Table of ceasefire violations as of 29 October 2018¹

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera in							
Avdiivka							
(government-	3-5km SE	Recorded	1	Explosion	Airburst	N/K	28-Oct, 18:36
controlled, 17km N of							
Donetsk)	2.21 005	D 1.1	- 1	D ' ''	CW ME	NI/IZ	20.0 . 20.10
SMM camera in	2-3km SSE	Recorded	1	Projectile	SW to NE	N/K	28-Oct, 20:18
Berezove (government-	2-3km SE 2-3km SE	Recorded	1	Projectile	SW to NE	N/K	28-Oct, 20:19
controlled, 31km SW	2-3km SE	Recorded Recorded	1 2	Muzzle flash	SW to NE	N/K N/K	28-Oct, 20:19
of Donetsk)	2-3km SE	Recorded	2	Projectile Muzzle flash	3W to NE	N/K N/K	28-Oct, 20:28 28-Oct, 20:28
of Bonetsky	2-3km SE	Recorded	2	Projectile	SW to NE	N/K N/K	28-Oct, 20:29
	2-3km SE	Recorded	1	Projectile	SW to NE	N/K	28-Oct, 20:30
	2-3km SE	Recorded	1	Projectile	SW to NE	N/K	28-Oct, 20:40
	2-3km SE	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 20:42
	2-3km SE	Recorded	1	Projectile	SW to NE	N/K	28-Oct, 20:53
	2-3km SE	Recorded	1	Projectile	SW to NE	N/K	28-Oct, 20:54
	2-3km SE	Recorded	4	Projectile	SW to NE	N/K	28-Oct, 21:01
	2-3km SE	Recorded	20	Projectile	SW to NE	N/K	28-Oct, 21:02
	2-3km SE	Recorded	2	Projectile	SW to NE	N/K	28-Oct, 21:03
	2-3km SE	Recorded	1	Projectile	SW to NE	N/K	28-Oct, 21:12
	2-3km SE	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 21:12
	2-3km SE	Recorded	1	Projectile	SW to NE	N/K	28-Oct, 21:13
	2-3km SE	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 21:16
	2-3km SE	Recorded	1	Projectile	SW to NE	N/K	28-Oct, 21:18
	2-3km SE	Recorded	1	Projectile	SW to NE	N/K	28-Oct, 21:20
	2-3km SE	Recorded	2	Projectile	SW to NE	N/K	28-Oct, 21:24
	2-3km ESE	Recorded	9	Projectile	SW to NE	N/K	29-Oct, 04:06
SMM camera in	3-4km SSE	Recorded	5	Projectile	W to E	N/K	28-Oct, 18:41
Chermalyk	3-4km SSE	Recorded	6	Projectile	E to W	N/K	28-Oct, 18:42
(government-	3-4km SSE	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 18:42
controlled, 31km NE	3-4km SSE	Recorded	4	Projectile	W to E	N/K	28-Oct, 18:43
of Mariupol)	3-4km SSE	Recorded	1	Projectile	W to E	N/K	28-Oct, 18:44
	3-4km SSE	Recorded	1	Projectile	W to E	N/K	28-Oct, 18:45
	3-4km SSE	Recorded	7	Muzzle flash		N/K	28-Oct, 19:28
	3-4km SSE	Recorded	1	Projectile	W to E	N/K	28-Oct, 19:28
	3-4km SSE	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 19:44
	3-4km SSE	Recorded	6	Muzzle flash	TT 1	N/K	28-Oct, 19:44
	3-4km SSE	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 19:56
	3-4km ESE	Recorded	8	Projectile	SW to NE	N/K	28-Oct, 20:01
	3-4km ESE	Recorded	2	Projectile	NNE to SSW	N/K	28-Oct, 20:01
	3-4km ESE 3-4km ESE	Recorded	2	Projectile	SW to NE	N/K	28-Oct, 20:03
	3-4km ESE	Recorded Recorded	2	Muzzle flash	SSW to NNE	N/K N/K	28-Oct, 20:03
	3-4km ESE	Recorded	4	Projectile Projectile	SSW to NNE	N/K N/K	28-Oct, 20:15 29-Oct, 01:02
	3-4km ESE	Recorded	3	Projectile	SSW to NNE	N/K N/K	29-Oct, 01:03
SMM camera at	1-3km SSW	Recorded	3	Projectile	E to W	N/K	28-Oct, 01:03
Donetsk Filtration	1-3km S	Recorded	1	Explosion	Undetermined	N/K N/K	28-Oct, 18:34
Station (15km N of	1-3km SSW	Recorded	1	Explosion	Airburst	N/K	28-Oct, 18:36
Donetsk)	1-3km SSW	Recorded	2	Projectile	N to S	N/K	28-Oct, 18:39
	1-3km S	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 18:40
	1-3km S	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 18:51
	1-3km SSW	Recorded	5	Projectile	NW to SE	N/K	28-Oct, 18:52
	1-3km SSW	Recorded	1	Projectile	NW to SE	N/K	28-Oct, 18:53
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¹ The table only includes ceasefire violations directly observed by the SMM and it may include those also assessed to be live-fire exercises, controlled detonations, etc. Details provided – in terms of distance, direction, weapons-type, etc. – are based on assessments provided by monitors on the ground, and are not always necessarily precise. When information is not known (indicated with an "N/K"), the SMM was unable to ascertain such information due to distance, weather conditions and/or other considerations. Ceasefire violations recorded by more than one patrol and assessed to be the same are entered only once.

