Table of ceasefire violations as of 15 October 2018<sup>1</sup>

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
•	2-4km SE	Recorded	4	Projectile	NE to SW	N/K	15-Oct, 00:04
	2-4km SSE	Recorded	1	Explosion	Impact	N/K	15-Oct, 00:04
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	15-Oct, 00:06
	2-4km SE	Recorded	1	Projectile	NE to SW	N/K	15-Oct, 00:06
SMM camera in	2-4km SE	Recorded	2	Explosion	Undetermined	N/K	15-Oct, 00:07
Avdiivka	2-4km SE	Recorded	6	Projectile	NE to SW	N/K	15-Oct, 00:14
(government-	2-4km SE	Recorded	3	Projectile	NE to SW	N/K	15-Oct, 00:15
controlled, 17km N	3-5km SE	Recorded	1	Projectile	SW to NE	N/K	15-Oct, 00:31
of Donetsk)	2-4km SE	Recorded	1	Illumination flare	In vertical flight	N/K	15-Oct, 02:54
	2-4km SE	Recorded	1	Explosion	Airburst	N/K	15-Oct, 02:54
	2-4km SSE	Recorded	3	Projectile	NE to SW	N/K	15-Oct, 03:32
	2-4km SSE	Recorded	1	Projectile	NW to SE	N/K	15-Oct, 03:32
	2-4km SE	Recorded	11	Projectile	ENE to WSW	N/K	14-Oct, 18:21
	2-4km SE	Recorded	9	Projectile	WSW to ENE	N/K	14-Oct, 18:27
	2-4km SE	Recorded	1	Explosion	Impact	N/K	14-Oct, 18:36
	2-4km SSE	Recorded	1	Muzzle flash		N/K	14-Oct, 15:50
	2-4km SSE	Recorded	1	Burst	SSW to NNE	N/K	14-Oct, 18:53
	2-4km SSE	Recorded	2	Explosion	Impact	N/K	14-Oct, 18:53
	2-4km SSE	Recorded	1	Projectile	SSW to NNE	N/K	14-Oct, 18:53
	2-4km SSE	Recorded	3	Muzzle flash		N/K	14-Oct, 18:53
	2-4km SE	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 18:54
	2-4km SE	Recorded	8	Projectile	SW to NE	N/K	14-Oct, 19:00
	2-4km SE	Recorded	9	Projectile	SW to NE	N/K	14-Oct, 19:03
	2-4km SSE	Recorded	1	Projectile	NW to SE	N/K	14-Oct, 19:03
	2-4km SE	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 19:03
	2-4km SE	Recorded	3	Projectile	SW to NE	N/K	14-Oct, 19:04
	2-4km SE	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 19:04
	2-4km SE	Recorded	1	Projectile	NE to SW	N/K	14-Oct, 19:04
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 19:05
SMM camera in	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 19:18
Chermalyk	2-4km SSE	Recorded	3	Muzzle flash		N/K	14-Oct, 19:19
(government-	2-4km SSE	Recorded	2	Explosion	Undetermined	N/K	14-Oct, 19:19
controlled, 31km	2-4km SE	Recorded	3	Projectile	SW to NE	N/K	14-Oct, 19:22
NE of Mariupol)	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 19:22
•	2-4km SE	Recorded	3	Projectile	WNW to ESE	N/K	14-Oct, 19:27
	2-4km S	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 19:31
	2-4km SE	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 19:31
	2-4km SE	Recorded	1	Projectile	WSW to ENE	N/K	14-Oct, 19:31
	2-4km SE	Recorded	2	Muzzle flash	TT 1 4 1 1	N/K	14-Oct, 19:34
	2-4km SE	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 19:34
	2-4km SE	Recorded	1	Projectile	SW to NE	N/K	14-Oct, 19:34
	3-4km SSE	Recorded	1	Projectile	W to E	N/K	14-Oct, 20:03
	3-4km SSE	Recorded	9	Projectile	W to E	N/K	14-Oct, 20:04
	3-4km SSE	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 20:07
	3-4km SSE 3-4km SSE	Recorded Recorded	1	Projectile Projectile	E to W W to E	N/K N/K	14-Oct, 20:09 14-Oct, 20:11
	3-4km SSE	Recorded	2	Explosion	Impact	N/K	14-Oct, 20:11 14-Oct, 20:11
	3-4km SSE	Recorded	1	Projectile	W to E	N/K	14-Oct, 20:11 14-Oct, 20:12
	3-4km SE	Recorded	2	Muzzle flash	WIOE	N/K	14-Oct, 20:12
	3-4km S	Recorded	2	Projectile Projectile	W to E	N/K	14-Oct, 20:17
	3-4km S	Recorded	2	Muzzle flash	11 W.L	N/K	14-Oct, 20:17 14-Oct, 20:18
	3-4km S	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 20:18
	S IIIAF-C	recorded	1	Pyhiosinii	Onuciennineu	14/15	14-001, 20.10

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<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.

	3-4km S	Recorded	3	Projectile	W to E	N/K	14-Oct, 20:18
	3-4km S	Recorded	2	Muzzle flash	11 10 12	N/K	14-Oct, 20:20
	3-4km S	Recorded	1	Projectile	W to E	N/K	14-Oct, 20:21
	3-4km S	Recorded	1	Muzzle flash	11 10 2	N/K	14-Oct, 20:21
	3-4km SSE	Recorded	2	Explosion	Undetermined	N/K	14-Oct, 20:23
	3-4km S	Recorded	1	Projectile	W to E	N/K	14-Oct, 20:28
	3-4km SSE	Recorded	6	Burst	ENE to WSW	N/K	14-Oct, 20:34
	3-4km SSE	Recorded	4	Burst	ENE to WSW	N/K	14-Oct, 20:35
	3-4km SSE	Recorded	1	Projectile	E to W	N/K	14-Oct, 20:44
	3-4km SSE	Recorded	1	Illumination flare	In vertical flight	N/K	14-Oct, 20:47
	3-4km SSE	Recorded	17	Projectile	E to W	N/K	14-Oct, 21:02
	3-4km SSE	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 21:02
	3-4km SSE	Recorded	9	Projectile	E to W	N/K	14-Oct, 21:03
	3-4km SSE	Recorded	10	Projectile	E to W	N/K	14-Oct, 21:04
	3-4km SSE	Recorded	2	Projectile	W to E	N/K	14-Oct, 21:04
	3-4km SSE	Recorded	8	Projectile	W to E	N/K	14-Oct, 21:05
	3-4km SSE	Recorded	4	Projectile	E to W	N/K	14-Oct, 21:05
	3-4km SSE	Recorded	4	Projectile	W to E	N/K	14-Oct, 21:06
	3-4km SSE	Recorded	10	Projectile	E to W	N/K	14-Oct, 21:07
	3-4km SSE	Recorded	6	Projectile	W to E	N/K	14-Oct, 21:07
	3-4km SSE	Recorded	7	Projectile	W to E	N/K	14-Oct, 21:08
	3-4km SSE	Recorded	7	Projectile	E to W	N/K	14-Oct, 21:08
	3-4km SSE	Recorded	4	Projectile	W to E	N/K	14-Oct, 21:09
	3-4km SSE	Recorded	5	Projectile	E to W	N/K	14-Oct, 21:09
	3-4km SSE	Recorded	2	Projectile	WSW to ENE	N/K	14-Oct, 21:11
	3-4km SSE	Recorded	2	Projectile	ENE to WSW	N/K	14-Oct, 21:11
	3-4km SSE	Recorded	10	Projectile	ENE to WSW	N/K	14-Oct, 21:13
-	3-4km SSE	Recorded	3	Projectile	ENE to WSW	N/K	14-Oct, 21:14
	3-4km SSE	Recorded	4	Projectile	WSW to ENE	N/K	14-Oct, 21:14
	3-4km S	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 21:14
-	3-4km SSE	Recorded	7 2	Projectile	ENE to WSW ENE to WSW	N/K N/K	14-Oct, 21:15
	3-4km SSE 3-4km SSE	Recorded Recorded	1	Projectile Projectile	WSW to ENE	N/K	14-Oct, 21:17 14-Oct, 21:23
	3-4km SSE	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 21:36
	3-4km SSE	Recorded	1	Projectile	WSW to ENE	N/K	14-Oct, 21:30 14-Oct, 23:39
	3-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	15-Oct, 00:24
	3-4km SSE	Recorded	2	Projectile	WSW to ENE	N/K	15-Oct, 00:24
	3-4km SSE	Recorded	2	Projectile	WSW to ENE	N/K	15-Oct, 01:07
	3-4km SSE	Recorded	2	Burst	WSW to ENE	N/K	15-Oct, 01:18
	3-4km SSE	Recorded	9	Muzzle flash	WE WE LETTE	N/K	15-Oct, 02:49
	3-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	15-Oct, 02:49
	3-4km SSE	Recorded	7	Projectile	ENE to WSW	N/K	15-Oct, 03:41
	3-4km S	Recorded	2	Projectile	W to E	N/K	15-Oct, 03:43
	1-2km SSW	Recorded	1	Projectile	W to E	N/K	14-Oct, 18:54
	1-2km SSW	Recorded	1	Projectile	W to E	N/K	14-Oct, 19:16
	0.5-1km S	Recorded	2	Projectile	NE to SW	N/K	14-Oct, 19:20
	2-4km SSW	Recorded	2	Projectile	W to E	N/K	14-Oct, 19:43
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 20:11
[	2-4km SSW	Recorded	2	Explosion	Undetermined	N/K	14-Oct, 20:19
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 20:28
	2-4km SSW	Recorded	1	Projectile	NNW to SSE	N/K	14-Oct, 20:32
SMM camera at	2-4km SSW	Recorded	1	Projectile	NNW to SSE	N/K	14-Oct, 21:09
Donetsk Filtration	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 23:13
Station (15km N of	2-4km S	Recorded	1	Projectile	SW to NE	N/K	15-Oct, 00:04
Donetsk)	2-4km SSW	Recorded	3	Explosion	Undetermined	N/K	15-Oct, 00:04
	2-4km S	Recorded	1	Projectile	N to S	N/K	15-Oct, 00:04
	2-4km SSW	Recorded	3	Explosion	Undetermined	N/K	15-Oct, 00:06
	2-4km SSW	Recorded	5	Explosion	Undetermined	N/K	15-Oct, 00:07
	2-4km SSW	Recorded	4	Projectile	NNW to SSE	N/K	15-Oct, 00:14
	2-4km SSW	Recorded	1	Projectile	NNE to SSW	N/K	15-Oct, 00:14
	2-4km SSW	Recorded	1	Projectile	W to E	N/K	15-Oct, 00:22
	a 11 a						
	2-4km SSW 2-4km SSW	Recorded Recorded	2	Explosion Explosion	Undetermined Undetermined	N/K N/K	15-Oct, 00:38 15-Oct, 00:39

1	1	1	1 .		1	1 .	1
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	15-Oct, 00:43
	2-4km SSW	Recorded	1	Projectile	NNW to SSE	N/K	15-Oct, 00:44
	2-4km SSW	Recorded	1	Projectile	W to E	N/K	15-Oct, 01:08
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	15-Oct, 01:39
	2-4km SSW	Recorded	1	Projectile	NNW to SSE	N/K	15-Oct, 02:07
	2-4km SSW	Recorded	1	Projectile	NNW to SSE	N/K	15-Oct, 02:54
	2-4km SW	Recorded	1	Explosion	Undetermined	N/K	15-Oct, 02:54
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	15-Oct, 05:28
	2-4km SSE	Recorded	2	Projectile	W to E	N/K	15-Oct, 05:58
	2-4km SSE	Recorded	6	Projectile	NNW to SSE	N/K	15-Oct, 06:06
	2-4km SSE	Recorded	2	Projectile	W to E	N/K	15-Oct, 06:10
	2-4km SSE	Recorded	4	Projectile	W to E	N/K	15-Oct, 06:12
	2-4km SSE	Recorded	3	Projectile	NNW to SSE	N/K	15-Oct, 06:32
	2-4km ESE	Recorded	1	Projectile	S to N	N/K	14-Oct, 18:36
	2-4km ESE	Recorded	1	Projectile	S to N	N/K	14-Oct, 18:37
	2-4km ESE	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 18:37
	2-4km ESE	Recorded	1	Projectile	S to N	N/K	14-Oct, 18:38
	2-4km ESE 2-4km ESE	Recorded	3	Projectile	S to N	N/K	14-Oct, 18:39
	2-4km ESE 2-4km ESE	Recorded	10	Projectile	S to N	N/K	14-Oct, 18:40
	2-4km E	Recorded	2	Projectile	In vertical flight	N/K	14-Oct, 18:40
	2-4km E	Recorded		Projectile	N to S	N/K	14-Oct, 18:40
	2-4km ESE	Recorded	24	Projectile	S to N	N/K	14-Oct, 18:41
	2-4km ESE	Recorded	24	Projectile	SW to NE	N/K	14-Oct, 18:42
	2-4km ESE	Recorded	3	Projectile	SW to NE	N/K	14-Oct, 18:43
	2-4km ESE	Recorded	5	Projectile	SW to NE	N/K	14-Oct, 18:44
	2-4km ESE	Recorded	5	Projectile	SW to NE	N/K	14-Oct, 18:45
	2-4km ESE	Recorded	7	Projectile	SW to NE	N/K	14-Oct, 18:46
	2-4km ESE	Recorded	6	Projectile	SW to NE	N/K	14-Oct, 18:47
	2-4km ESE	Recorded	9	Projectile	SW to NE	N/K	14-Oct, 18:48
	2-4km ESE	Recorded	15	Projectile	SW to NE	N/K	14-Oct, 18:49
