SMM position	Location of event	Observation	Type of weapon/ammunition	Date/time
"DPR"-controlled		Heard 14 undetermined explosions	N/K	30 July, 22:19-22:51
Donetsk city centre	5-8km NW	Heard 2 bursts	Small arms	30 July, 22:51
		Heard 1 undetermined explosion		30 July, 22:53
	5-8km N	Heard 2 undetermined explosions		30 July, 22:58-23:05
	5-8km NW	Heard 4 undetermined explosions	N/K	30 July, 23:00-23:05
	5-8km N	Heard 2 undetermined explosions		30 July, 23:06-23:07
	5-8km NW	Heard 13 undetermined explosions		30 July, 23:18-23:39
		Heard 3 undetermined explosions		31 July, 00:23-00:28
		Heard 1 undetermined explosion		31 July, 02:18
		Heard 1 undetermined explosion		31 July, 03:04
		Heard 1 undetermined explosion		31 July, 03:43
		Heard 1 undetermined explosion		31 July, 04:02
		Heard 1 undetermined explosion		31 July, 05:18
		Heard 1 undetermined explosion		31 July, 05:22
Yasynuvata ("DPR"- controlled, 16km NE	3-4km WNW	Heard 3 bursts	HMG	31 July, 10:04
of Donetsk)	4-6km W	Heard 2 undetermined explosions	N/K	31 July, 10:18
of Donetak)	3-4km W	Heard 4 shots	Small arms	31 July, 10:27
	5-4KIII W	Heard 1 undetermined explosion		31 July, 10:38
	4-6km W	Heard 1 undetermined explosion	N/K	31 July, 10:53
	3-6km NNE	Heard 1 undetermined explosion		31 July, 11:01
	1-3km N	Heard 1 burst		31 July, 11:05
	1-3km NNW	Heard 7 bursts	Small arms	31 July, 11:14
	1-3km W	Heard 9 shots		31 July, 11:16
	2-4km NW	Heard 1 undetermined explosion	N/K	31 July, 11:18
	3-4km WSW	Heard 12 undetermined explosions		31 July, 12:06-12:10
	1-3km WSW	Heard 6 shots	Small arms	31 July, 12:10
	2-4km W	Heard 1 undetermined explosion	N/K	31 July, 12:11
		Heard 22 shots	- Small arms	31 July, 12:13-12:50
		Heard 24 bursts		
		Heard 1 undetermined explosion	N/K	
	2-3km W	Heard uncountable overlapping bursts and shots	Small arms	31 July, 12:53
	3-5km W	Heard 1 undetermined explosion	N/K	31 July, 13:12
		Heard 1 undetermined explosion		31 July, 13:56
	2-4km W	Heard 4 bursts	HMG	31 July, 14:13
SMM camera in Shyrokyne (20km E of Mariupol)	N/K N	Recorded 1 airburst	N/K	30 July, 19:01
		Recorded 1 tracer from E to W		30 July, 21:00
		Recorded 12 tracers from E to W Recorded 11 tracers from E to W		-
		Recorded 11 tracers from E to w Recorded 1 rocket-assisted projectile		30 July, 21:01
		from E to W		30 July, 21:02
		Recorded 1 rocket-assisted projectile from E to W		30 July, 21:04
		Recorded 1 rocket-assisted projectile from E to W		30 July, 21:07