	1-3km SSW	Recorded	1	Projectile	NW to SE	N/K	28-Oct, 19:00
	1-3km SSW	Recorded	1	Projectile	N to S	N/K	28-Oct, 19:02
	1-3km SSW	Recorded	1	Projectile	WNW to ESE	N/K	28-Oct, 19:32
	1-3km SSW	Recorded	2	Projectile	WNW to ESE	N/K	28-Oct, 19:36
	0.5-1km S	Recorded	1	Projectile	E to W	N/K	28-Oct, 19:59
	1-2km SSW	Recorded	5	Explosion	Undetermined	N/K	28-Oct, 20:00
	0.5-1km S	Recorded	1	Projectile	NW to SE	N/K	28-Oct, 20:26
	1-2km SSW	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 20:57
	0.5-1km SSW	Recorded	4	Projectile	NE to SW	N/K	28-Oct, 21:00
	1-2km S	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 21:05
	0.5-1km SSE	Recorded	4	Projectile	E to W	N/K	28-Oct, 21:05
	1-2km S	Recorded	2	Explosion	Undetermined	N/K	28-Oct, 21:13
	2-3km SSW	Recorded	2	Projectile	N to S	N/K	28-Oct, 21:31
	2-3km SSW	Recorded	1	Projectile	W to E	N/K	28-Oct, 21:32
	2-3km SSW	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 21:39
	1-2km SSW	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 22:05
	0.5-1km S	Recorded	2	Projectile	E to W	N/K	28-Oct, 22:12
	1-2km S	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 22:13
	0.5-1km S	Recorded	2	Projectile	NE to SW	N/K	28-Oct, 22:14
	0.2-0.5km S	Recorded	2	Projectile	E to W	N/K	28-Oct, 22:15
	1-2km S	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 22:16
	0.5-1km S	Recorded	1	Illumination flare		N/K	28-Oct, 22:39
	1-2km SSW	Recorded	3	Projectile	NW to SE	N/K	28-Oct, 22:51
	1-2km S	Recorded	1	Projectile	W to E	N/K	28-Oct, 23:40
	1-2km S	Recorded	1	Projectile	W to E	N/K	29-Oct, 00:33
	1-2km S	Recorded	2	Projectile	SSE to NNW	N/K	29-Oct, 00:36
	2-3km SSW	Recorded	14	Projectile	W to E	N/K	29-Oct, 00:48
	2-3km S	Recorded	1	Projectile	E to W	N/K	29-Oct, 00:55
	2-3km S	Recorded	1	Explosion	Impact	N/K	29-Oct, 00:55
	1-2km S	Recorded	1	Projectile	E to W	N/K	29-Oct, 01:03
	2-3km SSW	Recorded	2	Explosion	Undetermined	N/K	29-Oct, 01:09
	2-3km SSW	Recorded	1	Explosion	Undetermined	N/K	29-Oct, 01:57
	1-2km S	Recorded	1	Projectile	E to W	N/K	29-Oct, 02:09
	2-3km SSW	Recorded	1	Explosion	Undetermined	N/K	29-Oct, 02:31
	2-3km SSW	Recorded	1	Projectile	W to E	N/K	29-Oct, 02:36
	2-3km SSW	Recorded	1	Projectile	NW to SE	N/K	29-Oct, 02:39
	1-2km SSW	Recorded	2	Projectile	SSE to NNW	N/K N/K	29-Oct, 02:40
	2-3km SSW	Recorded Recorded	2	Explosion Projectile	Undetermined W to E	N/K N/K	29-Oct, 03:06 29-Oct, 03:34
	1-2km SSW 2-3km SSW	Recorded	2	Projectile	NW to SE	N/K N/K	29-Oct, 03:34 29-Oct, 04:17
	2-3km SSW	Recorded	1	Projectile	W to E	N/K	29-Oct, 04:17 29-Oct, 04:19
SMM camera 1.5km	4-6km ENE	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 18:37
NE of Hnutove	4-6km ENE	Recorded	3	Projectile	S to N	N/K	28-Oct, 18:39
(government-	4-6km ENE	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 18:39
controlled, 20km NE	4-6km ESE	Recorded	3	Projectile	S to N	N/K	28-Oct, 18:42
of Mariupol)	4-6km ESE	Recorded	1	Projectile	W to E	N/K	28-Oct, 18:42
* '	4-6km ESE	Recorded	8	Projectile	SW to NE	N/K	28-Oct, 18:43
	4-6km ESE	Recorded	2	Projectile	SW to NE	N/K	28-Oct, 18:44
	4-6km ENE	Recorded	1	Projectile	N to S	N/K	28-Oct, 18:44
	4-6km ENE	Recorded	3	Projectile	In vertical flight	N/K	28-Oct, 18:45
	4-6km ENE	Recorded	2	Projectile	N to S	N/K	28-Oct, 18:45
	4-6km ENE	Recorded	3	Explosion	Undetermined	N/K	28-Oct, 18:46
	4-6km ENE	Recorded	1	Projectile	S to N	N/K	28-Oct, 18:46
	4-6km ESE	Recorded	1	Muzzle flash		N/K	28-Oct, 18:46
	4-6km ENE	Recorded	14	Projectile	N to S	N/K	28-Oct, 18:46
	4-6km ENE	Recorded	1	Projectile	N to S	N/K	28-Oct, 18:50
	4-6km ESE	Recorded	4	Projectile	SW to NE	N/K	28-Oct, 18:45
	4-6km ESE	Recorded	2	Projectile	SW to NE	N/K	28-Oct, 19:10
	4-6km ESE	Recorded	5	Projectile	SW to NE	N/K	28-Oct, 19:11
	4-6km ENE	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 19:11
	4-6km ESE	Recorded	5	Projectile	SW to NE	N/K	28-Oct, 19:12
	4-6km ENE	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 19:12
	4-6km ESE	Recorded	1	Projectile	SW to NE	N/K	28-Oct, 19:17
	4-6km ENE	Recorded	1	Projectile	S to N	N/K	28-Oct, 19:13

4-6km ESE	Recorded	3	Projectile	S to N	N/K	28 Oct 10:14
4-6km ESE	Recorded	2	Projectile	S to N	N/K N/K	28-Oct, 19:14 28-Oct, 19:16
2-4km ESE	Recorded	5	Projectile	S to N	N/K	28-Oct, 19:26
2-4km ESE	Recorded	5	Projectile	S to N	N/K	28-Oct, 19:27
2-4km E	Recorded	6	Projectile	N to S	N/K	28-Oct, 19:27
2-4km E	Recorded	5	Projectile	N to S	N/K	28-Oct, 19:28
2-4km E	Recorded	3	Projectile	S to N	N/K	28-Oct, 19:28
2-4km E	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 19:28