	2-4km ESE	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 18:49
	2-4km ESE	Recorded	10	Projectile	SW to NE	N/K	14-Oct, 18:50
	2-4km ESE	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 18:50
	2-4km ESE	Recorded	10	Projectile	SW to NE	N/K	14-Oct, 18:51
	2-4km ESE	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 18:51
	2-4km E	Recorded	1	Burst	In vertical flight	N/K	14-Oct, 18:51
SMM camera 1.5km	2-4km ESE	Recorded	2	Projectile	SW to NE	N/K	14-Oct, 18:52
NE of Hnutove	2-4km E	Recorded	9	Projectile	S to N	N/K	14-Oct, 18:53
(government-	2-4km ENE	Recorded	3	Explosion	Undetermined	N/K	14-Oct, 18:53
controlled, 20km	2-4km ENE	Recorded	1	Projectile	N to S	N/K	14-Oct, 18:54
NE of Mariupol)	2-4km ENE	Recorded		, ,	Undetermined	N/K	14-Oct, 18:54
1 /	2-4km ENE	Recorded	12	Projectile	N to S	N/K	14-Oct, 19:00
	2-4km ENE	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 19:01
	2-4km ENE	Recorded	8	Projectile	S to N	N/K	14-Oct, 19:01
	2-4km E	Recorded	2	Projectile	N to S	N/K	14-Oct, 19:12
	2-4km ESE	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 19:13
	2-4km ENE	Recorded	1	Explosion	Airburst	N/K	14-Oct, 19:14
			3	-	NW to SE	N/K N/K	
	2-4km E	Recorded	3	Projectile	IN W IO SE	1N/ IX	14-Oct, 19:14
	3-5km ESE	Recorded	2	Illumination flare	In vertical flight	N/K	14-Oct, 19:19
	2-4km E	Recorded	2	Projectile	NW to SE	N/K	14-Oct, 19:19
	2-4km E	Recorded	3	Burst	WNW to ESE	N/K	14-Oct, 20:01
	2-4km E	Recorded	12	Projectile	WNW to ESE	N/K	14-Oct, 20:03
	2-4km E	Recorded	13	Projectile	SSW to NNE	N/K	14-Oct, 20:03
	2-4km E	Recorded	18	Projectile	SW to NE	N/K	14-Oct, 20:04
	2-4km ENE	Recorded	6	Projectile	S to N	N/K	14-Oct, 20:06
	2-4km ENE	Recorded	1	Projectile	NE to SW	N/K	14-Oct, 20:06
	2-4km E	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 20:07
	2-4km E	Recorded	5	Projectile	S to N	N/K	14-Oct, 20:07
	2-4km E	Recorded	5	Muzzle flash	5 10 11	N/K	14-Oct, 20:07
	2-4km E	Recorded	1	Projectile	N to S	N/K N/K	
			2				14-Oct, 20:09
	2-4km ENE	Recorded	2	Explosion	Undetermined	N/K	14-Oct, 20:11
	2-4km ESE	Recorded	1	Projectile	SW to NE	N/K	14-Oct, 20:18
	2-4km E	Recorded	2	Explosion	Undetermined	N/K	14-Oct, 20:25

2-4km E	Recorded	1	Projectile	S to N	N/K	14-Oct, 20:30
2-4km E	Recorded	5	Projectile	S to N	N/K	14-Oct, 20:31
2-4km E	Recorded	2	Projectile	S to N	N/K	14-Oct, 20:32
2-4km E	Recorded	1	Projectile	NE to SW	N/K	14-Oct, 20:32
2-4km E	Recorded	1	Muzzle flash		N/K	14-Oct, 20:32
2-4km E	Recorded	4	Projectile	N to S	N/K	14-Oct, 20:34
2-4km E	Recorded	2	Explosion	Undetermined	N/K	14-Oct, 20:34
2-4km ESE	Recorded	2	Projectile	N to S	N/K	14-Oct, 20:44
2-4km ESE	Recorded	1	Projectile	S to N	N/K	14-Oct, 20:53
2-4km ESE	Recorded	1	Projectile	S to N	N/K	14-Oct, 20:54
2-4km ESE	Recorded	2	Projectile	S to N	N/K	14-Oct, 20:55
2-4km ESE	Recorded	2	Explosion	Undetermined	N/K	14-Oct, 20:55
2-4km ESE	Recorded	3	Projectile	SW to NE	N/K	14-Oct, 20:56
2-4km ESE	Recorded	2	Projectile	SW to NE	N/K	14-Oct, 20:59
2-4km ESE	Recorded	2	Projectile	NW to SE	N/K	14-Oct, 21:00
2-4km ESE	Recorded	3	Projectile	SW to NE	N/K	14-Oct, 21:03
2-4km ESE	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 21:03
2-4km ESE	Recorded	4	Projectile	SW to NE	N/K	14-Oct, 21:04
2-4km ESE	Recorded	4	Muzzle flash	CW/4- NE	N/K	14-Oct, 21:04
2-4km E 2-4km E	Recorded	6	Projectile Projectile	SW to NE SSW to NNE	N/K N/K	14-Oct, 21:05 14-Oct, 22:11
	Recorded				N/K	
2-4km E 2-4km E	Recorded	2	Projectile Projectile	SSW to NNE SW to NE	N/K	14-Oct, 21:12
2-4km E	Recorded Recorded	2	Projectile	SSW to NNE	N/K	14-Oct, 21:14 14-Oct, 21:15
2-4km E	Recorded	2	Projectile	NW to SE	N/K	14-Oct, 21:15
2-4km E	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 21:15
2-4km E	Recorded	1	Projectile	NNW to SSE	N/K	14-Oct, 21:16
2-4km E	Recorded	1	Projectile	SSW to NNE	N/K	14-Oct, 21:16
2-4km E	Recorded	2	Explosion	Undetermined	N/K	14-Oct, 21:16
2-4km E	Recorded	1	Projectile	SSW to NNE	N/K	14-Oct, 21:17
2-4km E	Recorded	1	Muzzle flash		N/K	14-Oct, 21:17
2-4km E	Recorded	5	Projectile	SW to NE	N/K	14-Oct, 21:18
2-4km E	Recorded	3	Projectile	SW to NE	N/K	14-Oct, 21:19
2-4km E	Recorded	4	Projectile	NNW to SSE	N/K	14-Oct, 21:19
2-4km E	Recorded	9	Projectile	NW to SE	N/K	14-Oct, 21:20
2-4km E	Recorded	5	Projectile	S to N	N/K	14-Oct, 21:21
2-4km E	Recorded	5	Projectile	N to S	N/K	14-Oct, 21:21
2-4km E	Recorded	5	Projectile	WSW to ENE	N/K	14-Oct, 21:22
2-4km E	Recorded	1	Projectile	WSW to ENE	N/K	14-Oct, 21:24
2-4km E	Recorded	1	Projectile	WSW to ENE	N/K	14-Oct, 21:25
2-4km E	Recorded	7	Projectile	WSW to ENE	N/K	14-Oct, 21:37
2-4km ESE	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 21:37
2-4km ESE	Recorded	2	Projectile	WSW to ENE	N/K	14-Oct, 21:38
2-4km ESE	Recorded	5	Projectile	WSW to ENE	N/K	14-Oct, 21:40
2-4km ESE	Recorded	5	Projectile	SSW to NNE	N/K	14-Oct, 21:57
2-4km E	Recorded	4	Projectile	NW to SE	N/K	14-Oct, 21:57
2-4km E	Recorded	1	Projectile	NNW to SSE	N/K	14-Oct, 21:58
2-4km ENE	Recorded	1	Projectile Projectile	SSW to NNE	N/K	14-Oct, 21:58
2-4km E 2-4km ESE	Recorded	5	Projectile Muzzle flash	NNW to SSE	N/K N/K	14-Oct, 21:59 14-Oct, 21:59
2-4km ESE	Recorded Recorded	6	Projectile	S to N	N/K N/K	
2-4km E	Recorded	13	Projectile	NNW to SSE	N/K N/K	14-Oct, 22:26 14-Oct, 22:27
2-4km E	Recorded	13	Projectile	NNW to SSE	N/K	14-Oct, 22:28
2-4km E	Recorded	2	Explosion	Undetermined	N/K	14-Oct, 22:28
2-4km E	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 22:57
2-4km ENE	Recorded	1	Projectile	NNW to SSE	N/K	14-Oct, 23:03
		20	Projectile	S to N	N/K	14-Oct, 23:07
2-4KM E	Recorded		- ,			· · · · · · · · · · · · · · · · · · ·
2-4km E 2-4km E	Recorded Recorded	12	Projectile	N to S	N/K	14-Oct, 23:08
2-4km E 2-4km E 2-4km E			Projectile Projectile	N to S SW to NE	N/K N/K	14-Oct, 23:08 14-Oct, 23:15
2-4km E	Recorded	12				
2-4km E 2-4km E	Recorded Recorded	12 3	Projectile	SW to NE	N/K	14-Oct, 23:15
2-4km E 2-4km E 2-4km E	Recorded Recorded Recorded	12 3 4	Projectile Projectile	SW to NE NNW to SSE	N/K N/K	14-Oct, 23:15 14-Oct, 23:16
2-4km E 2-4km E 2-4km E 2-4km E	Recorded Recorded Recorded Recorded	12 3 4 3	Projectile Projectile Projectile	SW to NE NNW to SSE SSW to NNE	N/K N/K N/K	14-Oct, 23:15 14-Oct, 23:16 14-Oct, 23:16

	1.44	1			l	1	1440 2020
	2-4km ENE	Recorded	1	Projectile	NW to SE	N/K	14-Oct, 23:20
	2-4km ENE	Recorded	2	Projectile	NNW to SSE	N/K	14-Oct, 23:21
	2-4km E	Recorded	14	Projectile	S to N	N/K	14-Oct, 23:35
	2-4km E	Recorded	3	Projectile	N to S	N/K	15-Oct, 00:24
	2-4km E	Recorded	24	Projectile	S to N	N/K	15-Oct, 00:40
	2-4km ENE	Recorded	5	Projectile	S to N	N/K	15-Oct, 01:07
	2-4km E	Recorded	8	Projectile	N to S	N/K	15-Oct, 01:10
	2-4km E	Recorded	22	Projectile	S to N	N/K	15-Oct, 01:18
	2-4km ESE	Recorded	1	Projectile	S to N	N/K	15-Oct, 01:42
	2-4km ENE	Recorded	4	Projectile	WSW to ENE	N/K	15-Oct, 01:56
	2-4km ENE	Recorded	4	Projectile	N to S	N/K	15-Oct, 01:58
	2-4km E	Recorded	3	Projectile	N to S	N/K	15-Oct, 02:27
	2-4km ENE	Recorded	2	Projectile	N to S	N/K	15-Oct, 02:58
	2-4km ENE	Recorded	1	Projectile	N to S	N/K	15-Oct, 02:36
			_				
	2-4km E	Recorded	1	Projectile	S to N	N/K	15-Oct, 03:37
	2-4km E	Recorded	14	Projectile	N to S	N/K	15-Oct, 03:37
	2-4km E	Recorded	4	Projectile	S to N	N/K	15-Oct, 03:39
	2-4km E	Recorded	1	Projectile	S to N	N/K	15-Oct, 03:40
	2-4km E	Recorded	7	Projectile	S to N	N/K	15-Oct, 03:41
	2-4km	Recorded	6	Projectile	N to S	N/K	15-Oct, 03:41
	2-4km ESE	Recorded	1	Projectile	N to S	N/K	15-Oct, 04:06
	2-4km ESE	Recorded	2	Projectile	S to N	N/K	15-Oct, 04:18
	2-4km ENE	Recorded	1	Projectile	N to S	N/K	15-Oct, 04:27
	2-4km ENE	Recorded	1	Projectile	N to S	N/K	15-Oct, 04:41
	2-4km E	Recorded	7	Projectile	NW to SE	N/K	15-Oct, 05:09
	2-4km E	Recorded	18	Projectile	SW to NE	N/K	15-Oct, 05:13
	2-4km E	Recorded	1	Explosion	Undetermined	N/K	15-Oct, 05:17
	2-4km E	Recorded	2	Projectile	SW to NE	N/K	15-Oct, 05:17
	2-4km ENE	Recorded	1	Projectile	N to S	N/K	15-Oct, 05:18
	2-4km ENE	Recorded	2	Projectile	N to S	N/K	15-Oct, 05:19
	2-4km ENE	Recorded	4	Projectile	N to S	N/K	
SMM camera in	3-5km ESE	Recorded	1		Undetermined	N/K N/K	15-Oct, 05:28 14-Oct, 21:32
Hranitne				Explosion			
(government-	3-5km ENE	Recorded	1	Projectile	S to N	N/K	14-Oct, 23:41
controlled, 60km S	3-5km E	Recorded	1	Projectile	In vertical flight	N/K	15-Oct, 01:01
of Donetsk)	1-2km E	Recorded	1	Explosion	Undetermined	N/K	15-Oct, 05:28
SMM camera in	0.5-1km SSW	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 22:22
Kriakivka	0.3-1KIII 33 W	Recorded	1	Explosion	Undetermined	11/13	14-001, 22.22
(government-							
controlled, 38km	4-5km SSW	Recorded	2	Projectile	W to E	N/K	14-Oct, 23:21
NW of Luhansk)							
TVV OI Lulialisk)	2-4km ENE	Recorded	1	Explosion	Impact	N/K	14-Oct, 18:22
	2-4km NE	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 18:36
		Recorded	2	Muzzle flash	Undetermined	N/K	· ·
	2-4km NE		+		NIVI OF		14-Oct, 18:51
	2-4km NE	Recorded	3	Projectile	NW to SE	N/K	14-Oct, 18:51
	2-4km NE 2-4km ENE	Recorded	3	Projectile	NW to SE	N/K	14-Oct, 19:03
i	1 7-4km HNH	I Pacordad	1 2	Projectile	NW to SE	N/K	14-Oct, 19:16
		Recorded					
	2-4km NE	Recorded	1	Projectile	SE to NW	N/K	14-Oct, 19:18
	2-4km NE 2-4km NE	Recorded Recorded	1	Projectile Explosion	SE to NW Impact	N/K N/K	14-Oct, 19:18 14-Oct, 19:18
	2-4km NE 2-4km NE 2-4km NE	Recorded Recorded Recorded	1 1 1	Projectile Explosion Explosion	SE to NW Impact Undetermined	N/K N/K N/K	14-Oct, 19:18 14-Oct, 19:18 14-Oct, 19:20