## Table of ceasefire violations as of 31 July 2017<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.

2.3m SE of government- controlled, 16m NE of Maring201     NK ENE     Heard 1 undetermined explosion Recorded 1 maters from E to W     30 July, 21:14       2.3m SE of Labelytake government- controlled, 16m NE of Maring201     NK ENE     31 July, 00:07       2.3m SE of Labelytake government- controlled, 16m NE of Maring201     NK ENE     31 July, 00:115       3.3 July, 00:12     31 July, 00:12       2.3m SE of Labelytake government- controlled, 16m NE of Maring201     NK ENE     Heard 5 undetermined explosion NK     NK       9.3 July, 00:22     NK ENE     Heard 5 undetermined explosions     NK     31 July, 00:22       9.3 Skm NE orthole 16 NK     Heard 5 undetermined explosions     NK     31 July, 00:54:09:55       9.4 Maring201     NK ENE     Heard 1 barts     30 July, 20:33       9.5 Xm SE     Heard 6 shots     5 mal arms     30 July, 20:34       9.0 July, 20:34     30 July, 20:34     30 July, 20:34       9.0 July, 20:34     30 July, 20:34     30 July, 20:34       9.0 July, 20:42     30 July, 20:42     30 July, 20:42       14 Heard 1 undetermined explosion     30 July, 20:42     30 July, 20:42       14 Heard 2 undetermined explosion     30 July, 21:40     30 July, 21:41 </th <th></th> <th>1</th> <th>1</th> <th>1</th> <th>1</th>		1	1	1	1
Recorded I undetermined explosion Recorded 4 tracers from E to W     30 Jab, 21:45       Recorded 4 tracers from E to W     31 Jab, 00:07       Recorded 4 tracers from E to W     31 Jab, 00:07       Recorded 3 tracers from E to W     31 Jab, 00:14       Recorded 1 tracers from E to W     31 Jab, 00:16       Recorded 1 tracers from E to W     31 Jab, 00:16       Recorded 1 tracers from E to W     31 Jab, 00:16       Recorded 5 tracers from E to W     31 Jab, 00:16       Recorded 6 tracers from E to W     31 Jab, 00:16       Recorded 5 tracers from E to W     31 Jab, 00:16       Recorded 5 tracers from E to W     31 Jab, 00:22       Lebedynske (government- controlled, 35km NE of Donetsk)     Heard 5 undetermined explosion     N/K       Stittodark (government- controlled, 35km NE of Donetsk)     Heard 1 barst     HMG     30 Jab, 20:58-21:05       O Donetsk)     Heard 3 bards     30 Jab, 20:42     30 Jab, 20:37       Sortmotide, STRM NE of Donetsk)     Heard 3 undetermined explosion     30 Jab, 20:42       Heard 1 undetermined explosion     30 Jab, 20:42     30 Jab, 20:42       Heard 1 undetermined explosion     30 Jab, 20:42     30 Jab, 20:42       Sortm SE <t< td=""><td></td><td></td><td>Recorded 1 undetermined explosion</td><td></td><td>30 July, 21:13</td></t<>			Recorded 1 undetermined explosion		30 July, 21:13
Sam SE of Recorded Traces: from E to W Recorded Traces: from E to W     31 July, 00:15       2.3km SE of Lebelynke (government- controlled, 16km NE)     N/K ENE     Heard 5 undetermined explosions     N/K     31 July, 09:54:09:55       10 Mary, 01:7     Recorded Traces: from E to W     31 July, 09:54:09:55     31 July, 09:54:09:55       2.3km SE of Lebelynke (government- controlled, 16km NE)     Heard 5 undetermined explosions     N/K     31 July, 09:54:09:55       10 Mary, 02:07     Heard 1 barst     HMG     30 July, 20:58-21:05       of Donetsk)				-	
Provided A tracest from E to W     31 Jaby, 00:04       Recorded A tracest from E to W     31 Jaby, 00:14       Recorded A tracest from E to W     31 Jaby, 00:16       Recorded A tracest from E to W     31 Jaby, 01:16       Recorded A tracest from E to W     31 Jaby, 01:16       Recorded I tracest from E to W     31 Jaby, 01:16       Recorded I tracest from E to W     31 Jaby, 01:16       Recorded I tracest from E to W     31 Jaby, 01:16       Recorded I tracest from E to W     31 Jaby, 01:22       Lebadynske (govermment- controlled, Jokn NE of Donetsk)     Heard 5 undetermined explosion     NrK       Beard I tracest (goverment- controlled, JSran NE of Donetsk)     Heard 1 bust     30 Jaby, 20:58: 21:05       O Donetsk)     Heard 3 undetermined explosion     30 Jaby, 20:37       Heard 1 undetermined explosion     30 Jaby, 20:46     30 Jaby, 20:42       Heard 1 undetermined explosion     30 Jaby, 20:46     30 Jaby, 20:42       Heard 1 undetermined explosion     30 Jaby, 20:42     30 Jaby, 20:42       Heard 1 undetermined explosion     30 Jaby, 20:42     30 Jaby, 20:42       Heard 1 undetermined explosion     30 Jaby, 21:43     30 Jaby, 21:43       Heard 1 undetermined ex					