2-4km E	Recorded	7	Projectile	N to S	N/K	28-Oct, 19:30
2-4km ENE	Recorded	3	Projectile	S to N	N/K	28-Oct, 19:32
2-4km ENE	Recorded	4	Projectile	S to N	N/K	28-Oct, 19:33
2-4km E	Recorded	1	Projectile	S to N	N/K	28-Oct, 19:40
2-4km ESE	Recorded	2	Projectile	N to S	N/K	28-Oct, 19:43
2-4km ESE	Recorded	12	Projectile	N to S	N/K	28-Oct, 19:44
2-4km ENE	Recorded	2	Explosion	Undetermined	N/K	28-Oct, 19:44
2-4km ESE	Recorded	2	Projectile	N to S	N/K	28-Oct, 19:46
2-4km E	Recorded	3	Projectile	N to S	N/K	28-Oct, 19:47
2-4km ENE	Recorded	1	Projectile	N to S	N/K	28-Oct, 19:49
2-4km ENE	Recorded	5	Projectile	N to S	N/K	28-Oct, 19:50
2-4km ENE	Recorded	3	Projectile	N to S	N/K	28-Oct, 19:52
2-4km ESE	Recorded	2	Projectile	S to N	N/K	28-Oct, 19:52
2-4km E	Recorded	2	Explosion	Undetermined	N/K	28-Oct, 20:03
2-4km E	Recorded	2	Projectile Projectile	SE to NW	N/K N/K	28-Oct, 20:03
2-4km E 2-4km E	Recorded Recorded	1	Projectile Muzzle flash	N to S	N/K N/K	28-Oct, 20:03 28-Oct, 20:03
2-4km E	Recorded	9	Projectile	N to S	N/K N/K	28-Oct, 20:04
2-4km E	Recorded	2	Projectile	S to N	N/K	28-Oct, 20:04 28-Oct, 20:04
2-4km E	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 20:04 28-Oct, 20:04
2-4km E	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 20:07
2-4km E	Recorded	1	Muzzle flash	Chacterminea	N/K	28-Oct, 20:08
2-4km E	Recorded	5	Muzzle flash		N/K	28-Oct, 20:10
2-4km E	Recorded	1	Projectile	In vertical flight	N/K	28-Oct, 20:14
2-4km E	Recorded	5	Projectile	N to S	N/K	28-Oct, 20:16
2-4km E	Recorded	1	Muzzle flash		N/K	28-Oct, 20:16
2-4km E	Recorded	3	Projectile	N to S	N/K	28-Oct, 20:17
2-4km E	Recorded	1	Projectile	S to N	N/K	28-Oct, 20:17
2-4km E	Recorded	2	Muzzle flash		N/K	28-Oct, 20:17
2-4km ESE	Recorded	3	Projectile	S to N	N/K	28-Oct, 20:18
2-4km ESE	Recorded	2	Projectile	In vertical flight	N/K	28-Oct, 20:19
2-4km ESE	Recorded	1	Projectile	S to N	N/K	28-Oct, 20:19
2-4km E	Recorded	9	Projectile	N to S	N/K	28-Oct, 20:21
2-4km E	Recorded	2	Explosion	Undetermined	N/K	28-Oct, 20:23
2-4km ENE	Recorded	2	Projectile	S to N	N/K	28-Oct, 20:23
2-4km E	Recorded	8	Projectile	N to S	N/K	28-Oct, 20:31
2-4km E	Recorded	6	Projectile Projectile	NW to SE	N/K	28-Oct, 20:32
2-4km E	Recorded	2	Projectile Projectile	N to S	N/K N/K	28-Oct, 20:37
2-4km ESE 2-4km ESE	Recorded Recorded	1	Projectile Projectile	S to N In vertical flight	N/K N/K	28-Oct, 20:43 28-Oct, 20:43
2-4km ESE	Recorded	1	Projectile	S to N	N/K N/K	28-Oct, 20:58
2-4km ESE	Recorded	1	Projectile	S to N	N/K	28-Oct, 20:59
2-4km ENE	Recorded	1	Illumination flare	5 10 11	N/K	28-Oct, 21:00
2-4km ESE	Recorded	2	Projectile	S to N	N/K	28-Oct, 21:01
2-4km ENE	Recorded	4	Projectile	S to N	N/K	28-Oct, 21:04
2-4km ENE	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 21:04
2-4km ENE	Recorded	1	Projectile	In vertical flight	N/K	28-Oct, 21:04
2-4km ENE	Recorded	1	Projectile	S to N	N/K	28-Oct, 21:05
2-4km ESE	Recorded	5	Projectile	S to N	N/K	28-Oct, 21:06
2-4km ESE	Recorded	3	Projectile	S to N	N/K	28-Oct, 21:07
2-4km SE	Recorded	1	Projectile	SSW to NNE	N/K	28-Oct, 21:10
2-4km SE	Recorded	2	Explosion	Undetermined	N/K	28-Oct, 21:15
2-4km ESE	Recorded	2	Projectile	S to N	N/K	28-Oct, 21:17
2-4km ESE	Recorded	2	Projectile	S to N	N/K	28-Oct, 21:19
2-4km ESE	Recorded	1	Projectile	S to N	N/K	28-Oct, 21:26
2-4km E	Recorded	12	Projectile	NW to SE	N/K	28-Oct, 22:25

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	2-4km E	Recorded	22	Projectile	NW to SE	N/K	28-Oct, 22:26
	2-4km E 2-4km E	Recorded Recorded	7 1	Projectile Burst	N to S N to S	N/K N/K	28-Oct, 22:31 28-Oct, 22:31
	2-4km E	Recorded	8	Projectile	N to S	N/K N/K	28-Oct, 22:32
	2-4km E	Recorded	2	Projectile	S to N	N/K N/K	28-Oct, 22:32
	2-4km E	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 22:33
	2-4km E	Recorded	3	Projectile	N to S	N/K	28-Oct, 22:33
	2-4km E	Recorded	4	Projectile	N to S	N/K	28-Oct, 22:34
	2-4km E	Recorded	4	Projectile	S to N	N/K	28-Oct, 22:34
	2-4km E	Recorded	5	Projectile	N to S	N/K	28-Oct, 22:35
	2-4km ENE	Recorded	1	Projectile	S to N	N/K	28-Oct, 22:49
	4-6km ENE	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 22:49
	2-4km ENE	Recorded	2	Projectile	N to S	N/K	28-Oct, 22:55
	2-4km E	Recorded	4	Projectile	NW to SE	N/K	28-Oct, 23:21
	2-4km E	Recorded	10	Projectile	S to N	N/K	28-Oct, 23:22
	2-4km E	Recorded	9	Projectile	NW to SE	N/K	28-Oct, 23:23
	2-4km ENE	Recorded	3	Illumination flare	In vertical flight	N/K	28-Oct, 23:37
	2-4km ENE	Recorded	11	Projectile	N to S	N/K	29-Oct, 00:02
	2-4km ENE	Recorded	6	Projectile	N to S	N/K	29-Oct, 00:03