SMM camera E of	2-4km NE 2-4km NE 2-4km NE 2-4km NE	Recorded Recorded Recorded Recorded	1 1 1 5	Projectile Explosion Explosion Projectile	SE to NW Impact	N/K N/K	14-Oct, 19:18 14-Oct, 19:18 14-Oct, 19:20 14-Oct, 19:20
SMM camera E of Lomakyne	2-4km NE 2-4km NE 2-4km NE	Recorded Recorded Recorded	1 1 1	Projectile Explosion Explosion	SE to NW Impact Undetermined	N/K N/K N/K N/K N/K	14-Oct, 19:18 14-Oct, 19:18 14-Oct, 19:20
Lomakyne (government-	2-4km NE 2-4km NE 2-4km NE 2-4km NE	Recorded Recorded Recorded Recorded	1 1 1 5	Projectile Explosion Explosion Projectile	SE to NW Impact Undetermined SE to NW	N/K N/K N/K N/K	14-Oct, 19:18 14-Oct, 19:18 14-Oct, 19:20 14-Oct, 19:20
Lomakyne	2-4km NE 2-4km NE 2-4km NE 2-4km NE 2-4km NE	Recorded Recorded Recorded Recorded Recorded	1 1 1 5 2	Projectile Explosion Explosion Projectile Projectile	SE to NW Impact Undetermined SE to NW NW to SE	N/K N/K N/K N/K N/K	14-Oct, 19:18 14-Oct, 19:18 14-Oct, 19:20 14-Oct, 19:20 14-Oct, 19:20
Lomakyne (government-	2-4km NE 2-4km NE 2-4km NE 2-4km NE 2-4km NE 2-4km NE	Recorded Recorded Recorded Recorded Recorded Recorded	1 1 1 5 2	Projectile Explosion Explosion Projectile Projectile Explosion	SE to NW Impact Undetermined SE to NW NW to SE Impact	N/K N/K N/K N/K N/K N/K	14-Oct, 19:18 14-Oct, 19:18 14-Oct, 19:20 14-Oct, 19:20 14-Oct, 19:20 14-Oct, 19:31
Lomakyne (government- controlled, 15km	2-4km NE 2-4km NE 2-4km NE 2-4km NE 2-4km NE 2-4km NE 2-4km NE 2-4km ENE	Recorded Recorded Recorded Recorded Recorded Recorded Recorded Recorded	1 1 1 5 2 1 1 6	Projectile Explosion Explosion Projectile Projectile Explosion Projectile Projectile	SE to NW Impact Undetermined SE to NW NW to SE Impact NW to SE NW to SE	N/K	14-Oct, 19:18 14-Oct, 19:18 14-Oct, 19:20 14-Oct, 19:20 14-Oct, 19:20 14-Oct, 19:31 14-Oct, 19:31 14-Oct, 19:43
Lomakyne (government- controlled, 15km	2-4km NE 2-4km ENE 2-4km ENE	Recorded	1 1 5 2 1 1 6 3	Projectile Explosion Explosion Projectile Projectile Explosion Projectile Projectile Projectile Projectile	SE to NW Impact Undetermined SE to NW NW to SE Impact NW to SE NW to SE SE to NW	N/K N/K N/K N/K N/K N/K N/K N/K	14-Oct, 19:18 14-Oct, 19:18 14-Oct, 19:20 14-Oct, 19:20 14-Oct, 19:20 14-Oct, 19:31 14-Oct, 19:31 14-Oct, 19:43 14-Oct, 19:43
Lomakyne (government- controlled, 15km	2-4km NE 2-4km ENE 2-4km ENE 2-4km ENE	Recorded	1 1 5 2 1 1 6 3	Projectile Explosion Explosion Projectile Projectile Explosion Projectile Projectile Projectile Projectile Projectile	SE to NW Impact Undetermined SE to NW NW to SE Impact NW to SE NW to SE SE to NW SE to NW	N/K N/K N/K N/K N/K N/K N/K N/K N/K	14-Oct, 19:18 14-Oct, 19:18 14-Oct, 19:20 14-Oct, 19:20 14-Oct, 19:20 14-Oct, 19:31 14-Oct, 19:31 14-Oct, 19:43 14-Oct, 19:43 14-Oct, 19:43
Lomakyne (government- controlled, 15km	2-4km NE 2-4km ENE 2-4km ENE 2-4km ENE 2-4km ENE	Recorded	1 1 1 5 2 1 1 6 3 2 2	Projectile Explosion Explosion Projectile Projectile Explosion Projectile Projectile Projectile Projectile Projectile Projectile Projectile	SE to NW Impact Undetermined SE to NW NW to SE Impact NW to SE NW to SE SE to NW SE to NW SE to NW NW to SE	N/K	14-Oct, 19:18 14-Oct, 19:18 14-Oct, 19:20 14-Oct, 19:20 14-Oct, 19:20 14-Oct, 19:31 14-Oct, 19:31 14-Oct, 19:43 14-Oct, 19:43 14-Oct, 19:44 14-Oct, 19:44
Lomakyne (government- controlled, 15km	2-4km NE 2-4km ENE 2-4km ENE 2-4km ENE 2-4km ENE 2-4km ENE 2-4km ENE	Recorded	1 1 1 5 2 1 1 6 3 2 2 2 3	Projectile Explosion Explosion Projectile Projectile Explosion Projectile Projectile Projectile Projectile Projectile Projectile Projectile Projectile	SE to NW Impact Undetermined SE to NW NW to SE Impact NW to SE NW to SE SE to NW SE to NW SE to NW W to SE W to SE SE to NW	N/K	14-Oct, 19:18 14-Oct, 19:18 14-Oct, 19:20 14-Oct, 19:20 14-Oct, 19:20 14-Oct, 19:31 14-Oct, 19:31 14-Oct, 19:43 14-Oct, 19:43 14-Oct, 19:44 14-Oct, 19:44 14-Oct, 19:44
Lomakyne (government- controlled, 15km	2-4km NE 2-4km ENE 2-4km NE	Recorded	1 1 5 2 1 1 6 3 2 2 2 3	Projectile Explosion Explosion Projectile Projectile Explosion Projectile Projectile Projectile Projectile Projectile Projectile Projectile Explosion	SE to NW Impact Undetermined SE to NW NW to SE Impact NW to SE NW to SE SE to NW SE to NW SE to NW W to SE W to SE Undetermined SE	N/K	14-Oct, 19:18 14-Oct, 19:18 14-Oct, 19:20 14-Oct, 19:20 14-Oct, 19:20 14-Oct, 19:31 14-Oct, 19:31 14-Oct, 19:43 14-Oct, 19:43 14-Oct, 19:44 14-Oct, 19:44 14-Oct, 20:18
Lomakyne (government- controlled, 15km	2-4km NE 2-4km ENE 2-4km ENE 2-4km ENE 2-4km ENE 2-4km ENE 2-4km ENE 2-4km NE 2-4km NE 2-4km NE	Recorded	1 1 1 5 2 1 1 6 3 2 2 2 3 1 1	Projectile Explosion Explosion Projectile Projectile Explosion Projectile	SE to NW Impact Undetermined SE to NW NW to SE Impact NW to SE NW to SE SE to NW SE to NW SE to NW W to SE W to E Outgoing W to E	N/K	14-Oct, 19:18 14-Oct, 19:18 14-Oct, 19:20 14-Oct, 19:20 14-Oct, 19:20 14-Oct, 19:31 14-Oct, 19:31 14-Oct, 19:43 14-Oct, 19:43 14-Oct, 19:44 14-Oct, 19:44 14-Oct, 20:18 14-Oct, 20:18
Lomakyne (government- controlled, 15km	2-4km NE 2-4km ENE 2-4km ENE 2-4km ENE 2-4km ENE 2-4km ENE 2-4km ENE 2-4km NE 2-4km NE 2-4km NE 2-4km NE 2-4km NE	Recorded	1 1 5 2 1 1 6 3 2 2 2 3	Projectile Explosion Explosion Projectile Projectile Explosion Projectile Explosion Projectile Projectile Projectile Projectile Projectile Projectile Projectile Projectile Explosion Projectile Projectile	SE to NW Impact Undetermined SE to NW NW to SE Impact NW to SE NW to SE SE to NW SE to NW SE to NW OUT OF THE TOTAL	N/K	14-Oct, 19:18 14-Oct, 19:18 14-Oct, 19:20 14-Oct, 19:20 14-Oct, 19:20 14-Oct, 19:31 14-Oct, 19:31 14-Oct, 19:43 14-Oct, 19:43 14-Oct, 19:44 14-Oct, 19:44 14-Oct, 20:18 14-Oct, 20:21 14-Oct, 20:32
Lomakyne (government- controlled, 15km	2-4km NE 2-4km ENE 2-4km ENE 2-4km ENE 2-4km ENE 2-4km ENE 2-4km ENE 2-4km NE 2-4km NE 2-4km NE	Recorded	1 1 1 5 2 1 1 6 3 2 2 2 3 1 1	Projectile Explosion Explosion Projectile Projectile Explosion Projectile	SE to NW Impact Undetermined SE to NW NW to SE Impact NW to SE NW to SE SE to NW SE to NW SE to NW W to SE W to E Outgoing W to E	N/K	14-Oct, 19:18 14-Oct, 19:18 14-Oct, 19:20 14-Oct, 19:20 14-Oct, 19:20 14-Oct, 19:31 14-Oct, 19:31 14-Oct, 19:43 14-Oct, 19:43 14-Oct, 19:44 14-Oct, 19:44 14-Oct, 20:18 14-Oct, 20:18

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	2-4km NE	Recorded	7	Projectile	S to N	N/K	14-Oct, 20:35
	2-4km NE	Recorded	4	Explosion	Undetermined	N/K	14-Oct, 20:35
	2-4km NE	Recorded	4	Projectile	S to N	N/K	14-Oct, 20:39
	2-4km NE	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 20:39
	2-4km NE	Recorded	1	Projectile	W to E	N/K	14-Oct, 20:42
	2-4km NE	Recorded	1	Projectile	W to E	N/K	14-Oct, 20:43
	2-4km NE	Recorded	1	Projectile	W to E	N/K	14-Oct, 20:44
	2-4km ENE	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 21:36
	2-4km NE	Recorded	1	Illumination flare	W to E	N/K	14-Oct, 21:44
	2-4km ENE	Recorded	9	Projectile	W to E	N/K	14-Oct, 21:48
	2-4km NE	Recorded	2	Explosion	Undetermined	N/K	14-Oct, 23:27
	2-4km NE	Recorded	14	Projectile	W to E	N/K	14-Oct, 23:27
SMM camera at	2-4km ENE	Recorded	2	Projectile	S to N	N/K	14-Oct, 19:35
entry-exit	2-4km ENE	Recorded	3	Projectile	S to N	N/K	14-Oct, 19:36
checkpoint in	2-4km ENE	Recorded	3	Projectile	S to N	N/K	14-Oct, 19:38
Maiorsk	2-4km ENE	Recorded	8	Projectile	S to N	N/K	14-Oct, 19:54
(government-	3-4km ENE	Recorded	9	Projectile	N to S	N/K	14-Oct, 20:34
controlled, 45km				Ĭ			
NE of Donetsk)	3-4km ENE	Recorded	7	Projectile	NW to SE	N/K	14-Oct, 20:34
	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 19:09
	1-3km NNE	Recorded	4	Projectile	W to E	N/K	14-Oct, 20:14
	1-3km NNE	Recorded	4	Projectile	W to E	N/K	14-Oct, 20:26
	1-3km NNE	Recorded	1	Projectile	In vertical flight	N/K	14-Oct, 21:37
SMM camera at	1-3km NNE	Recorded	2	Projectile	W to E	N/K	14-Oct, 23:26
entry-exit	1-3km NNE	Recorded	2	Projectile	WSW to ENE	N/K	14-Oct, 23:26
checkpoint in	1-3km NNE	Recorded	2	Projectile	W to E	N/K	14-Oct, 23:30
Marinka	1-3km NNE	Recorded	3	Projectile	W to E	N/K	14-Oct, 23:44
(government-	1-3km WNW	Recorded	1	Projectile	SSE to NNW	N/K	14-Oct, 23:44
controlled, 23km	1-3km NNE	Recorded	2	Projectile	W to E	N/K	14-Oct, 23:44
SW of Donetsk)	1-3km NNE	Recorded	2	Projectile	SSE to NNW	N/K	15-Oct, 00:28
	1-3km NNE	Recorded	2	Projectile	W to E	N/K	15-Oct, 00:28
	1-3km NNE	Recorded	1	Projectile	SSE to NNW	N/K	15-Oct, 01:07
	1-3km NNE	Recorded	1	Projectile	W to E	N/K	15-Oct, 01:37
	1-3km NNE	Recorded	1	Explosion	Undetermined	N/K	15-Oct, 01:40
	1-3km NNE	Recorded	3	Projectile	E to W	N/K	15-Oct, 03:26
SMM camera at	2-4km NE	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 18:23
Oktiabr mine (non- government- controlled, 9km NW of Donetsk city centre)	2-4km NE	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 19:08
SMM camera on N	2-4km ESE	Recorded	3	Projectile	N to S	N/K	14-Oct, 21:24
edge of Popasna	2-4km ESE	Recorded	4	Projectile	N to S	N/K	14-Oct, 21:35
(government- controlled, 69km W of Luhansk)	2-4km ESE	Recorded	15	Projectile	N to S	N/K	14-Oct, 21:42
	2-4km S	Recorded	1	Projectile	W to E	N/K	14-Oct, 20:00
	2-4km S	Recorded	22	Projectile	W to E	N/K	14-Oct, 20:04
	2-4km S	Recorded	5	Projectile	W to E	N/K	14-Oct, 20:11
	2-4km S	Recorded	1	Projectile	W to E	N/K	14-Oct, 20:12
	2-4km S	Recorded	4	Explosion	Undetermined	N/K	14-Oct, 20:12
CMAN	2-4km S	Recorded	2	Projectile	W to E	N/K	14-Oct, 20:17
SMM camera at	2-4km S	Recorded	4	Projectile	W to E	N/K	14-Oct, 20:18
entry-exit	2-4km S	Recorded	1	Projectile	W to E	N/K	14-Oct, 20:21
checkpoint in	2-4km S	Recorded	3	Explosion	Undetermined	N/K	14-Oct, 20:29