2.3km SE of Lebedynske (government controlled, JSkm NE of Donetsk)     NK ENE     Heard 3 Tracers from E to W Recorded 3 Tracers from E to W Recorded 1 Fracks-most set projectile from E to W     31 July, 01:15       2.3km SE of Lebedynske (government controlled, JBm NE of Donetsk)     NK K ENE     Heard 5 undetermined explosions     N/K     31 July, 00:54:09:55       7 Maringoli Donetsky     NK K NE     Heard 5 undetermined explosions     N/K     30 July, 20:58-21:05       8 With Controlled, JBm NE of Donetsky     Skm NE     Heard 5 undetermined explosions     N/K     30 July, 20:58-21:05       9 July, 20:58     Heard 1 burst     30 July, 20:58-21:05     30 July, 20:58-21:05       9 July, 20:58     Heard 1 burst     30 July, 20:58-21:05     30 July, 20:58-21:05       9 July, 20:31     Heard 3 undetermined explosion     30 July, 20:58-21:05     30 July, 20:58-21:05       9 July, 20:32     Heard 1 burst     30 July, 20:58-21:05     30 July, 20:58-21:05       9 July, 20:32     Heard 1 modetermined explosion     30 July, 20:58-21:05     30 July, 20:58-21:05       9 July, 20:32     Heard 3 undetermined explosion     30 July, 20:58-21:05     30 July, 20:58-21:05       9 July, 20:40     Heard 3 undetermined explosion     30 July, 20:58-21:05					
Recorded Tracers from E to W     I July, 01:15       Recorded Tracers from E to W     I July, 01:16       Recorded Tracers from E to W     I July, 01:16       Recorded Tracers from E to W     I July, 01:17       Recorded Tracers from E to W     I July, 01:22       Recorded Fracers from E to W     I July, 01:22       Recorded Stracers from E to W     I July, 01:22       Recorded Stracers from E to W     I July, 01:22       Recorded Stracers from E to W     I July, 01:22       Recorded Stracers from E to W     I July, 01:53       Recorded Stracers from E to W     I July, 01:52       Recorded Stracers from E to W     I July, 01:52       Recorded Stracers from E to W     I July, 00:54:09:55       Recorded Stracers from E to W     I July, 00:54:09:55       Recorded Stracers from E to W     I July, 00:23:16       Recorded Stracers from E to W     I July, 00:23:16       Stracers from E to W     I July, 00:23:16       I Heard S undetermined explosions     I July, 00:23:16       I Heard S undetermined explosions     I July, 00:23:10       I Heard I undetermined explosions     I July, 00:23:10       I Heard I undetermined explosions     I Jul					
Simple set of Lebed Stream From E to W     31 July, 01:16       Recorded 1 meters from E to W     31 July, 01:17       Recorded 1 rockst assisted projectile from E to W     31 July, 01:22       2.3km SE of Lebedynske (government controlled, 16km NE of Maringpo)     N/K ENE     Heard 5 undetermined explosions       9 Outnicity     N/K ENE     Heard 5 undetermined explosions     N/K     31 July, 09:54:09:55       9 Outnicity     Situdatsk (government controlled, 57km NE of Donetsk)     Heard 6 shots     30 July, 20:58-21:05       9 Outsided, 57km NE of Looker (Stream From Controlled, 57km NE of Donetsk)     Heard 7 shots     Small arms     30 July, 20:33       9 Outside, 57km SE     Heard 1 Undetrimined explosions     Heard 3 undetermined explosion     30 July, 20:42       9 Outside, 57km SE     Heard 1 undetermined explosion     30 July, 20:42     30 July, 20:42       9 Outside, 57km SE     Heard 1 undetermined explosion     30 July, 20:42     30 July, 20:42       9 Outside, 57km SE     Heard 1 undetermined explosion     30 July, 20:42     30 July, 20:42       9 Outside, 57km SE     Heard 1 undetermined explosion     30 July, 21:02     30 July, 21:02       9 Outside, 57km SE     Heard 1 undetermined explosion     30 July, 21:02<					