	2-4km E	Recorded	6	Projectile	SSW to NNE	N/K	29-Oct, 00:42
	2-4km E	Recorded	1	Projectile	S to N	N/K	29-Oct, 00:49
	2-4km E	Recorded	4	Projectile	NW to SE	N/K	29-Oct, 00:53
***	2-4km E	Recorded	1	Projectile	In vertical flight	N/K	29-Oct, 01:20
SMM camera at entry-exit checkpoint in Maiorsk (government- controlled, 45km NE of Donetsk)	2-4km ENE	Recorded	3	Projectile	S to N	N/K	28-Oct, 18:55
SMM camera at	2-3km NNE	Recorded	1	Projectile	E to W	N/K	28-Oct, 20:11
entry-exit checkpoint	2-3km NNE	Recorded	5	Projectile	W to E	N/K	28-Oct, 20:51
in Marinka	2-3km NNE	Recorded	6	Projectile	W to E	N/K	28-Oct, 20:51
(government-	2-3km NNE	Recorded	11	Projectile	W to E	N/K	28-Oct, 20:52
controlled, 23km SW	2-3km N	Recorded	1	Projectile	E to W	N/K	28-Oct, 20:52
of Donetsk)	2-3km NNE	Recorded	3	Projectile	W to E	N/K	28-Oct, 20:53
	2-3km NNE	Recorded	1	Projectile	E to W	N/K	28-Oct, 20:55
	2-3km NNE	Recorded	2	Projectile	E to W	N/K	28-Oct, 20:56
	2-3km N	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 21:18
SMM camera at	1-3km SSE	Recorded	6	Projectile	W to E	N/K	28-Oct, 18:42
entry-exit checkpoint	1-3km SSE	Recorded	1	Projectile	In vertical flight	N/K	28-Oct, 18:42
in Pyshchevyk	1-3km SSE	Recorded	2	Projectile	W to E	N/K	28-Oct, 18:45
(government- controlled, 25km NE	1-3km SSE	Recorded	12	Projectile	E to W	N/K	28-Oct, 19:11
of Mariupol)	1-3km SSE	Recorded	2	Projectile	W to E	N/K	28-Oct, 19:11
or warupor)	1-3km SSE	Recorded	1	Projectile	NW to SE	N/K	28-Oct, 19:19
	1-3km SSE	Recorded	1	Projectile	E to W	N/K	28-Oct, 19:24
	1-3km SSE	Recorded	5	Projectile	E to W	N/K N/K	28-Oct, 19:26
	1-3km SSE 1-3km SSE	Recorded Recorded	4	Projectile Projectile	E to W WNW to ESE	N/K N/K	28-Oct, 19:27 28-Oct, 19:32
	1-3km SSE	Recorded	3	Projectile	E to W	N/K N/K	
	1-3km SSE	Recorded	10	Projectile	E to W	N/K N/K	28-Oct, 19:43 28-Oct, 19:44
	2-4km SSE	Recorded	3	Projectile	E to W	N/K	28-Oct, 19:44 28-Oct, 20:16
	2-3km SSE	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 20:10 28-Oct, 21:06
	2-3km SSE	Recorded	1	Projectile	NW to SE	N/K	28-Oct, 21:17
 	2-3km S	Recorded	21	Projectile	W to E	N/K	28-Oct, 23:21
<u> </u>	2-3km S	Recorded	16	Projectile	W to E	N/K	28-Oct, 23:58
•	2-3km S	Recorded	7	Projectile	W to E	N/K	29-Oct, 00:13
SMM camera in	2-4km E	Recorded	12	Projectile	N to S	N/K	28-Oct, 20:59
Svitlodarsk	2-4km E	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 20:59
(government-	2-4km E	Recorded	15	Projectile	N to S	N/K	28-Oct, 21:02
controlled, 57km NE	2-4km ESE	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 21:02
			1	Explosion	Undetermined	N/K	28-Oct, 21:02
of Donetsk)	2-4km E	Recorded		Lapiosion			
of Donetsk)	2-4km E 2-4km E	Recorded	2	Projectile	S to N	N/K	28-Oct, 22:39
of Donetsk)			-			N/K N/K	

(government-controlled, 17km N of Donetsk) 2-3km NE Heard 1 Explosion Under Un	letermined letermined Sr Sr letermined letermined Sr Sr letermined letermined Sr Sr Sr Sr Sr Sr Sr Sr	N/K	28-Oct, 23:32 28-Oct, 23:42 29-Oct, 02:01 29-Oct, 02:04 29-Oct, 05:16 29-Oct, 11:11 29-Oct, 11:31 29-Oct, 12:09 29-Oct, 13:54 29-Oct, 14:19 29-Oct, 14:27 29-Oct, 14:28 29-Oct, 14:36 29-Oct, 14:47 29-Oct, 08:37 29-Oct, 08:37 29-Oct, 08:57 29-Oct, 09:02 29-Oct, 09:03 29-Oct, 09:16 29-Oct, 09:38
2-4km ESE	S to N S to N Impact determined letermined sr Sr Sr Sr Sr Sr	N/K N/K N/K N/K N/K N/K N/K N/K HMG HMG mall arms N/K N/K N/K N/K M/K N/K M/K N/K N/K N/K N/K N/K N/K M/K N/K M/K M/K	29-Oct, 02:01 29-Oct, 02:04 29-Oct, 05:16 29-Oct, 11:11 29-Oct, 11:31 29-Oct, 12:09 29-Oct, 13:54 29-Oct, 14:19 29-Oct, 14:27 29-Oct, 14:28 29-Oct, 14:36 29-Oct, 14:47 29-Oct, 08:37 29-Oct, 08:57 29-Oct, 09:02 29-Oct, 09:03 29-Oct, 09:16 29-Oct, 09:19
2-4km ESE	S to N Impact determined letermined letermined letermined SI determined letermined letermined sort Sr Sr Sr Sr Sr Sr	N/K N/K N/K N/K N/K N/K N/K HMG HMG mall arms N/K N/K N/K M/K mall arms mall arms m/K N/K N/K N/K N/K N/K N/K N/K N/K N/K N	29-Oct, 02:04 29-Oct, 05:16 29-Oct, 11:11 29-Oct, 11:31 29-Oct, 12:09 29-Oct, 13:54 29-Oct, 14:19 29-Oct, 14:27 29-Oct, 14:28 29-Oct, 14:36 29-Oct, 14:47 29-Oct, 08:37 29-Oct, 08:57 29-Oct, 09:02 29-Oct, 09:03 29-Oct, 09:16 29-Oct, 09:19
2-4km ESE	Impact determined letermined letermined letermined Sr letermined letermined letermined letermined sr Sr Sr Sr Sr Sr	N/K N/K N/K N/K N/K N/K HMG HMG mall arms N/K N/K N/K M/K mall arms mall arms m/K N/K N/K N/K N/K N/K N/K N/K N/K N/K N	29-Oct, 05:16 29-Oct, 11:11 29-Oct, 11:31 29-Oct, 12:09 29-Oct, 13:54 29-Oct, 14:19 29-Oct, 14:27 29-Oct, 14:28 29-Oct, 14:36 29-Oct, 14:47 29-Oct, 08:37 29-Oct, 08:57 29-Oct, 09:02 29-Oct, 09:03 29-Oct, 09:16 29-Oct, 09:19