Pyshchevyk (government-	2-4km S	Recorded	4	Explosion	Undetermined	N/K	14-Oct, 20:30
controlled, 25km	2-4km S	Recorded	1	Projectile	E to W	N/K	14-Oct, 20:30
	2-4km S	Recorded	20	Projectile	E to W	N/K	14-Oct, 20:34
NE of Mariupol)		D 1.1	2	Projectile	E to W	N/K	14-Oct, 20:35
NE of Mariupol)	2-4km S	Recorded					
NE of Mariupol)		Recorded	2	Projectile	E to W	N/K	14-Oct, 20:40
NE of Mariupol)	2-4km S			•	E to W W to E	N/K N/K	14-Oct, 20:40 14-Oct, 21:04
NE of Mariupol)	2-4km S 2-4km S	Recorded Recorded Recorded	2	Projectile Projectile Projectile	W to E W to E		
NE of Mariupol)	2-4km S 2-4km S 2-4km SSE	Recorded Recorded	2 2	Projectile Projectile	W to E	N/K	14-Oct, 21:04

I	lan c	l n		l <b>n</b> + .91	I E . 337	L 3.7.77	1140 : 01.50
	2-4km S	Recorded	1	Projectile	E to W W to E	N/K	14-Oct, 21:52
	2-4km SSE	Recorded	1	Projectile		N/K	14-Oct, 21:52
	2-4km S	Recorded	1	Projectile	W to E	N/K	14-Oct, 22:18
	2-4km S	Recorded	1	Projectile	W to E	N/K	14-Oct, 22:32
	2-4km S	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 22:56
	2-4km S	Recorded	1	Explosion	Undetermined	N/K	14-Oct, 23:25
	2-4km S	Recorded	3	Projectile	W to E	N/K	14-Oct, 23:27
	2-4km S	Recorded	2	Explosion	Undetermined	N/K	14-Oct, 23:27
	2-4km S	Recorded	2	Explosion	Undetermined	N/K	15-Oct, 01:24
	2-4km S	Recorded	2	Projectile	W to E	N/K	15-Oct, 01:26
	2-4km S	Recorded	3	Explosion	Undetermined	N/K	15-Oct, 01:26
	2-4km S	Recorded	5	Explosion	Undetermined	N/K	15-Oct, 01:41
	2-4km S	Recorded	14	Projectile	W to E	N/K	15-Oct, 02:08
	1-2km S	Recorded	1	Explosion	Undetermined	N/K	15-Oct, 02:39
	1-2km S	Recorded	1	Explosion	Undetermined	N/K	15-Oct, 02:43
	2-4km SSE	Recorded	1	Projectile	W to E	N/K	15-Oct, 02:48
	2-4km S	Recorded	1	Projectile	W to E	N/K	15-Oct, 03:34
	2-4km SSE	Recorded	1	Projectile	E to W	N/K	15-Oct, 04:06
	1-3km S	Recorded	1	Explosion	Undetermined	N/K	15-Oct, 04:12
	2-4km S	Recorded	2	Explosion	Undetermined	N/K	15-Oct, 04:49
SMM camera at				•			,
Prince Ihor Monument SE of Stanytsia Luhanska bridge (15km NE of Luhansk)	2-3km ENE	Recorded	1	Explosion	Assessed as outside the disengagement area	N/K	14-Oct, 18:59
SMM camera in Stanytsia Luhanska (government- controlled, 16km NE of Luhansk)	2-4km E	Recorded	1	Projectile	ESE to WNW (assessed as outside the disengagement area)	N/K	15-Oct, 01:01
SMM camera in	2-4km E	Recorded	2	Projectile	SW to NE	N/K	15-Oct, 01:19
Svitlodarsk (government- controlled, 57km NE of Donetsk)	2-4km E	Recorded	1	Explosion	Impact	N/K	15-Oct, 16:21
TAZ OF ZONEGRY	1-3km SE	Recorded	4	Projectile	NE to SW (unable to assess whether inside or outside the disengagement area)	N/K	14-Oct, 20:09
	1-3km ESE	Recorded	4	Projectile	NE to SW (assessed as inside the disengagement area)	N/K	14-Oct, 20:14
SMM camera in Zolote (government-	1-3km SE	Recorded	1	Explosion	Assessed as outside the disengagement area	N/K	14-Oct, 20:22
controlled, 60km W of Luhansk)	1-3km SSE	Recorded	1	Projectile	E to W (unable to assess whether inside or outside the disengagement area)	N/K	14-Oct, 21:14
	1-3km SSE	Recorded	1	Explosion	Unable to assess whether inside or outside the disengagement area NE to SW	N/K	14-Oct, 21:14
	2-4km SE	Recorded	11	Projectile	(assessed as	N/K	15-Oct, 18:07

					inside the disengagement area)		
SE part of Avdiivka	3-4km SSE	Heard	2	Explosion	Undetermined	N/K	15-Oct, 09:38
(government- controlled, 17km N of Donetsk)	3-4km SSE	Heard	1	Burst		HMG	15-Oct, 09:38
S edge of Avdiivka	3-4km SE	Heard	1	Explosion	Undetermined	N/K	15-Oct, 11:36
(government-	2-3km SE	Heard	1	Explosion	Undetermined	N/K	15-Oct, 12:08
controlled, 17km N of Donetsk)	2-3km SE	Heard	1	Explosion	Undetermined	N/K	15-Oct, 12:44
	1.5km NW	Heard	6	Shot		Small arms	15-Oct, 09:36
	1-2km NW	Heard	3	Burst		Small arms	15-Oct, 10:37
	2-3km SW	Heard	1	Explosion	Undetermined	N/K	15-Oct, 10:50
1.1km NW of	2km NW	Heard	1	Explosion	Undetermined	N/K	15-Oct, 11:27
railway station in	2-3km SW	Heard	1	Explosion	Undetermined	N/K	15-Oct, 11:36
Yasynuvata (non-	2-3km NW	Heard	1	Explosion	Undetermined	N/K	15-Oct, 11:41
government-	2-3km NW	Heard	1	Explosion	Undetermined	N/K	15-Oct, 11:55
controlled, 16km	2-3km SW	Heard	1	Explosion	Undetermined	N/K	15-Oct, 12:08
NE of Donetsk)	1-2km W	Heard	3	Shot		Small arms	15-Oct, 13:19
	2-3km SW	Heard	1	Explosion	Undetermined	N/K	15-Oct, 13:32
	2-3km SW	Heard	1	Explosion	Undetermined	N/K	15-Oct, 14:31
	1-2km SW	Heard	1	Burst		Small arms	15-Oct, 14:39
	2km E	Heard	1	Explosion	Undetermined	N/K	15-Oct, 09:35
	2km E	Heard	2	Burst	Undetermined	Small arms	15-Oct, 09:35
	2km SE	Heard	1	Explosion	Undetermined	N/K	15-Oct, 10:31
	2-3km NNE	Heard	9	Explosion	Undetermined	N/K	15-Oct, 13:32- 13:36
1 km NNW of entry-exit	2-3km NNE	Heard	2	Burst	Undetermined	HMG	15-Oct, 13:32- 13:36
checkpoint in	2km NE	Heard	3	Burst	Undetermined	HMG	15-Oct, 13:40
Pyshchevyk (government-	2km NE	Heard	4	Shot	Undetermined	Small arms	15-Oct, 13:40
controlled, 25km NE of Mariupol)	2km NE	Heard	10	Burst	Undetermined	Small arms	15-Oct, 13:47- 13:51
	2km NE	Heard	4	Explosion	Undetermined	N/K	15-Oct, 13:47- 13:51
	2km SE	Heard	7	Shot	Undetermined	Small arms	15-Oct, 14:02- 14:10
	2km NE	Heard	5	Shot	Undetermined	Small arms	15-Oct, 14:02- 14:10
2.5 km SSE of	N/K E	Heard	6	Shot	Undetermined	Small arms	15-Oct, 09:55- 10:05
Lomakyne (government-	N/K E	Heard	29	Burst	Undetermined	Small arms	15-Oct, 09:55- 10:05
controlled, 15 km NE of Mariupol)	N/K NNE	Heard	1	Explosion	Undetermined	N/K	15-Oct, 09:55- 10:05
··· · r/	N/K NE	Heard	2	Explosion	Undetermined	N/K	15-Oct, 10:55
Berdianske (government- controlled, 18km E of Mariupol)	N/K N	Heard	2	Explosion	Undetermined	N/K	15-Oct, 12:28
2.3 km SSE of	N/K NE	Heard	5	Burst	Undetermined	HMG	15-Oct, 13:02
Lebedynske	N/K NE	Heard	6	Explosion	Undetermined	N/K	15-Oct, 13:02
(government- controlled, 16km NE of Mariupol)	N/K NNE	Heard	2	Burst	Undetermined	Small arms	15-Oct, 13:02
Svitlodarsk	3-4km SE	Heard	2	Explosion	Undetermined	N/K	14-Oct, 19:06
(government-	2-3km SE	Heard	5	Burst		HMG	14-Oct, 19:08
controlled, 57km	2-3km SE	Heard	9	Shot		Small	14-Oct, 19:59

NE of Donetsk)

2-3km SE	Ī	1	ı	Ī	ľ	1	l .
2-3km SE   Heard   1   Shot   Small   14-Oct, 20:39						arms	
2-3km SE	3-4km SE	Heard	2	Burst			14-Oct, 20:24
2-3km SW						1	
2-3km SW	2-3km SE	Heard	1	Shot			14-Oct, 20:39
3-4km E	2 21		10	D .			14-Oct, 20:40-
3-4km E         Heard         25         Shot         arms         14-Oct, 20-54           3-4km SE         Heard         2         Shot         Small arms         14-Oct, 20-54           4-5km SE         Heard         5         Shot         Small arms         14-Oct, 21:10           4-5km SE         Heard         14         Burst         HMG         14-Oct, 21:31           3-4km SE         Heard         4         Burst         HMG         14-Oct, 21:33           3-4km SE         Heard         26         Burst         HMG         14-Oct, 21:35           5-6km SE         Heard         26         Burst         HMG         14-Oct, 22:03           5-6km SE         Heard         6         Shot         Small arms         14-Oct, 22:07           5-6km SE         Heard         7         Shot         Small arms         14-Oct, 22:02           4-5km SE         Heard         7         Shot         Small arms         14-Oct, 22:02           4-5km SE         Heard         11         Shot         Small arms         14-Oct, 22:22           4-5km SE         Heard         11         Shot         Small arms         14-Oct, 22:22           4-5km SE         Heard<	2-3km SW	Heard	13	Burst		HMG	· · · · · · · · · · · · · · · · · · ·
3-4km E	2 Alem E	Hoord	25	Chot		Small	14 Oct 20:49
3-4km SE	3-4KIII E	пеаги	23	Shot		arms	14-001, 20.46
3-4km SE	3-4km E	Heard	14	Rurst		Small	14-Oct 20:54
4-5km SE	3 IKIII E	Ticura	- '	Burst			11 001, 20.51
4-5km SE	3-4km SE	Heard	2	Shot			14-Oct, 21:06
4-5km SE   Heard   14   Burst   HMG   14-Oct, 21:12						1	
4-Skm SE	4-5km SE	Heard	5	Shot			14-Oct, 21:11
3-4km SE	4-5km SE	Heard	14	Burst		1	14-Oct. 21:12
3-4km SE							
3-4km SE	3-4km ESE	Heard	27	Burst		HMG	
5-6km SE         Heard         0         Shot         arms         14-Oct, 22:07           5-6km SE         Heard         7         Shot         Small arms         14-Oct, 22:07           4-5km SE         Heard         21         Burst         HMG         14-Oct, 22:02           4-5km SE         Heard         11         Shot         Small arms         14-Oct, 22:02           4-5km SE         Heard         5         Burst         HMG         14-Oct, 22:22           4-5km SE         Heard         6         Burst         HMG         14-Oct, 22:21           4-5km SE         Heard         3         Burst         HMG         14-Oct, 22:21           4-5km SE         Heard         17         Burst         HMG         14-Oct, 22:30           4-5km SE         Heard         7         Burst         HMG         14-Oct, 23:09           4-5km SE         Heard         7         Burst         HMG         14-Oct, 23:09           4-5km SE         Heard         17         Burst         HMG         14-Oct, 23:30           4-5km SE         Heard         13         Burst         HMG         14-Oct, 23:31           4-5km SE         Heard         14	3-4km SE	Heard	26	Burst		HMG	
S-6km SE	5 6km CE	Hoord	6	Chot		Small	14 Oct 22:02
S-6km SE			U			arms	14-001, 22.03
3-5km SE   Heard   7   Shot   Burst   HMG   14-Oct, 22:12	5-6km SE	Heard	14	Burst		HMG	14-Oct, 22:07
4-5km SE	5-6km SE	Heard	7	Shot			14-Oct, 22:07
4-5km SE	4.51 CF	77 1	21				, ,