Recorded 3 macros from E to W Recorded 1 rocket-assisted projectile from E to W     31 July, 01:17       2.3 km SE of Lebedynske (government- controlled, 15km NE of Marinpol)     NK ENE     NK ENE     Becorded 6 tracers from E to W     31 July, 01:22       2.3 km SE of Lebedynske (government- controlled, 39km NE     NK ENE     Heard 5 undetermined explosions     N/K     31 July, 09:54:09:55       Marinpol     NK ENE     Heard 6 bursts     HMG     30 July, 20:58-21:05       orbinolas, O'Skm NE of Donetsk)     Heard 1 burst     30 July, 20:53     30 July, 20:53       Stitlodarsk (government- controlled, 57km NE of Donetsk)     Heard 1 burst     30 July, 20:33     30 July, 20:37       Of Donetsk)     Heard 1 undetrimined explosions     30 July, 20:42     30 July, 20:42       Heard 1 undetermined explosions     30 July, 20:42     30 July, 20:42       Heard 1 undetermined explosions     30 July, 20:42     30 July, 20:42       Heard 1 undetermined explosions     30 July, 20:42     30 July, 20:42       Heard 1 undetermined explosions     30 July, 21:03     30 July, 21:03       Heard 1 undetermined explosions     30 July, 21:03     30 July, 21:03       Heard 1 undetermined explosions     30 July, 21:26     30			Recorded 3 tracers from E to W		
2.3km SF of Lebedynske (govermment- outmoldel, Joka NE of Mariupol)     N/K ENE N/K ENE     Heard 5 undetermined explosions     N/K     31 July, 01:22       0.100000000000000000000000000000000000			Recorded 3 tracers from E to W		31 July, 01:16
Image: control of control of tracers from E to W     31 July. 01:22       2.3km SE of Lobulynsk: (government- controlled, 16km NE of Mariupo)     N/K ENE     Heard 5 undetermined explosions     N/K     31 July. 09:54:09:55       Mariupo)     Horitka: ("DPR"- controlled, 57km NE of Donetsk)     Skm NE     Heard 1 burst     30 July. 20:58:21:05       Svithodarsk     Heard 1 burst     30 July. 20:33     30 July. 20:33       (government- controlled, 57km NE of Donetsk)     3-5km SE     Heard 1 burst     30 July. 20:34       Fleard 4 undetermined explosion     Heard 1 undetermined explosion     30 July. 20:37       Heard 1 undetermined explosion     30 July. 20:42       Heard 1 undetermined explosion     30 July. 21:02       Heard 1 undetermined explosion     30 July. 21:07       Heard 1 undetermined explosion     30 July. 21:07       Heard 1 undete			Recorded 3 tracers from E to W		
2.3km SE of Lebedynske (goverment- controlled, 16km NE of Mariupol Horivka ("DPR"- Controlled, 39km NE of Donetsk)     N/K ENE N/K ENE     Recorded 6 tracers from E to W     31 July, 01:22       8 More Controlled, 16km NE of Donetsk)     N/K ENE     Heard 5 undetermined explosions     N/K     31 July, 09:54:09:55       9 Vib/Odarsk (government- controlled, 57km NE of Donetsk)     Skm NE     Heard 1 burst     30 July, 20:34     30 July, 20:34       9 Ub/y, 20:37     Heard 1 0 shots     Small arms     30 July, 20:34     30 July, 20:34       6 Donetsk)     Heard 1 undetermined explosions     Heard 1 0 shots     30 July, 20:34     30 July, 20:34       7 Heard 1 undetermined explosions     Heard 1 undetermined explosion     30 July, 20:42     30 July, 20:42       1 Heard 1 undetermined explosion     Heard 1 undetermined explosion     30 July, 20:42     30 July, 20:43       1 Heard 1 undetermined explosion     Heard 1 undetermined explosion     30 July, 20:42     30 July, 20:43       1 Heard 1 undetermined explosion     Heard 1 undetermined explosion     30 July, 21:02     30 July, 21:02       1 Heard 1 undetermined explosion     30 July, 21:02     30 July, 21:02     30 July, 21:02       1 Heard 1 undetermined explosion     30 July, 21:37 <t< td=""><td></td><td></td><td>Recorded 1 rocket-assisted projectile</td><td></td><td>31 July, 01:17</td></t<>			Recorded 1 rocket-assisted projectile		31 July, 01:17
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Heard 6 shots     Small arms     30 July, 20:34       of Donetsk)     3-5km SE     Heard 0 shots     Small arms     30 July, 20:37       of Donetsk)     Heard 7 shots     30 July, 20:37     30 July, 20:37       of Donetsk)     Heard 3 undetermined explosion     30 July, 20:37       Heard 1 undetermined explosion     30 July, 20:46       Heard 1 undetermined explosion     30 July, 21:00       Heard 1 undetermined explosion     30 July, 21:00       Heard 2 undetermined explosions     30 July, 21:01       Heard 1 undetermined explosions     30 July, 21:01       Heard 1 undetermined explosion     30 July, 21:02       Heard 1 undetermined explosion     30 July, 21:21       Heard 1 undetermined explosion     30 July, 21:26       Heard 1 undetermined explosion     30 July, 21:37       Heard 1 undetermined explosion     30 July, 21:37	controlled, 39km NE	5km NE		HMG	30 July, 20:58-21:05
