosion Explosion Burst Explosion Explosion Explosion Explosion	Undetermined Undetermined Undetermined Undetermined Undetermined Outgoing Impact	N/K N/K N/K N/K N/K HMG N/K HMG N/K N/K HMG N/K	30-Oct, 18:08- 18:14 30-Oct, 22:05 31-Oct, 07:59 31-Oct, 10:26 31-Oct, 11:12 31-Oct, 11:27 31-Oct, 11:29 31-Oct, 11:34 31-Oct, 11:38 31-Oct, 11:41 31-Oct, 11:41 31-Oct, 12:20 31-Oct, 12:41
25km NE of Mariupol) Debaltseve (non- government- controlled, 58km NE of Donetsk) SE part of Avdiivka (government- controlled, 17km N of Donetsk) SW part of Avdiivka (government- controlled, 17km N of Donetsk) SW part of Avdiivka (government- controlled, 17km N of Donetsk)	3-6km NNE 3-6km NNE 1km SE 1.5-2km E 2-3km S 2-3km S 2-3km S 2-3km S 2-3km S 2-3km SE 2-3km SE 2-3km SE 2-3km S	Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard	6 3 1 7 2 3 2 7 15 3 3 7 2 1	Explosion Explosion Explosion Explosion Burst Explosion Burst Explosion Explosion Burst Explosion Explosion Explosion	Undetermined Undetermined Undetermined Undetermined Undetermined Outgoing Impact Undetermined Undetermined	N/K N/K N/K N/K N/K HMG N/K HMG N/K N/K HMG N/K N/K	30-Oct, 18:08- 18:14   30-Oct, 22:05   31-Oct, 07:59   31-Oct, 10:26   31-Oct, 11:12   31-Oct, 11:27   31-Oct, 11:29   31-Oct, 11:34   31-Oct, 11:41   31-Oct, 12:20   31-Oct, 12:41   31-Oct, 13:09
25km NE of Mariupol) Debaltseve (non- government- controlled, 58km NE of Donetsk) SE part of Avdiivka (government- controlled, 17km N of Donetsk) SW part of Avdiivka (government- controlled, 17km N of Donetsk) SW part of Avdiivka (government- controlled, 17km N of Donetsk)	3-6km NNE 3-6km NNE 1km SE 1.5-2km E 2-3km S 2-3km S 2-3km S 2-3km S 2-3km S 2-3km SE 2-3km SE 2-3km SE 2-3km S	Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard Heard	6 3 1 7 2 3 2 7 15 3 3 7 2 1	Explosion Explosion Explosion Explosion Burst Explosion Burst Explosion Explosion Burst Explosion Explosion Explosion	Undetermined Undetermined Undetermined Undetermined Undetermined Outgoing Impact Undetermined Undetermined	N/K N/K N/K N/K N/K HMG N/K HMG N/K N/K HMG N/K N/K	30-Oct, 18:08- 18:14   30-Oct, 22:05   31-Oct, 07:59   31-Oct, 10:26   31-Oct, 11:12   31-Oct, 11:27   31-Oct, 11:29   31-Oct, 11:34   31-Oct, 11:41   31-Oct, 12:20   31-Oct, 12:41   31-Oct, 13:09