4-5km SE         Heard         5         Burst         HMG         14-Oct, 22:22           4-5km SE         Heard         6         Burst         HMG         14-Oct, 22:24           5-6km SE         Heard         3         Burst         HMG         14-Oct, 22:24           4-5km SE         Heard         17         Burst         HMG         14-Oct, 23:04           4-5km SE         Heard         6         Shot         HMG         14-Oct, 23:04           4-5km SE         Heard         7         Burst         HMG         14-Oct, 23:04           4-5km SE         Heard         17         Burst         HMG         14-Oct, 23:01           4-5km SE         Heard         13         Burst         HMG         14-Oct, 23:43           4-5km SE         Heard         16         Burst         HMG         14-Oct, 23:49           4-5km SE         Heard         23         Burst         HMG         14-Oct, 23:49           3-5km SE         Heard         21         Burst         HMG         14-Oct, 23:49           3-5km SE         Heard         21         Burst         HMG         15-Oct, 07:00-07:05           3-5km SE         Heard         8 <td< td=""><td>4-5km SE</td><td>Heard</td><td>21</td><td>Burst</td><td></td><td></td><td>14-Oct, 22:12</td></td<>	4-5km SE	Heard	21	Burst			14-Oct, 22:12
4-5km SE         Heard         5         Burst         HMG         14-Oct, 22:22           4-5km SE         Heard         6         Burst         HMG         14-Oct, 22:24           5-6km SE         Heard         3         Burst         HMG         14-Oct, 22:20           4-5km SE         Heard         17         Burst         HMG         14-Oct, 23:09           4-5km SE         Heard         7         Burst         HMG         14-Oct, 23:09           4-5km SE         Heard         7         Burst         HMG         14-Oct, 23:09           4-5km SE         Heard         17         Burst         HMG         14-Oct, 23:11           4-5km SE         Heard         13         Burst         HMG         14-Oct, 23:14           4-5km SE         Heard         16         Burst         HMG         14-Oct, 23:43           4-5km SE         Heard         23         Burst         HMG         14-Oct, 23:49           4-5km SE         Heard         21         Burst         HMG         14-Oct, 23:49           3-4km SE         Heard         21         Burst         HMG         15-Oct, 07:00-07:05           3-5km SW         Heard         8 <t< td=""><td>4-5km SE</td><td>Heard</td><td>11</td><td>Shot</td><td></td><td></td><td>14-Oct, 22:22</td></t<>	4-5km SE	Heard	11	Shot			14-Oct, 22:22
4-5km SE	4-5km SE	Heard	5	Burst		1	14-Oct. 22:22
S-6km SE							
4-6km SE         Heard         17         Burst         HMG         14-Oct, 23:04           4-5km SE         Heard         6         Shot         HMG         14-Oct, 23:09           4-5km SE         Heard         7         Burst         HMG         14-Oct, 23:11           4-5km SE         Heard         17         Burst         HMG         14-Oct, 23:30           4-5km SE         Heard         16         Burst         HMG         14-Oct, 23:43           4-5km SE         Heard         16         Burst         HMG         14-Oct, 23:43           4-5km SE         Heard         23         Burst         HMG         14-Oct, 23:49           4-5km SE         Heard         21         Burst         HMG         14-Oct, 23:49           3-5km SW         Heard         21         Burst         HMG         14-Oct, 23:49           4-5km SW         Heard         8         Explosion         Undetermined         N/K         15-Oct, 07:02-07:05-07:		1				1	
4-5km SE         Heard         7         Burst         HMG         14-Oct, 23:11           4-5km SE         Heard         17         Burst         HMG         14-Oct, 23:16           4-5km SE         Heard         13         Burst         HMG         14-Oct, 23:30           4-5km SE         Heard         16         Burst         HMG         14-Oct, 23:43           4-5km SE         Heard         23         Burst         HMG         14-Oct, 23:49           4-5km SE         Heard         23         Burst         HMG         14-Oct, 23:49           3-5km SW         Heard         21         Burst         HMG         15-Oct, 03:19           3-4km SE         Heard         8         Explosion         Undetermined         N/K         15-Oct, 07:02-07:15           4-5km SW         Heard         6         Explosion         Undetermined         N/K         15-Oct, 07:06-07:16-07:30           3-4km SE         Heard         4         Burst         HMG         15-Oct, 07:16-07:30           3-4km SW         Heard         8         Burst         HMG         15-Oct, 08:50           3-4km SW         Heard         1         Burst         HMG         15-Oct, 08:53	4-6km SE	Heard	17	Burst		HMG	
4-5km SE         Heard         17         Burst         HMG         14-Oct, 23:16           4-5km SE         Heard         13         Burst         HMG         14-Oct, 23:30           4-5km SE         Heard         16         Burst         HMG         14-Oct, 23:43           4-5km SE         Heard         3         Shot         Small arms         14-Oct, 23:49           4-5km SE         Heard         23         Burst         HMG         14-Oct, 23:49           3-5km SW         Heard         21         Burst         HMG         14-Oct, 23:49           4-5km SE         Heard         21         Burst         HMG         14-Oct, 23:49           3-5km SW         Heard         21         Burst         HMG         14-Oct, 23:49           4-5km SW         Heard         21         Burst         HMG         15-Oct, 07:00-07:00-07:05           3-4km SW         Heard         4         Burst         Burst         HMG         15-Oct, 07:16-07:16-07:16-07:16-07:16-07:16-07:30           3-4km SW         Heard         2         Shot         Small         15-Oct, 08:51           3-4km SW         Heard         3         Burst         HMG         15-Oct, 08:52	4-5km SE	Heard	6	Shot		HMG	14-Oct, 23:09
4-5km SE         Heard         13         Burst         HMG         14-Oct, 23:30           4-5km SE         Heard         16         Burst         HMG         14-Oct, 23:43           4-5km SE         Heard         3         Shot         Small arms         14-Oct, 23:49           4-5km SE         Heard         23         Burst         HMG         14-Oct, 23:51           3-5km SW         Heard         21         Burst         HMG         15-Oct, 07:00-07:05           3-4km SE         Heard         8         Explosion         Undetermined         N/K         15-Oct, 07:02-07:15           4-5km SW         Heard         6         Explosion         Undetermined         N/K         15-Oct, 07:02-07:15           4-5km SW         Heard         4         Burst         HMG         15-Oct, 07:16-07:30           3-4km SE         Heard         4         Burst         HMG         15-Oct, 08:16           3-5km SW         Heard         2         Shot         Small arms         15-Oct, 08:17           1-2km SW         Heard         3         Burst         HMG         15-Oct, 08:53           3-5km SE         Heard         1         Burst         HMG         15-Oct, 08:53	4-5km SE	Heard	7	Burst		HMG	14-Oct, 23:11
4-5km SE         Heard         16         Burst         HMG         14-Oct, 23:43           4-5km SE         Heard         3         Shot         Small arms         14-Oct, 23:49           4-5km SE         Heard         23         Burst         HMG         14-Oct, 23:51           3-5km SW         Heard         21         Burst         HMG         15-Oct, 07:00-07:05           3-4km SE         Heard         8         Explosion         Undetermined         N/K         15-Oct, 07:02-07:15-07:30           3-4km SW         Heard         6         Explosion         Undetermined         N/K         15-Oct, 07:16-07:30           3-4km SE         Heard         4         Burst         HMG         15-Oct, 07:16-07:30           3-5km SW         Heard         8         Burst         HMG         15-Oct, 08:16           3-5km SW         Heard         2         Shot         Small arms         15-Oct, 08:50           3-4km SW         Heard         3         Burst         HMG         15-Oct, 08:52           3-5km SE         Heard         1         Burst         HMG         15-Oct, 08:53           1-2km SW         Heard         2         Shot         Small arms         15-Oct, 08			17	Burst			
4-5km SE         Heard         3         Shot         Small arms         14-Oct, 23:49           4-5km SE         Heard         23         Burst         HMG         14-Oct, 23:51           3-5km SW         Heard         21         Burst         HMG         15-Oct, 07:00-07:05-07:05-07:05-07:05-07:05-07:05-07:15           4-5km SE         Heard         8         Explosion         Undetermined         N/K         15-Oct, 07:16-07:15-07:15           4-5km SW         Heard         4         Burst         HMG         15-Oct, 07:16-07:30           3-4km SE         Heard         4         Burst         HMG         15-Oct, 08:16           3-5km SW         Heard         8         Burst         HMG         15-Oct, 08:51           1-2km SW         Heard         2         Shot         Small arms         15-Oct, 08:52           3-5km SE         Heard         1         Burst         HMG         15-Oct, 08:53           1-2km SW         Heard         2         Shot         Small arms         15-Oct, 08:53           3-4km SW         Heard         3         Burst         HMG         15-Oct, 08:55           1-2km SW         Heard         3         Burst         HMG         15-Oct, 08:55 </td <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	-						