SE part of Avdiivka (government- controlled, 17km N of Donetsk) Krasnohorivka (government- controlled, 21km W of Donetsk) 1-2km SE Heard 1 Explosion Under Controlled, 21km W of Donetsk) 1-2km SE Heard 1 Explosion Under Controlled, 21km W of Donetsk) 1-2km SE Heard 1 Explosion Under Controlled, 21km W of Donetsk) 1-2km SE Heard 1 Explosion Under Controlled, 21km W of Donetsk) 1-2km SE Heard 1 Explosion Under Controlled, 21km W of Donetsk) 1-2km SE Heard 1 Explosion Under Controlled, 21km W Of Donetsk) 1-2km SE Heard 1 Explosion Under Controlled, 16km NE Of Donetsk) 1-2km SW Heard 1 Explosion Under Controlled, 16km NE Of Donetsk) 2-3km SW Heard 1 Burst Controlled, 16km NE Of Donetsk) 2-3km SW Heard 1 Explosion Under Controlled, 16km NE Of Donetsk) 2-3km SW Heard 1 Burst Controlled, 16km NE Of Donetsk) 2-3km SW Heard 1 Burst Controlled, 16km NE Of Donetsk) 2-3km SW Heard 1 Burst Controlled, 16km NE Of Donetsk) 2-3km SW Heard 1 Burst Controlled, 16km NE Of Donetsk) 2-3km SW Heard 1 Burst Controlled, 16km NE Of Donetsk) 2-3km SW Heard 1 Burst Controlled, 16km NE Of Donetsk) 2-3km SW Heard 1 Burst Controlled, 16km NE Of Donetsk) 2-3km SW Heard 1 Burst Controlled, 16km NE Of Donetsk) 2-3km SW Heard 1 Burst Controlled, 16km NE Of Donetsk) 2-3km SW Heard 1 Burst Controlled, 16km NE Of Donetsk) 2-3km SW Heard 1 Burst Controlled, 16km NE Of Donetsk) 2-3km SW Heard 1 Burst Controlled, 16km NE Of Donetsk) 2-3km SW Heard 1 Burst Controlled, 16km NE Of Donetsk) 2-3km SW Heard 1 Burst Controlled, 16km NE Of Donetsk	determined letermined	N/K N/K N/K N/K HMG HMG mall arms N/K N/K N/K M/K mall arms N/K N/K mall arms mall arms	29-Oct, 11:11 29-Oct, 11:31 29-Oct, 12:09 29-Oct, 13:54 29-Oct, 14:19 29-Oct, 14:27 29-Oct, 14:28 29-Oct, 14:36 29-Oct, 14:47 29-Oct, 08:37 29-Oct, 08:57 29-Oct, 09:02 29-Oct, 09:03 29-Oct, 09:16 29-Oct, 09:19
(government-controlled, 17km N of Donetsk) 2-3km NE Heard	letermined	N/K N/K N/K HMG HMG mall arms N/K N/K N/K mall arms M/K N/K mall arms m/K N/K N/K N/K N/K N/K N/K N/K N/K N/K M/K M/K M/K M/K M/K M/K M/K M/K M/K M	29-Oct, 11:31 29-Oct, 12:09 29-Oct, 13:54 29-Oct, 14:19 29-Oct, 14:27 29-Oct, 14:28 29-Oct, 14:36 29-Oct, 14:47 29-Oct, 08:37 29-Oct, 08:57 29-Oct, 09:02 29-Oct, 09:03 29-Oct, 09:16 29-Oct, 09:19
controlled, 17km N of Donetsk) 2km SE Heard 1 Explosion Under Unde	letermined Sr	N/K N/K HMG HMG mall arms N/K N/K N/K mall arms mall arms N/K N/K N/K mall arms mall arms	29-Oct, 12:09 29-Oct, 13:54 29-Oct, 14:19 29-Oct, 14:27 29-Oct, 14:28 29-Oct, 14:36 29-Oct, 14:47 29-Oct, 08:37 29-Oct, 08:57 29-Oct, 09:02 29-Oct, 09:03 29-Oct, 09:16 29-Oct, 09:19
Donetsk 3-4km SE	letermined SI letermined letermined letermined SI SI letermined letermined SI SI SI SI SI SI SI	N/K HMG HMG mall arms N/K N/K N/K M/K mall arms mall arms N/K N/K N/K M/K N/K M/K mall arms mall arms	29-Oct, 13:54 29-Oct, 14:19 29-Oct, 14:27 29-Oct, 14:28 29-Oct, 14:36 29-Oct, 14:47 29-Oct, 08:37 29-Oct, 08:37 29-Oct, 08:57 29-Oct, 09:02 29-Oct, 09:03 29-Oct, 09:16 29-Oct, 09:19
Controlled, 21km W of Donetsk Controlled, 21km SE	Sribetermined letermined Sribetermined letermined Sribetermined Sribete	HMG HMG HMG mall arms N/K N/K N/K mall arms mall arms N/K N/K N/K N/K and arms N/K N/K mall arms mall arms	29-Oct, 14:19 29-Oct, 14:27 29-Oct, 14:28 29-Oct, 14:36 29-Oct, 14:47 29-Oct, 08:37 29-Oct, 08:37 29-Oct, 08:57 29-Oct, 09:02 29-Oct, 09:03 29-Oct, 09:16 29-Oct, 09:19
(government-controlled, 21km W of Donetsk) 2-3km ESE Heard 6 Burst 1-2km SE Heard 8 Burst 2-3km SE Heard 1 Explosion Under Explosion 1.1km NW of the railway station in Yasynuvata (nongovernment-controlled, 16km NE of Donetsk) 2-3km SW Heard 1 Burst 2-3km SW Heard 3 Shot Shot 2-3km SW Heard 3 Explosion Under Explosion 2-3km SW Heard 3 Explosion Under Explosion 2-3km SW Heard 3 Explosion Under Explosion 2-3km SW Heard 2 Explosion Under Explosion 2-3km SW Heard 2 Shot Explosion 2-3km SW Heard 2 Shot Explosion 2-3km SW Heard 1 Burst 2-3km SW Heard 2 Shot 2-3km SW Heard 1 Explosion 2-3km SW Heard 1<	letermined letermined Sr Sr letermined letermined Sr Sr letermined letermined Sr Sr Sr Sr Sr Sr Sr Sr	HMG mall arms N/K N/K N/K mall arms mall arms N/K N/K N/K N/K N/K mall arms mall arms	29-Oct, 14:27 29-Oct, 14:28 29-Oct, 14:36 29-Oct, 14:47 29-Oct, 08:37 29-Oct, 08:37 29-Oct, 08:57 29-Oct, 09:02 29-Oct, 09:03 29-Oct, 09:16 29-Oct, 09:19