16km NE of							
Donetsk) Marinka							
(government-							
controlled,	1-2km E	Heard	13	Shot		Small	31-Oct, 08:37
23km SW of			_			arms	- ,
Donetsk)							
Petrivske (non-					Assessed		
government- controlled,	1-2km SE	Heard	1	Burst	outside of the	Small	31-Oct, 10:00
41km S of	1-2KIII SE	ficalu	1	Buist	disengagemen	arms	51-00, 10.00
Donetsk)					t area		
1km NNW of	N/K SE	Heard	1	Explosion	Undetermined	N/K	31-Oct, 09:30
entry-exit	N/K SE	Heard	1	Explosion	Undetermined	N/K	31-Oct, 09:55
checkpoint in	N/K SE	Heard	1	Explosion	Undetermined	N/K	31-Oct, 10:06
Pyshchevyk (government-	N/K SE	Heard	1	Burst		Small arms	31-Oct, 10:24
controlled, 25	N/K SE	Heard	1	Explosion	Undetermined	N/K	31-Oct, 10:43
km NE of Mariupol)	N/K SE	Heard	1	Explosion	Undetermined	N/K	31-Oct, 14:16-
Mariupor)				1		Small	14:18 31-Oct, 14:16-
	N/K SE	Heard	21	Burst		arms	14:18
Novotroitske	1-2km NNE	TT 1		Shot	Uncountable,	Small	31-Oct, 11:30-
(government-	1-2km ININE	Heard		Shot	overlapping	arms	11:45
controlled,	1-2km NNE	Heard		Shot	Uncountable,	Small	31-Oct, 11:45-
36km SW of Donetsk					overlapping	arms Small	12:05 31-Oct, 11:45-
Donetsk	1-2km NNE	Heard	15	Burst		arms	12:05
	1-2km NNE	Heard	70	Shot		Small	31-Oct, 12:05-
	1-2km NINE	Heard	70	Shot		arms	12:25
	1-2km NNE	Heard	4	Burst		Small arms	31-Oct, 12:05- 12:25
Naberezhne							
(non-						G 11	21.0 + 11.51
government- controlled, 33	1km SW	Heard	38	Shot		Small arms	31-Oct, 11:51- 11:57
km NE of						arms	11.37
Mariupol)							
2.3 km SE of							
Lebedynske							
(government-	N/K NNE	Heard	2	Explosion	Undetermined		31-Oct, 11:55
controlled, 16km NE of				-			
Mariupol)							
Svitlodarsk	5-7km SE	Heard	6	Explosion	Undetermined	N/K	30-Oct, 19:15-
(government-	J-/KIII SE	ficalu	0	Explosion	Undetermined	IN/K	19:18
controlled, 57km NE of	5-7km SE	Heard	8	Explosion	Undetermined	N/K	30-Oct, 19:19- 19:30
Donetsk)				-		Small	30-Oct, 19:20-
	5-7km SE	Heard	27	Burst		arms	19:30
	5-7km SE	Heard	11	Burst		HMG	30-Oct, 19:20-
							19:31
	3-4km ESE	Heard	3	Burst	+	HMG Small	30-Oct, 19:41 30-Oct, 20:05-
	5-7km SE	Heard	8	Burst		arms	20:15
	5-7km SE	Heard	7	Explosion	Undetermined	N/K	30-Oct, 20:05-
	J-7KIII JE	Ticalu	,	Explosion	Ondetermined	11/1	20:15
	5-7km SE	Heard	17	Burst		HMG	30-Oct, 20:05- 20:15
					+		20:15 30-Oct, 20:31-
	5-7km SE	Heard	21	Explosion	Undetermined	N/K	20:46
	5-7km SE	Heard	6	Explosion	Undetermined	N/K	30-Oct, 20:50-
			Ť				20:53
	3-5km SE	Heard	2	Burst		Small arms	30-Oct, 21:02
L	l	1	1	1	1	a1115	

	5-7km SSE	Heard	1	Explosion	Undetermined	N/K	30-Oct, 21:49
	3-4km SE	Heard	3	Burst		Small arms	30-Oct, 21:54
	3-4km SE	Heard	4	Shot		HMG	30-Oct, 22:12
	4-6km SE	Heard	9	Burst		HMG	31-Oct, 14:19- 14:21
2km WSW of	3-5km SE	Heard	1	Explosion	Undetermined	N/K	31-Oct, 10:30
Zalizne	3-5km SE	Heard	2	Burst		HMG	31-Oct, 11:24
(government-	4-6km S	Heard	2	Explosion	Undetermined	N/K	31-Oct, 14:00
controlled,	4-6km S	Heard	1	Explosion	Undetermined	N/K	31-Oct, 14:10
42km NE of Donetsk)	4-6km SE	Heard	1	Explosion	Undetermined	N/K	31-Oct, 14:22
2km E of Semyhiria (government- controlled, 58km NE of Donetsk)	2.5km SE	Heard	1	Explosion	Undetermined	N/K	31-Oct, 11:10
Horlivka (non- government- controlled, 39km NE of Donetsk)	4-5km NW	Heard	1	Explosion	Undetermined	N/K	31-Oct, 14:09
S edge of Zolote (non- government- controlled, 58km W of Luhansk)	2-3km NNE	Heard	1	Explosion	Impact (assessed as outside the disengagemen t area)	N/K	31-Oct, 09:15
NE edge of Dachne (non-	5-7km N	Heard	15	Burst		HMG	31-Oct, 11:00- 11:25
government- controlled,	5-7km N	Heard	24	Burst		HMG	31-Oct, 11:55- 12:20
47km W of Luhansk)	5-7km N	Heard	1	Explosion	Undetermined	N/K	31-Oct, 12:04
S edge of Berezivske (non- government-	3-4km NNW	Heard	1	Explosion	Impact	N/K	31-Oct, 12:00
controlled, 53km NW of Luhansk)	3-4km NNW	Heard	4	Shot		IFV (BMP-1) cannon (73mm)	31-Oct, 12:07



## Map of Donetsk and Luhansk regions<sup>2</sup>

<sup>&</sup>lt;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).