4-5km SE         Heard         3         Shot         arms         14-Oct, 23:39           4-5km SE         Heard         23         Burst         HMG         14-Oct, 23:51           3-5km SW         Heard         21         Burst         HMG         15-Oct, 07:00-07:05           3-4km SE         Heard         8         Explosion         Undetermined         N/K         15-Oct, 07:16-07:30           3-4km SE         Heard         4         Burst         HMG         15-Oct, 08:16           3-5km SW         Heard         8         Burst         HMG         15-Oct, 08:16           3-5km SW         Heard         2         Shot         Small arms         15-Oct, 08:50           3-4km SW         Heard         3         Burst         HMG         15-Oct, 08:50           3-5km SE         Heard         1         Burst         HMG         15-Oct, 08:53           1-2km SW         Heard         2         Shot         Small arms         15-Oct, 08:53           3-4km SW         Heard         3         Burst         HMG         15-Oct, 08:53           1-2km SW         Heard         3         Burst         HMG         15-Oct, 08:55           4-5km SW	4-5km SE	Heard	16	Burst			14-Oct, 23:43
4-5km SE         Heard         23         Burst         HMG         14-Oct, 23:51           3-5km SW         Heard         21         Burst         HMG         15-Oct, 07:00-07:05-07:05-07:15           3-4km SE         Heard         8         Explosion         Undetermined         N/K         15-Oct, 07:16-07:15-07:16-07:30           3-4km SE         Heard         4         Burst         HMG         15-Oct, 07:16-07:30           3-4km SE         Heard         4         Burst         HMG         15-Oct, 08:16-07:30           3-5km SW         Heard         8         Burst         HMG         15-Oct, 08:17           1-2km SW         Heard         2         Shot         Small arms         15-Oct, 08:50           3-4km SW         Heard         3         Burst         HMG         15-Oct, 08:52           3-5km SE         Heard         1         Burst         HMG         15-Oct, 08:53           1-2km SW         Heard         2         Shot         Small arms         15-Oct, 08:55           1-2km SW         Heard         3         Burst         HMG         15-Oct, 08:55           1-2km SW         Heard         3         Burst         HMG         15-Oct, 08:55	4-5km SE	Heard	3	Shot			14-Oct, 23:49
3-5km SW         Heard         21         Burst         HMG         15-Oct, 07:00-07:05           3-4km SE         Heard         8         Explosion         Undetermined         N/K         15-Oct, 07:02-07:15           4-5km SW         Heard         6         Explosion         Undetermined         N/K         15-Oct, 07:16-07:30           3-4km SE         Heard         4         Burst         HMG         15-Oct, 08:16           3-5km SW         Heard         8         Burst         HMG         15-Oct, 08:16           3-5km SW         Heard         2         Shot         Small arms         15-Oct, 08:50           3-4km SW         Heard         3         Burst         HMG         15-Oct, 08:52           3-5km SE         Heard         1         Burst         HMG         15-Oct, 08:53           1-2km SW         Heard         2         Shot         Small 15-Oct, 08:53           3-4km SW         Heard         3         Burst         HMG         15-Oct, 08:55           1-2km SW         Heard         3         Burst         HMG         15-Oct, 08:55           4-5km SW         Heard         3         Burst         HMG         15-Oct, 08:56           4-	4-5km SF	Heard	23	Ruret			14-Oct 23:51
3-5km SW         Heard         21         Burst         HMG         07:05           3-4km SE         Heard         8         Explosion         Undetermined         N/K         15-Oct, 07:02-07:15           4-5km SW         Heard         6         Explosion         Undetermined         N/K         15-Oct, 07:16-07:30           3-4km SE         Heard         4         Burst         HMG         15-Oct, 08:16           3-5km SW         Heard         8         Burst         HMG         15-Oct, 08:16           1-2km SW         Heard         2         Shot         Small arms         15-Oct, 08:50           3-4km SW         Heard         1         Burst         HMG         15-Oct, 08:52           3-5km SE         Heard         1         Burst         HMG         15-Oct, 08:53           1-2km SW         Heard         2         Shot         Small arms         15-Oct, 08:55           1-2km SW         Heard         2         Shot         Small arms         15-Oct, 08:55           4-5km SW         Heard         3         Burst         HMG         15-Oct, 08:56           4-5km SE         Heard         1         Explosion         Undetermined         N/K         15-O		Ticaru		Durst		TIMO	
3-4km SE         Heard         8         Explosion         Undetermined         N/K         15-Oct, 07:02-07:15           4-5km SW         Heard         6         Explosion         Undetermined         N/K         15-Oct, 07:16-07:30           3-4km SE         Heard         4         Burst         HMG         15-Oct, 08:16           3-5km SW         Heard         8         Burst         HMG         15-Oct, 08:17           1-2km SW         Heard         2         Shot         Small arms         15-Oct, 08:50           3-4km SW         Heard         3         Burst         HMG         15-Oct, 08:52           3-5km SE         Heard         1         Burst         HMG         15-Oct, 08:53           3-5km SW         Heard         2         Shot         Small arms         15-Oct, 08:53           3-4km SW         Heard         3         Burst         HMG         15-Oct, 08:55           1-2km SW         Heard         3         Burst         HMG         15-Oct, 08:55           4-5km SW         Heard         3         Burst         HMG         15-Oct, 08:56           4-5km SE         Heard         1         Explosion         Undetermined         N/K         15-	3-5km SW	Heard	21	Burst		HMG	
4-5km SW         Heard         6         Explosion         Undetermined         N/K         15-Oct, 07:16-07:30           3-4km SE         Heard         4         Burst         HMG         15-Oct, 08:16           3-5km SW         Heard         8         Burst         HMG         15-Oct, 08:17           1-2km SW         Heard         2         Shot         Small arms         15-Oct, 08:50           3-4km SW         Heard         3         Burst         HMG         15-Oct, 08:52           3-5km SE         Heard         1         Burst         HMG         15-Oct, 08:52           3-5km SW         Heard         2         Shot         Small arms         15-Oct, 08:53           1-2km SW         Heard         3         Burst         HMG         15-Oct, 08:53           1-2km SW         Heard         2         Shot         Small arms         15-Oct, 08:55           4-5km SW         Heard         3         Burst         HMG         15-Oct, 08:56           4-5km SE         Heard         1         Explosion         Undetermined         N/K         15-Oct, 08:57           2-3km SE         Heard         1         Shot         Small arms         15-Oct, 09:42	2.41 GE	77 1	0	E 1 .	TT 1 1	NI /IZ	
4-5km SW         Heard         6         Explosion         Undetermined         N/K         07:30           3-4km SE         Heard         4         Burst         HMG         15-Oct, 08:16           3-5km SW         Heard         8         Burst         HMG         15-Oct, 08:50           3-4km SW         Heard         3         Burst         HMG         15-Oct, 08:52           3-5km SE         Heard         1         Burst         HMG         15-Oct, 08:53           1-2km SW         Heard         2         Shot         Small arms         08:54           3-4km SW         Heard         3         Burst         HMG         15-Oct, 08:53           3-4km SW         Heard         3         Burst         HMG         15-Oct, 08:55           1-2km SW         Heard         2         Shot         Small arms         15-Oct, 08:55           4-5km SW         Heard         3         Burst         HMG         15-Oct, 08:56           4-5km SE         Heard         1         Explosion         Undetermined         N/K         15-Oct, 09:39           2-3km SE         Heard         1         Shot         Small arms         15-Oct, 09:39           2-3km SE<	3-4km SE	Heard	8	Explosion	Undetermined	N/K	07:15
3-4km SE	1-5km SW	Heard	6	Explosion	Undetermined	N/K	15-Oct, 07:16-
3-5km SW         Heard         8         Burst         HMG         15-Oct, 08:17           1-2km SW         Heard         2         Shot         Small arms         15-Oct, 08:50           3-4km SW         Heard         3         Burst         HMG         15-Oct, 08:52           3-5km SE         Heard         1         Burst         HMG         15-Oct, 08:53           1-2km SW         Heard         2         Shot         Small arms         08:54           3-4km SW         Heard         3         Burst         HMG         15-Oct, 08:55           1-2km SW         Heard         2         Shot         Small arms         15-Oct, 08:55           4-5km SW         Heard         3         Burst         HMG         15-Oct, 08:56           4-5km SE         Heard         1         Explosion         Undetermined         N/K         15-Oct, 09:57           2-3km SE         Heard         1         Explosion         Undetermined         N/K         15-Oct, 09:39           2-3km SE         Heard         1         Shot         Small arms         15-Oct, 09:42           4-5km SW         Heard         7         Burst         HMG         15-Oct, 09:59					Chacterinnea		