1-2km SE	letermined letermined Sr Sr letermined letermined Sr Sr letermined letermined Sr Sr Sr Sr Sr Sr Sr Sr	N/K N/K N/K mall arms mall arms N/K N/K N/K andl arms arms n/K n/K mall arms mall arms	29-Oct, 14:28 29-Oct, 14:36 29-Oct, 14:47 29-Oct, 08:37 29-Oct, 08:57 29-Oct, 09:02 29-Oct, 09:03 29-Oct, 09:16 29-Oct, 09:19
2-3km SE	letermined Sr Sr letermined Sr letermined letermined letermined Sr letermined Sr letermined Sr Sr Sr Sr Sr	N/K N/K mall arms mall arms N/K N/K N/K N/K mall arms mall arms	29-Oct, 14:47 29-Oct, 08:37 29-Oct, 08:37 29-Oct, 08:57 29-Oct, 09:02 29-Oct, 09:03 29-Oct, 09:16 29-Oct, 09:19
1.1km NW of the railway station in Yasynuvata (nongovernment-controlled, 16km NE of Donetsk) 2-3km SW Heard 1 Burst Burst Heard 2 Explosion Under Un	letermined SI SI SI letermined letermined SI SI SI SI SI SI	N/K mall arms mall arms N/K N/K N/K n/K mall arms mall arms mall arms	29-Oct, 08:37 29-Oct, 08:37 29-Oct, 08:57 29-Oct, 09:02 29-Oct, 09:03 29-Oct, 09:16 29-Oct, 09:19
Tailway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	Sr Sr letermined letermined letermined Sr Sr Sr	mall arms mall arms N/K N/K N/K mall arms mall arms	29-Oct, 08:37 29-Oct, 08:57 29-Oct, 09:02 29-Oct, 09:03 29-Oct, 09:16 29-Oct, 09:19
Yasynuvata (nongovernment-controlled, 16km NE of Donetsk) 2-3km SW Heard 3 Shot 2-3km NW Heard 18 Explosion Under Controlled, 16km NE of Donetsk) 2-3km SW Heard 3 Explosion Under Controlled, 16km NE of Donetsk) 2-3km SW Heard 2 Explosion Under Controlled, 16km NE of Donetsk) 2-3km SW Heard 2 Explosion Under Controlled, 16km NE of Donetsk) 2-3km SW Heard 4 Shot Shot 2-3km SW Heard 1 Burst 2-3km SW Heard 12 Shot 2-3km SW Heard 5 Shot 2-3km SW Heard 1 Explosion Under Controlled, 10km NE of Donetsk	Sriletermined eletermined sriletermined sril	mall arms N/K N/K N/K mall arms mall arms	29-Oct, 08:57 29-Oct, 09:02 29-Oct, 09:03 29-Oct, 09:16 29-Oct, 09:19
Yasynuvata (nongovernment-controlled, 16km NE of Donetsk) 2-3km SW Heard 3 Shot 2-3km NW Heard 18 Explosion Under Controlled, 16km NE of Donetsk) 2-3km SW Heard 3 Explosion Under Controlled, 16km NE of Donetsk) 2-3km SW Heard 2 Explosion Under Controlled, 16km NE of Donetsk) 2-3km SW Heard 2 Explosion Under Controlled, 16km NE of Donetsk) 2-3km SW Heard 4 Shot Shot 2-3km SW Heard 1 Burst 2-3km SW Heard 12 Shot 2-3km SW Heard 5 Shot 2-3km SW Heard 1 Explosion Under Controlled, 10km NE of Donetsk	letermined letermined letermined Sr Sr Sr Sr Sr	N/K N/K N/K mall arms mall arms	29-Oct, 08:57 29-Oct, 09:02 29-Oct, 09:03 29-Oct, 09:16 29-Oct, 09:19
2-3km SW	letermined Sr Sr Sr Sr Sr Sr Sr S	N/K N/K mall arms mall arms	29-Oct, 09:03 29-Oct, 09:16 29-Oct, 09:19
controlled, 16km NE of Donetsk) 2-3km SW Heard 3 Explosion Under U	letermined Sr Sr Sr Sr	N/K mall arms mall arms mall arms	29-Oct, 09:16 29-Oct, 09:19
2-3km SW Heard 4 Shot 2-3km SW Heard 2 Shot 2-3km SW Heard 1 Burst 2-3km SW Heard 12 Shot 2-3km SW Heard 15 Shot 2-3km SW Heard 5 Shot 2-3km SW Heard 1 Explosion Under	Sr Sr Sr	mall arms mall arms mall arms	29-Oct, 09:19
2-3km SW Heard 2 Shot 2-3km SW Heard 1 Burst 2-3km SW Heard 12 Shot 2-3km SW Heard 5 Shot 2-3km SW Heard 1 Explosion Under the	Sr Sr Sr	mall arms	
2-3km SW Heard 1 Burst 2-3km SW Heard 12 Shot 2-3km SW Heard 5 Shot 2-3km SW Heard 1 Explosion Under the	Sr Sr	mall arms	29-Oct 09:38
2-3km SW Heard 12 Shot 2-3km SW Heard 5 Shot 2-3km SW Heard 1 Explosion Under the	Sr		۵۶ ۵۵۱, ۵۶.36
2-3km SW Heard 5 Shot 2-3km SW Heard 1 Explosion Under the United States and United St			29-Oct, 09:48
2-3km SW Heard 1 Explosion Under	Sr	mall arms	29-Oct, 09:53
T T T T T T T T T T T T T T T T T T T	21	mall arms	29-Oct, 10:00
2.21m CW II1 1 E1 1 II 1	letermined	N/K	29-Oct, 10:25
	letermined	N/K	29-Oct, 10:33
2-3km SW Heard 1 Explosion Under	letermined	N/K	29-Oct, 10:34
2-3km SW Heard 20 Burst		mall arms and HMG	29-Oct, 10:34
2-3km SW Heard 1 Explosion Under	letermined	N/K	29-Oct, 11:08
2-3km SW Heard 15 Burst	Sr	mall arms	29-Oct, 11:08
1km NW Heard 1 Explosion Under	letermined	N/K	29-Oct, 11:23
2-3km SW Heard 2 Shot	Sr	mall arms	29-Oct, 11:27
2-3km SW Heard 1 Explosion Under	letermined	N/K	29-Oct, 11:28
2-3km NW Heard 1 Explosion Under	letermined	N/K	29-Oct, 12:48
2-3km NW Heard 1 Shot	Sr	mall arms	29-Oct, 12:50
1km NNW of 1-2km NE Heard 4 Explosion Und	determined	N/K	29-Oct, 09:35
Pyshchevyk 1-2km NE Heard 12 Shot	Sr	mall arms	29-Oct, 09:35
	determined	N/K	29-Oct, 09:40
of Mariupol)	determined	N/K	29-Oct, 10:20
non-government- controlled, 29km NE of Mariupol)	determined	N/K	29-Oct, 10:20
Kozatske (non- government- controlled, 36km NE of Mariupol) N/K SW Heard 2 Explosion Und	ndetermined	N/K	29-Oct, 10:31