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comments, 57km RE   Heard 7 shots   30 July, 20:39     of Donetsk)   Heard 3 undetermined explosions   30 July, 20:42     Heard 1 undetermined explosion   30 July, 20:42     Heard 1 undetermined explosion   30 July, 20:47     Heard 1 undetermined explosion   30 July, 21:00     Heard 1 undetermined explosions   30 July, 21:01     Heard 2 undetermined explosions   30 July, 21:01     Heard 2 undetermined explosion   30 July, 21:16     Heard 1 undetermined explosion   30 July, 21:21     Heard 1 undetermined explosion   30 July, 21:26     Heard 1 undetermined explosion   30 July, 21:26     Heard 1 undetermined explosion   30 July, 21:35     Heard 1 undetermined explosion   30 July, 21:35     Heard 1 undetermined explosion   30 July, 21:35	<sup>1</sup> C	S-SKM SE	Heard 10 shots	Sman arms	
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Softward Feard 1 undetermined explosion 30 July, 20:46   Heard 1 undetermined explosion 30 July, 20:47   Heard 1 undetermined explosion 30 July, 20:48   Heard 1 undetermined explosion 30 July, 20:48   Heard 1 undetermined explosion 30 July, 20:48   Heard 1 undetermined explosion 30 July, 21:00   Heard 1 undetermined explosion 30 July, 21:02   Heard 2 undetermined explosions 30 July, 21:03   Heard 2 undetermined explosions 30 July, 21:03   Heard 2 undetermined explosions 30 July, 21:10   Heard 2 undetermined explosions 30 July, 21:10   Heard 1 undetermined explosions 30 July, 21:10   Heard 2 undetermined explosion 30 July, 21:21   Beard 1 undetermined explosion 30 July, 21:26   Heard 1 undetermined explosion 30 July, 21:27   Heard 1 undetermined explosion 30 July, 21:27   Heard 1 undetermined explosion 30 July, 21:37   H	of Donetsk)				
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SMM camera in Zolote (government- controlled, 60km w of Luhansk)3.5-4km SSEHeard 1 undetermined explosion Heard 1 undetermined explosion Heard 1 undetermined explosion Heard 1 undetermined explosion Heard 2 undetermined explosions Heard 1 undetermined explosion Heard 2 undetermined explosionN/K30 July, 21:003-5km SEHeard 3 burstsSmall arms30 July, 21:213-5km SEHeard 1 undetermined explosion Heard 1 undetermined explosion30 July, 21:27Heard 1 undetermined explosion Heard 1 undetermined explosion30 July, 21:28Heard 1 undetermined explosion Heard 1 undetermined explosion30 July, 21:37Heard 1 undetermined explosion Heard 1 undetermined explosion30 July, 21:55F-7km SSWHeard 2 undetermined explosion Heard 1 undetermined explosion30 July, 21:55Meard 1 undetermined explosion Heard 1 undetermined explosion30 July, 21:57Heard 1 undetermined explosion Heard 1 undetermined explosion30 July, 22:05Heard 2 undetermined explosion30 July, 22:05Heard 2 undetermined explosion30 July, 22:14Zundetermined explosion30 July, 22:14WK29 July, 21:41Zundetermined explosions (assessed as outside the disengagement area) Recorded 1 projectile from NE to SW (assessed as outside the disengagement area)29 July, 23			1		
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SMM camera in Zolote (government- controlled, 60km W of Luhansk)   3.5-4km SE   Recorded 1 projectile from NE to SW (assessed as outside the disengagement area)   3.5-4km SE   Recorded 1 projectile from NE to SW (assessed as outside the disengagement area)   N/K   30 July, 21:07 (30 July, 21:10 (30 July, 21:11)     SMM camera in Zolote (government- controlled, 60km W of Luhansk)   3.5-4km SE   Recorded 1 projectile from NE to SW (assessed as outside the disengagement area)   N/K   30 July, 21:07 (30 July, 21:10)     SMM   Recorded 1 undetermined explosion   30 July, 21:10     MK   29 July, 21:21		5 71 0.0W		N/V	
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		disengagement area)		
	4-6km S	Recorded 1 undetermined explosion		29 July, 23:50
		(assessed as outside the		
		disengagement area)		
	4-5km SSE	Recorded 1 undetermined explosion		30 July, 00:00
		(assessed as outside the		
		disengagement area)		
	3-4km SE	Recorded 1 undetermined explosion		30 July, 00:21
		(assessed as inside the disengagement		
		area)		
Orikhove	0.8km SE	Heard 10 bursts (6 shots each)	HMG	31 July, 16:18
(government-				
controlled, 57km				
NW of Luhansk)				



## 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 since 27 September 2016 based on recommendations of security experts from participating States.)