1-2km SW         Heard         2         Shot         Small arms         15-Oct, 08:50           3-4km SW         Heard         3         Burst         HMG         15-Oct, 08:52           3-5km SE         Heard         1         Burst         HMG         15-Oct, 08:53           1-2km SW         Heard         2         Shot         Small arms         08:54           3-4km SW         Heard         3         Burst         HMG         15-Oct, 08:55           1-2km SW         Heard         2         Shot         Small arms         15-Oct, 08:55           4-5km SW         Heard         3         Burst         HMG         15-Oct, 08:56           4-5km SE         Heard         1         Explosion         Undetermined         N/K         15-Oct, 09:57           2-3km SE         Heard         1         Explosion         Undetermined         N/K         15-Oct, 09:39           2-3km SE         Heard         1         Shot         Small arms         15-Oct, 09:42           4-5km SW         Heard         7         Burst         HMG         15-Oct, 09:59							
3-4km SW         Heard         2 Shot         arms         15-Oct, 08:50           3-4km SW         Heard         3 Burst         HMG         15-Oct, 08:52           3-5km SE         Heard         1 Burst         HMG         15-Oct, 08:53           1-2km SW         Heard         2 Shot         Small arms         08:54           3-4km SW         Heard         3 Burst         HMG         15-Oct, 08:55           1-2km SW         Heard         2 Shot         Small arms         15-Oct, 08:55           4-5km SW         Heard         3 Burst         HMG         15-Oct, 08:56           4-5km SE         Heard         1 Explosion         Undetermined         N/K         15-Oct, 09:57           2-3km SE         Heard         1 Explosion         Undetermined         N/K         15-Oct, 09:39           2-3km SE         Heard         1 Shot         Small arms         15-Oct, 09:42           4-5km SW         Heard         7 Burst         HMG         15-Oct, 09:59	3-5km SW	Heard	8	Burst			15-Oct, 08:17
3-4km SW         Heard         3         Burst         HMG         15-Oct, 08:52           3-5km SE         Heard         1         Burst         HMG         15-Oct, 08:53           1-2km SW         Heard         2         Shot         Small arms 08:54         15-Oct, 08:53-arms 08:54           3-4km SW         Heard         3         Burst         HMG         15-Oct, 08:55-arms 08:56           1-2km SW         Heard         2         Shot         Small arms 08:56           4-5km SW         Heard         3         Burst         HMG         15-Oct, 08:55-arms 08:56           4-5km SE         Heard         1         Explosion         Undetermined         N/K         15-Oct, 08:57           2-3km SE         Heard         1         Explosion         Undetermined         N/K         15-Oct, 09:39           2-3km SE         Heard         2         Shot         Small arms         15-Oct, 09:42           4-5km SW         Heard         7         Burst         HMG         15-Oct, 09:59	1-2km SW	Heard	2	Shot			15-Oct, 08:50
3-5km SE         Heard         1         Burst         HMG         15-Oct, 08:53           1-2km SW         Heard         2         Shot         Small arms 08:54           3-4km SW         Heard         3         Burst         HMG         15-Oct, 08:55           1-2km SW         Heard         2         Shot         Small arms 08:56           4-5km SW         Heard         3         Burst         HMG         15-Oct, 08:55           4-5km SE         Heard         1         Explosion         Undetermined         N/K         15-Oct, 08:57           2-3km SE         Heard         1         Explosion         Undetermined         N/K         15-Oct, 09:09           2-3km SE         Heard         2         Shot         Small arms         15-Oct, 09:39           2-3km SE         Heard         1         Shot         Small arms         15-Oct, 09:42           4-5km SW         Heard         7         Burst         HMG         15-Oct, 09:59	3-4km SW	Heard	3	Rurst			15-Oct 08:52
1-2km SW         Heard         2         Shot         Small arms 08:54           3-4km SW         Heard         3         Burst         HMG         15-Oct, 08:55           1-2km SW         Heard         2         Shot         Small arms 08:56         15-Oct, 08:55-08:56           4-5km SW         Heard         3         Burst         HMG         15-Oct, 08:56           4-5km SE         Heard         1         Explosion         Undetermined         N/K         15-Oct, 08:57           2-3km SE         Heard         1         Explosion         Undetermined         N/K         15-Oct, 09:01           2-3km SE         Heard         2         Shot         Small arms         15-Oct, 09:39           2-3km SE         Heard         1         Shot         Small arms         15-Oct, 09:42           4-5km SW         Heard         7         Burst         HMG         15-Oct, 09:59							
1-2km SW         Heard         2         Shot         arms         08:54           3-4km SW         Heard         3         Burst         HMG         15-Oct, 08:55           1-2km SW         Heard         2         Shot         Small arms         15-Oct, 08:55-08:56           4-5km SW         Heard         3         Burst         HMG         15-Oct, 08:56           4-5km SE         Heard         1         Explosion         Undetermined         N/K         15-Oct, 09:57           2-3km SE         Heard         1         Explosion         Undetermined         N/K         15-Oct, 09:01           2-3km SE         Heard         2         Shot         Small arms         15-Oct, 09:39           2-3km SE         Heard         1         Shot         Small arms         15-Oct, 09:42           4-5km SW         Heard         7         Burst         HMG         15-Oct, 09:59							
3-4km SW         Heard         3         Burst         HMG         15-Oct, 08:55           1-2km SW         Heard         2         Shot         Small arms         15-Oct, 08:55           4-5km SW         Heard         3         Burst         HMG         15-Oct, 08:56           4-5km SE         Heard         1         Explosion         Undetermined         N/K         15-Oct, 08:57           2-3km SE         Heard         1         Explosion         Undetermined         N/K         15-Oct, 09:01           2-3km SE         Heard         2         Shot         Small arms         15-Oct, 09:39           2-3km SE         Heard         1         Shot         Small arms         15-Oct, 09:42           4-5km SW         Heard         7         Burst         HMG         15-Oct, 09:59	1-2km SW	Heard	$\perp$ 2	Shot			
1-2km SW         Heard         2         Shot         arms         08:56           4-5km SW         Heard         3         Burst         HMG         15-Oct, 08:56           4-5km SE         Heard         1         Explosion         Undetermined         N/K         15-Oct, 08:57           2-3km SE         Heard         1         Explosion         Undetermined         N/K         15-Oct, 09:01           2-3km SE         Heard         2         Shot         Small arms         15-Oct, 09:39           2-3km SE         Heard         1         Shot         Small arms         15-Oct, 09:42           4-5km SW         Heard         7         Burst         HMG         15-Oct, 09:59	3-4km SW	Heard	3	Burst		HMG	15-Oct, 08:55
4-5km SW         Heard         3         Burst         HMG         15-Oct, 08:56           4-5km SE         Heard         1         Explosion         Undetermined         N/K         15-Oct, 08:57           2-3km SE         Heard         1         Explosion         Undetermined         N/K         15-Oct, 09:01           2-3km SE         Heard         2         Shot         Small arms         15-Oct, 09:39           2-3km SE         Heard         1         Shot         Small arms         15-Oct, 09:42           4-5km SW         Heard         7         Burst         HMG         15-Oct, 09:59	1-2km SW	Heard	2	Shot			
4-5km SE         Heard         1         Explosion         Undetermined         N/K         15-Oct, 08:57           2-3km SE         Heard         1         Explosion         Undetermined         N/K         15-Oct, 09:01           2-3km SE         Heard         2         Shot         Small arms         15-Oct, 09:39           2-3km SE         Heard         1         Shot         Small arms         15-Oct, 09:42           4-5km SW         Heard         7         Burst         HMG         15-Oct, 09:59							
2-3km SE         Heard         1         Explosion         Undetermined         N/K         15-Oct, 09:01           2-3km SE         Heard         2         Shot         Small arms         15-Oct, 09:39           2-3km SE         Heard         1         Shot         Small arms         15-Oct, 09:42           4-5km SW         Heard         7         Burst         HMG         15-Oct, 09:59					TT 1 · · ·		·
2-3km SE         Heard         2         Shot         Small arms         15-Oct, 09:39           2-3km SE         Heard         1         Shot         Small arms         15-Oct, 09:42           4-5km SW         Heard         7         Burst         HMG         15-Oct, 09:59							