2.2km SSE Sakhanka 2km NW Heard 5 Burst		HMG	29-Oct, 12:30
(non-government 2km WNW Heard 14 Burst	Sr	mall arms	29-Oct, 12:50
controlled, 24km NE of Mariupol) 2km WNW Heard 7 Shot		mall arms	29-Oct, 12:50
	determined	N/K	29-Oct, 15:10-15:12
	determined	N/K	29-Oct, 15:10-15:12
(government 2-3km E Heard 1 Burst	Sr	mall arms	29-Oct, 15:10-15:12
of Mariupol)	ndetermined	N/K	29-Oct, 15:45
Svitlodarsk 3-4km SE Heard 12 Shot		mall arms	28-Oct, 18:50
(government- 3-4km S Heard 23 Shot	Sr	mall arms	28-Oct, 19:04
controlled, 57km NE 3-4km S Heard 12 Burst		HMG	28-Oct, 19:08

28-Oct, 19:08 of Donetsk) 3-5km S Heard Explosion Undetermined N/K14 28-Oct, 19:09 3-4km S **HMG** Heard Burst 3-4km S Heard Small arms 28-Oct, 19:11 16 Burst 3-4km S Heard 4 Shot Small arms 28-Oct, 19:13 28-Oct, 19:14 3-4km S Heard 8 Burst Small arms 8 28-Oct, 19:16 3-4km S Heard Burst **HMG** 29 3-4km S Heard Burst **HMG** 28-Oct, 19:17-19:19 2 3-4km S Heard Shot Small arms 28-Oct, 19:22 24 3-4km S Heard Burst HMG 28-Oct, 19:23-19:27 5 3-4km S Heard Shot Small arms 28-Oct, 19:33 12 3-4km S Heard Burst Small arms 28-Oct, 19:44 28-Oct, 19:46 4 3-4km S Heard Burst Small arms 3-4km S 8 HMG 28-Oct, 20:06 Heard Burst 3 3-5km S Heard Explosion Undetermined N/K 28-Oct, 20:16-20:17 17 28-Oct, 20:16-20:17 3-4km S Heard Burst **HMG** 28-Oct, 20:19-20:20 37 HMG 3-4km S Heard Burst 3-4km S 5 Burst Small arms 28-Oct, 20:22 Heard 3-5km S Heard 1 Explosion Undetermined N/K 28-Oct, 20:23 28-Oct, 20:24 3-4km S Heard 6 Burst **HMG** 7 28-Oct, 20:25 3-4km S Heard Burst Small arms 7 HMG 28-Oct, 20:27 3-5km S Heard Burst 7 3-4km S Heard Burst HMG 28-Oct, 20:32-20:33 3 5-7km S Heard Explosion Undetermined N/K 28-Oct, 20:36 17 HMG 28-Oct, 20:39 3-5km S Heard Burst 5-7km S Heard N/K 28-Oct, 20:41 1 Undetermined Explosion 5-7km S Heard 7 Burst **HMG** 28-Oct, 20:42 3-5km S Heard 1 Explosion Undetermined N/K 28-Oct, 20:43 3-4km S Heard 3 Burst **HMG** 28-Oct, 20:43 4 28-Oct, 20:44 3-5km S Heard Explosion Undetermined N/K 3 28-Oct, 20:47 3-4km S HMG Heard Burst 5 28-Oct, 20:48-20:49 N/K 3-5km S Undetermined Heard Explosion 1 HMG 28-Oct, 20:50 3-4km S Heard Burst 2 3-5km S Heard Undetermined N/K 28-Oct, 20:51 Explosion 4 28-Oct, 20:52 3-4km S Heard Shot Small arms 2 Undetermined 28-Oct, 20:53 3-5km S Heard Explosion N/K Heard 12 **HMG** 28-Oct, 21:10-21:11 3-5km S Burst 3-5km S Heard 1 Explosion Undetermined N/K 28-Oct, 21:14 2 3-5km S Heard Explosion Undetermined N/K 28-Oct, 21:25 1 28-Oct, 21:27 3-5km S Heard Explosion Undetermined N/K 9 3-5km S Heard **HMG** 28-Oct, 21:28 Burst Heard 1 Explosion Undetermined N/K 28-Oct, 21:29 3km S 12 3-4km S Heard Burst HMG 28-Oct, 21:30-21:31 4 28-Oct, 21:32 3-4km S Heard Burst **HMG** 2 Heard Undetermined N/K 28-Oct, 21:33 3-5km S Explosion 1 N/K 28-Oct, 21:34 3km S Heard Explosion Undetermined 23 3-4km S HMG 28-Oct, 21:34-21:35 Heard Burst 1 28-Oct, 21:37 3km S Heard Explosion Undetermined N/K 27 3-4km S Heard Burst HMG 28-Oct. 21:38-21:39 22 28-Oct, 21:40-21:41 3-4km S Heard Burst **HMG** 3 28-Oct, 21:40-21:41 3km S Heard Explosion Undetermined N/K 3-4km S Heard 15 Burst **HMG** 28-Oct, 21:41 3km S Heard 3 Explosion Undetermined N/K 28-Oct, 21:42 3 N/K 28-Oct, 21:43-21:44 3km S Heard Explosion Undetermined 3-5km S 6 28-Oct, 21:50 Heard Explosion Undetermined N/K 3-5km S Heard 6 Burst HMG 28-Oct, 21:50 3-5km S Heard 1 Explosion Undetermined N/K 28-Oct, 22:00 Explosion 5-7km S Heard 1 Undetermined N/K 28-Oct, 22:04 1 N/K 28-Oct, 22:11 3-5km S Heard Explosion Undetermined 5 3-4km S Heard HMG 28-Oct, 22:12 Burst 1 N/K 28-Oct, 22:19 3-5km S Heard Explosion Undetermined 1 N/K 28-Oct, 22:33 3-5km S Heard Explosion Undetermined 29-Oct, 09:12 3-5km S 6 HMG Heard Burst 3-5km S Heard 2 Explosion Undetermined N/K 29-Oct, 09:12 3km S Heard 3 Burst HMG 29-Oct, 09:16

	4km S	Heard	15	Burst		HMG	29-Oct, 09:17-09:18
	5km S	Heard	13	Explosion	Undetermined	N/K	29-Oct, 09:17-09:18 29-Oct, 09:19
	3km S	Heard	2	Explosion	Undetermined	N/K	29-Oct, 09:24
					Uncountable	HMG and	,
	3km S	Heard		Shot and burst	overlapping	small arms	29-Oct, 09:25-09:27
	4km S	Heard	1	Explosion	Undetermined	N/K	29-Oct, 09:28
	3km S	Heard	1	Explosion	Undetermined	N/K	29-Oct, 09:29
	3km S	Heard	3	Burst		HMG	29-Oct, 09:31
	3km S	Heard	1	Explosion	Undetermined	N/K	29-Oct, 09:33
_	3-5km S	Heard	15	Burst		HMG	29-Oct, 09:56-10:01
	3-5km S	Heard	4	Explosion	Undetermined	N/K	29-Oct, 09:57
	3-5km S	Heard		Shot and burst	Uncountable	HMG and	29-Oct, 10:01-10:02
		77 1	4	E 1 '	overlapping	small arms	