2-3km SE         Heard         2         Shot         arms         15-Oct, 09:39           2-3km SE         Heard         1         Shot         Small arms         15-Oct, 09:42           4-5km SW         Heard         7         Burst         HMG         15-Oct, 09:59	2-3KIII SE	пеаги		Explosion	Undetermined		13-001, 09:01
2-3km SE         Heard         1         Shot         Small arms         15-Oct, 09:42           4-5km SW         Heard         7         Burst         HMG         15-Oct, 09:59	2-3km SE	Heard	2	Shot			15-Oct, 09:39
2-3km SE Heard 1 Shot arms 15-Oct, 09:42 4-5km SW Heard 7 Burst HMG 15-Oct, 09:59							1
4-5km SW Heard 7 Burst HMG 15-Oct, 09:59	2-3km SE	Heard	1	Shot			15-Oct, 09:42
3-4km SE Heard 1 Explosion Undetermined N/K 15-Oct, 10:24			7				
	3-4km SE	Heard	1	Explosion	Undetermined	N/K	15-Oct, 10:24

2-3km SE		2-3km SE	Heard	5	Shot		Small	15-Oct, 10:42
2-3km SE		2-3km SE	Heard	2	Shot			15-Oct, 10:48
2-3km SE		2-3km SF	Heard	1	Explosion	Undetermined		15-Oct 10:50
4-5km ESE								
4-5km ESE					_	Chacterininea		
1		4-5km ESE	Heard	8	Burst		HMG	12:23
2-3km ESE		6-7km ESE	Heard	11	Explosion	Undetermined	N/K	
2-3km ESE		5-7km ESE	Heard	10	Burst			
6-7km ESE		2-3km ESE	Heard	18	Burst			
3-3km E		6-7km ESE	Heard	3	Explosion	Undetermined		
3-4km E		2-3km S	Heard	13	Burst			15-Oct, 12:52
6-7km E		3-4km E	Heard	7	Explosion	Undetermined		15-Oct, 12:54
6-7km E		6-7km E	Heard	6	Explosion	Undetermined	N/K	i i
S-6km SE		6-7km E	Heard	1	Explosion	Undetermined	N/K	
16:16				97		Undetermined		
A-6km SW		J-OKIII SE	Healu		Explosion	Undetermined	IV/IX	
Ikm SE		5-6km SE	Heard	15 1	Burst		HMG	
5-6km NE		4-6km SW	Heard	1	Explosion	Undetermined	N/K	15-Oct, 16:12
Sokm NE		1km SE	Heard	1	Explosion	Undetermined	N/K	15-Oct, 16:22
S-6km NE		5-6km NE	Heard	9	Explosion	Undetermined	N/K	
17:16   15-Oct, 16:49-17:16   15-Oct, 17:17-17:18   15-Oct, 17:20-17:17-17:18   15-Oct, 17:20-17:17-17:18   15-Oct, 17:20-17:17-17:18   15-Oct, 17:20-17:25   17		5-6km NE	Heard	47	Burst		HMG	15-Oct, 16:30-
17:16		5-6km SE	Heard	20	Explosion	Undetermined	N/K	
S-okm NE		5-6km SE	Heard	20	Burst		HMG	i i
Controlled   Con		5-6km NE	Heard	2	Explosion	Undetermined	N/K	
Holmivskyi (nongovernment-controlled, 49km NE of Donetsk)   Sim E   Heard   Heard   Lexplosion   Undetermined   N/K   15-Oct, 10:34		3-4km SE	Heard	17	Explosion	Undetermined	N/K	
Holmivskyi (nongovernment-controlled, 49km NE of Donetsk)   Nedge of Horlivka (nongovernment-controlled, 53km NE of Donetsk)   Nedge of Horlivka (non-government-controlled, 99km NE of Donetsk)   Nedge of Horlivka (non-government-controlled, 39km NE of Donetsk)   Luhansk city (nongovernment-controlled)   1-2km NW   Heard   1   Explosion   Undetermined N/K   15-Oct, 12:04		2-3km W	Heard	4	Burst		HMG	
Holmivskyi (nongovernment-controlled, 49km NE of Donetsk)		3-5km E		1	Explosion	Undetermined	N/K	15-Oct, 10:34
Holmivskyi (nongovernment-controlled, 49km NE of Donetsk)		3-5km E	Heard	1	Explosion	Undetermined	N/K	15-Oct, 10:36
Holmysky1 (nongovernment-controlled, 49km   NE of Donetsk)		3-5km E	Heard	1			N/K	15-Oct, 11:10
3   Explosion   Undetermined   N/K   15-Oct, 11:30	Holmiyalıyi (non		Heard	2	Explosion	Undetermined	N/K	15-Oct, 11:12
controlled, 49km NE of Donetsk)    Solution   Solution	J \	4-6km E	Heard	3	Explosion	Undetermined	N/K	15-Oct, 11:30
NE of Donetsk)    Solution		3-5km E	Heard		Explosion	Undetermined		15-Oct, 11:45
4-6km E Heard 2 Explosion Undetermined N/K 15-Oct, 12:28 4-6km E Heard 4 Explosion Undetermined N/K 15-Oct, 12:29 4-6km E Heard 2 Explosion Undetermined N/K 15-Oct, 12:30 4-6km E Heard 8 Explosion Undetermined N/K 15-Oct, 12:31 4-6km E Heard 2 Explosion Undetermined N/K 15-Oct, 12:31 4-6km E Heard 1 Explosion Undetermined N/K 15-Oct, 12:33 E edge of Dolomitne (non-government-controlled, 53km NE of Donetsk) N edge of Horlivka (non-government-controlled, 39km NE of Donetsk)  N edge of Horlivka (non-government-controlled, 39km NE of Donetsk) Luhansk city (non-government-controlled)  Luhansk city (non-government-controlled)  1-2km NW Heard 1 Explosion Undetermined N/K 15-Oct, 12:07	*	3-5km E	Heard	3				15-Oct, 12:00
4-6km E Heard 2 Explosion Undetermined N/K 15-Oct, 12:30 4-6km E Heard 8 Explosion Undetermined N/K 15-Oct, 12:31 4-6km E Heard 2 Explosion Undetermined N/K 15-Oct, 12:31 E edge of Olomitine (nongovernment-controlled, 53km NE of Donetsk)  N edge of Horlivka (non-government-controlled, 39km NE of Donetsk)  Luhansk city (nongovernment-controlled)  Heard 1 Explosion Undetermined N/K 15-Oct, 12:25-12:30  Undetermined N/K 15-Oct, 12:25-12:30  Undetermined N/K 15-Oct, 12:25-12:30  Undetermined N/K 15-Oct, 12:25-12:30  Small arms 15-Oct, 12:07  Explosion Undetermined N/K 15-Oct, 12:04  Undetermined N/K 15-Oct, 12:07  Undetermined N/K 15-Oct, 12:07  Undetermined N/K 15-Oct, 12:07  Undetermined N/K 15-Oct, 12:07	T(E of Bonetsk)		Heard	2			_	
4-6km E Heard 8 Explosion Undetermined N/K 15-Oct, 12:31  E edge of Oblomitine (nongovernment-controlled, 39km NE of Donetsk)  Luhansk city (nongovernment-controlled)  4-6km E Heard 2 Explosion Undetermined N/K 15-Oct, 12:33  E edge of Oblomitine (nongovernment-controlled)  4-5km E Heard 1 Explosion Undetermined N/K 15-Oct, 09:59  Luhansk city (nongovernment-controlled)  4-5km NE Heard 2 Explosion Undetermined N/K 15-Oct, 12:25-12:30  Luhansk city (nongovernment-controlled)								
4-6km E Heard 2 Explosion Undetermined N/K 15-Oct, 12:33  E edge of Dolomitne (non-government-controlled, 53km NE of Donetsk)  N edge of Horlivka (non-government-controlled, 39km NE of Donetsk)  Luhansk city (non-government-controlled)  Luhansk city (non-government-controlled)  4-6km E Heard 2 Explosion Undetermined N/K 15-Oct, 12:25-12:30  Luhansk city (non-government-controlled)				2				-
E edge of Dolomitne (non-government-controlled, 39km NE of Donetsk)  Luhansk city (non-government-controlled)  E edge of Dolomitne (non-government-controlled)  Heard  1					•			
Dolomitne (non-government-controlled, 53km NE of Donetsk)  N edge of Horlivka (non-government-controlled, 39km NE of Donetsk)  Luhansk city (non-government-controlled)  Luhansk city (non-government-controlled)  Luhansk city (non-government-controlled)  J-2km NW Heard 1 Explosion Undetermined N/K 15-Oct, 12:04  Luhansk city (non-government-controlled)					•		_	
government-controlled, 53km NE of Donetsk)  N edge of Horlivka (non-government-controlled, 39km NE of Donetsk)  Luhansk city (non-government-controlled)		4-5km E	Heard	1	Explosion	Undetermined	N/K	15-Oct, 09:59
N edge of Horlivka (non-government-controlled, 39km NE Heard 2 Explosion Undetermined N/K 15-Oct, 12:04  (non-government-controlled, 39km NE of Donetsk)  Luhansk city (non-government-controlled)  Heard 1 Explosion Undetermined N/K 15-Oct, 12:07  Luhansk city (non-government-controlled)  Luhansk city (non-government-controlled)  Luhansk city (non-government-controlled)	government- controlled, 53km	3-4km S	Heard	12	Explosion	Undetermined	N/K	
(non-government-controlled, 39km NE of Donetsk)  Luhansk city (non-government-controlled)  1-2km NE Heard 6 Shot Small arms 15-Oct, 12:07  Explosion Undetermined N/K 15-Oct, 07:42		4 5km NIC	Постд	2	Evaluation	IIndotama:	N/W	15 Oat 12:04
controlled, 39km NE of Donetsk)  Luhansk city (nongovernment-controlled)  1-2km NE Heard 6 Shot Small arms 15-Oct, 12:07  Explosion Undetermined N/K 15-Oct, 07:42		4-JKIII NE	пеаги		Explosion	Undetermined		13-Oct, 12:04
Luhansk city (non-government-controlled)  1-2km NW Heard 1 Explosion Undetermined N/K 15-Oct, 07:42	controlled, 39km	1-2km NE	Heard	6	Shot			15-Oct, 12:07
	Luhansk city (non- government-	1-2km NW	Heard	1	Explosion	Undetermined	N/K	15-Oct, 07:42
		3-5km WNW	Heard	10	Burst		HMG	15-Oct, 10:07-

government-	1		[		1	1	10:12
controlled, 60km W of Luhansk)	3-5km WNW	Heard	4	Burst		30mm cannon	15-Oct, 10:07- 10:12
	3-5km WNW	Heard	1	Explosion	Undetermined	Artillery (type N/K)	15-Oct, 10:07- 10:12
	10-12km N	Heard	7	Explosion	Undetermined	Artillery (type N/K)	15-Oct, 10:55- 10:57
S edge of the disengagement area near Zolote	2-2.5km NNE	Heard	36	Shot and Burst	Impact (assessed as inside the disengagement area)	Small arms	15-Oct, 10:53- 11:01
(government- controlled, 60km W of Luhansk)	300-400 NNE	Heard and saw	3	Explosion	Impact (assessed as inside the disengagement area)	AGL	15-Oct, 10:53- 11:01
SE edge of Popasna (government-	10-15km NE	Heard	31	Explosion	Undetermined	N/K	15-Oct, 10:54- 11:15
controlled, 69km W of Luhansk)	10km NE	Heard	2	Burst		Small arms	15-Oct, 10:54- 11:15
1.5km SE of Holubivske (non- government- controlled, 51km W of Luhansk)	10-15km SW	Heard	4	Explosion	Undetermined	N/K	15-Oct, 10:55- 10:57
N edge of Pervomaisk (non- government- controlled, 58km W of Luhansk)	1-3km NNE	Heard	16	Shot and burst	Both	Small arms	15-Oct, 11:05- 11:20
Obozne (non- government- controlled, 18km N of Luhansk)	1-3km NE	Heard	5	Burst		Small arms	15-Oct, 12:35- 12:40
N edge of Dachne (non-governmental- controlled, 47km west of Luhansk)	5-8km NNW	Heard	4	Explosion	Undetermined	N/K	15-Oct, 12:45- 12:48
SW edge of Zolote 5 (Mykhailivka)	7-10km NNW	Heard	2	Explosion	Undetermined	N/K	15-Oct, 12:54- 12:56
(non-government- controlled, 58km W of Luhansk)	2-3km NNW	Heard	118	Shot		Small arms	15-Oct, 12:54- 12:58
W edge of Pervomaisk (non- government- controlled, 58km W of Luhansk)	5-10km NNW	Heard	1	Explosion	Undetermined	N/K	15-Oct, 13:58

## 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).