	3km S 3km S	Heard Heard	2	Explosion	Undetermined Undetermined	N/K N/K	29-Oct, 10:05-10:08
	3km S	Heard	9	Explosion Burst	Undetermined	HMG	29-Oct, 10:14 29-Oct, 10:48-10:50
	3km S	Heard	1	Explosion	Undetermined	N/K	29-Oct, 10.48-10.30 29-Oct, 17:32
	3km S	Heard	5	Shot	Ondetermined	Small arms	29-Oct, 17:32 29-Oct, 18:03
	5-7km S	Heard	5	Explosion	Undetermined	N/K	29-Oct, 18:04
<u> </u>	5-7km S	Heard	4	Explosion	Undetermined	N/K	29-Oct, 18:12
_	5km S	Heard	1	Explosion	Undetermined	N/K	29-Oct, 18:17
<u> </u>	5km S	Heard	2	Explosion	Undetermined	N/K	29-Oct, 18:22
2km SW of	Jan 5	Ticura		Expression	Chacterhanica	11/11	27 000, 10.22
Novoselivka Druha							
(government-	3-5km SSE	Heard	1	Explosion	Undetermined	N/K	29-Oct, 07:51
controlled, 23km N of				•			,
Donetsk)							
E edge of Kamianka	3-5km SW	Heard	1	Explosion	Undetermined	N/K	29-Oct, 08:09
(government-	1-2km ESE	Heard	3	Shot		Small arms	29-Oct, 08:17
controlled, 20km N of	3-4km SE	Heard	6	Shot		Small arms	29-Oct, 08:23-08:24
Donetsk)	4-6km SE	Heard	2	Explosion	Undetermined	N/K	29-Oct, 08:25-08:26
_	2-3km SSE	Heard	14	Shot		Small arms	29-Oct, 08:47-08:49
_	2-3km SSE	Heard	8	Shot		Small arms	29-Oct, 09:04-09:05
_	3-5km SSE	Heard	1	Explosion	Undetermined	N/K	29-Oct, 10:23
_	3-5km SSE	Heard	1	Explosion	Undetermined	N/K	29-Oct, 10:27
_	3-5km SSE	Heard	1	Explosion	Undetermined	N/K	29-Oct, 11:11
	2-4km SSE	Heard	1	Explosion	Undetermined	N/K	29-Oct, 11:24
	2km SE	Heard	2	Shot	TT 1 4 1 1	Small arms	29-Oct, 12:24
	3km SSE 3km SE	Heard Heard	1	Explosion	Undetermined Undetermined	N/K N/K	29-Oct, 12:27
	3km SE	Heard	6	Explosion	Undetermined	N/K N/K	29-Oct, 12:50 29-Oct, 12:54-12:55
	3km SE	Heard	2	Explosion Explosion	Undetermined	N/K	29-Oct, 12:34-12:33 29-Oct, 13:00
<u> </u>	3km SE	Heard	2	Explosion	Undetermined	N/K	29-Oct, 13:25
_	3km SE	Heard	2	Shot	Ondetermined	Small arms	29-Oct, 13:25
1.7km S of Luhanske	SKIII SE	Ticura		Bliot		Silian arms	27 000, 13.23
(government-	21	** 1		F 1 .	TT 1	37/77	20.0
controlled, 59km NE	3km E	Heard	1	Explosion	Undetermined	N/K	29-Oct, 09:30
of Donetsk)							
Luhanske	3-5km SW	Heard	14	Burst		HMG	29-Oct, 09:53-10:10
(government-	3-5km SW	Heard	5	Explosion	Undetermined	N/K	29-Oct, 09:53-10:10
controlled, 59km NE	3km SSE	Heard	1	Explosion	Undetermined	N/K	29-Oct, 10:05
of Donetsk)	SKIII BBE	Tieura	•	Expression	Chacterhanica	11/11	27 000, 10.03
NE edge of							
Mykhailivka (non-	2 Alem CCW	Hoond	1	Evaluation	Undetermined	NI/IZ	20 Oct 10:12
government- controlled, 30km NE	3-4km SSW	Heard	1	Explosion	Undetermined	N/K	29-Oct, 10:13
of Donetsk)							
Horlivka (non-							
government-		_					
controlled, 39km NE	5-7km W	Heard	1	Explosion	Undetermined	N/K	29-Oct, 11:55
of Donetsk)							
Panteleimonivka	4-5km NW	Heard	1	Explosion	Undetermined	N/K	29-Oct, 11:23
			12			HMG	29-Oct, 11:29
(non-government-	3-4km NW	Heard	12	Burst		HMO	29-Oct, 11.29
(non-government- controlled, 26km NE of Donetsk)	3-4km NW 3-4km NW	Heard	1	Explosion	Undetermined	N/K	29-Oct, 11:53

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SMM camera in	2-4km SSW	Recorded	15	Projectile	ESE to WNW	N/K	28-Oct, 21:20
Kriakivka	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 22:07
(government-	2-4km SSW	Recorded	2	Explosion	Undetermined	N/K	28-Oct, 22:08
controlled, 38km NW	2-4km SSW	Recorded	2	Explosion	Undetermined	N/K	28-Oct, 22:09
of Luhansk)	2-4km SW	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 22:11
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	28-Oct, 22:40
	2-4km SSW	Recorded	3	Explosion	Undetermined	N/K	28-Oct, 23:40
	2-4km SSW	Recorded	2	Muzzle flash		N/K	29-Oct, 01:58
E edge of Stanytsia Luhanska (government- controlled, 16km NE of Luhansk)	4-5km SSE	Heard	2	Shot	Assessed as outside the disengagement area	Small arms	29-Oct, 00:32
NE outskirts of Dachne (non- government- controlled, 47km W of Luhansk)	1-2km NNW	Heard	6	Burst		Small arms	29-Oct, 09:45-09:46
Shymshynivka (non- government- controlled, 27km SW of Luhansk)	2-3km SSE	Heard	11	Explosion	Assessed as live- fire exercise	N/K	29-Oct, 10:07-10:27
2.4km S of Muratove	3-5km S	Heard	4	Explosion		N/K	29-Oct, 09:57-10:18
(government-	3-5km S	Heard	34	Shot		HMG	29-Oct, 09:57-10:18
controlled, 51km NW of Luhansk)	1-2km S	Heard	4	Shot		Small arms	29-Oct, 09:57-10:18
N outskirts of Zolote- 4/Rodina (government- controlled, 59km W of Luhansk)	1-2km E	Heard	3	Shot	Assessed as outside the disengagement area	Small arms	29-Oct, 10:50-10:55

Map of Donetsk and Luhansk regions²



² 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).