

Table of ceasefire violations as of 13 March 2020¹¹

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera in Avdiivka (government-controlled, 17km N of Donetsk)	3-6km E	Recorded	2	Projectile	In vertical flight	N/K	12-Mar, 19:47
	3-6km E	Recorded	7	Projectile	In vertical flight	N/K	12-Mar, 19:52
	4-6km ENE	Recorded	1	Projectile	In vertical flight	N/K	12-Mar, 21:10
	2-4km ESE	Recorded	1	Muzzle flash		N/K	12-Mar, 23:19
	2-4km ESE	Recorded	1	Projectile	NNE to SSW (subsequent to previous event)	N/K	12-Mar, 23:19
	2-4km ESE	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	12-Mar, 23:19
	3-5km ESE	Recorded	1	Explosion	Undetermined	N/K	13-Mar, 01:20
	2-4km ESE	Recorded	1	Explosion	Airburst	N/K	13-Mar, 17:06
SMM camera in Berezove (government-controlled, 31km SW of Donetsk)	2-5km SE	Recorded	1	Illumination flare	In vertical flight	N/K	12-Mar, 20:43
	2-5km SE	Recorded	2	Illumination flare	In vertical flight	N/K	13-Mar, 00:53
	2-5km SE	Recorded	1	Illumination flare	In vertical flight	N/K	13-Mar, 00:58
SMM camera 2km E of Bohdanivka (government-controlled, 41km SW of Donetsk)	2-4km ESE	Recorded	1	Projectile	SSW to NNE (assessed as inside the disengagement area near Petrivske)	N/K	12-Mar, 19:50
	2-4km SE	Recorded	1	Illumination flare	In vertical flight (assessed as inside the disengagement area near Petrivske)	N/K	12-Mar, 20:43
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	2-5km SE	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 21:31
	3-6km SSE	Recorded	4	Projectile	NNE to SSW	N/K	12-Mar, 21:37
	2-5km SSE	Recorded	1	Projectile	NE to SW	N/K	12-Mar, 21:40
	2-5km SSE	Recorded	4	Projectile	NNE to SSW	N/K	12-Mar, 21:40
	2-5km SSE	Recorded	2	Projectile	NE to SW	N/K	12-Mar, 21:46
	2-5km SE	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 21:55
	2-5km SE	Recorded	2	Projectile	SW to NE	N/K	13-Mar, 01:03
	2-5km SE	Recorded	4	Projectile	WSW to ENE	N/K	13-Mar, 01:03
	2-5km SE	Recorded	3	Projectile	WSW to ENE	N/K	13-Mar, 01:04
	2-5km SSE	Recorded	1	Explosion	Airburst	N/K	13-Mar, 01:15
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	1-2km S	Recorded	1	Projectile	NE to SW	N/K	12-Mar, 19:53

¹¹ The table only includes ceasefire violations directly observed by the SMM patrols or recorded by the SMM cameras 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 technical monitoring officers, 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 technical limitations and/or other considerations. Ceasefire violations recorded by more than one patrol/camera and assessed to be the same are entered only once.

SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk)	3-5km SE	Recorded	4	Projectile	WSW to ENE	N/K	12-Mar, 21:41
	3-5km SE	Recorded	3	Explosion	Impact (subsequent to previous event)	N/K	12-Mar, 21:41
	3-5km SE	Recorded	1	Projectile	WSW to ENE	N/K	12-Mar, 21:42
	3-5km SE	Recorded	1	Projectile	WSW to ENE	N/K	12-Mar, 21:43
	3-5km SE	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	12-Mar, 21:43
SMM camera at entry-exit checkpoint in Hnutove (government-controlled, 84km S of Donetsk)	2-4km ENE	Recorded	3	Projectile	NNE to SSW	N/K	12-Mar, 20:14
	2-4km ENE	Recorded	4	Projectile	NNE to SSW	N/K	12-Mar, 20:17
	2-4km ESE	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 20:31
	1-3km ESE	Recorded	3	Projectile	NNE to SSW (one subsequent to previous event)	N/K	12-Mar, 20:31
	1-3km ESE	Recorded	8	Projectile	NNE to SSW	N/K	12-Mar, 20:32
	1-3km ESE	Recorded	5	Projectile	NNE to SSW	N/K	12-Mar, 20:34
	1-3km ESE	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 20:34
	1-3km ESE	Recorded	2	Projectile	NNE to SSW	N/K	12-Mar, 20:35
	1-3km ESE	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 20:35
	2-4km ENE	Recorded	2	Projectile	NNE to SSW	N/K	12-Mar, 21:37
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	2-4km ENE	Recorded	2	Projectile	NNE to SSW	N/K	12-Mar, 21:40
	1-3km ESE	Recorded	3	Projectile	W to E	N/K	12-Mar, 21:40
	3-5km E	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 19:58
	3-5km E	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 21:00
	1-3km ESE	Recorded	3	Projectile	SE to NW	N/K	12-Mar, 23:01
	1-3km ESE	Recorded	1	Projectile	SE to NW	N/K	12-Mar, 23:17
	1-3km ESE	Recorded	1	Explosion	Undetermined		13-Mar, 00:07
SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)	3-5km E	Recorded	1	Projectile	NW to SE	N/K	13-Mar, 18:19
	2-4km NNE	Recorded	1	Projectile	WSW to ENE	N/K	12-Mar, 22:08
	2-4km N	Recorded	1	Projectile	WSW to ENE	N/K	12-Mar, 22:17
	3-6km N	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 22:17
	3-6km N	Recorded	1	Muzzle flash		N/K	12-Mar, 22:18
	3-6km N	Recorded	3	Projectile	WSW to ENE (one subsequent to previous event)	N/K	12-Mar, 22:18
	3-6km N	Recorded	6	Projectile	WSW to ENE	N/K	12-Mar, 22:18
	3-6km NE	Recorded	3	Explosion	Impact (subsequent to previous event)	N/K	12-Mar, 22:18-22:19
	3-6km N	Recorded	2	Muzzle flash		N/K	12-Mar, 22:19
	3-6km N	Recorded	6	Projectile	WSW to ENE	N/K	12-Mar, 22:19
	3-6km N	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 22:19
	3-6km N	Recorded	7	Projectile	WSW to ENE	N/K	12-Mar, 22:19
	2-5km N	Recorded	1	Muzzle flash		N/K	12-Mar, 22:20
	2-4km N	Recorded	4	Projectile	WSW to ENE	N/K	12-Mar, 22:20
	2-5km N	Recorded	5	Projectile	WSW to ENE	N/K	12-Mar, 22:20
	2-5km NNE	Recorded	1	Explosion	Impact	N/K	12-Mar, 22:20
	2-5km NNE	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 22:20
	2-5km NNW	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 22:20
	2-4km N	Recorded	2	Muzzle flash		N/K	12-Mar, 22:21
	2-4km N	Recorded	5	Projectile	WSW to ENE	N/K	12-Mar, 22:21
2-4km N	Recorded	2	Projectile	W to E	N/K	12-Mar, 22:21	
2-4km NNE	Recorded	1	Explosion	Impact (subsequent to	N/K	12-Mar, 22:21	

					previous event)		
	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 22:21
	2-4km NNE	Recorded	1	Explosion	Impact	N/K	12-Mar, 22:22
	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 22:22
	2-4km W	Recorded	1	Muzzle flash		N/K	12-Mar, 22:22
	2-4km N	Recorded	6	Projectile	W to E (one subsequent to previous event)	N/K	12-Mar, 22:22
	2-4km N	Recorded	2	Projectile	W to E	N/K	12-Mar, 22:23
	2-4km N	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 22:23
	2-4km N	Recorded	1	Muzzle flash		N/K	12-Mar, 22:23
	2-4km N	Recorded	1	Projectile	WSW to ENE	N/K	12-Mar, 22:23
	2-4km N	Recorded	1	Projectile	W to E	N/K	12-Mar, 22:24
	2-4km N	Recorded	7	Projectile	WSW to ENE	N/K	12-Mar, 22:24
	2-4km N	Recorded	30	Projectile	W to E	N/K	12-Mar, 22:24
	2-4km N	Recorded	1	Muzzle flash		N/K	12-Mar, 22:24
	2-4km N	Recorded	8	Projectile	W to E	N/K	12-Mar, 22:25
	2-4km N	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 22:25
	2-4km N	Recorded	9	Projectile	W to E	N/K	12-Mar, 22:26
	2-4km NNE	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	12-Mar, 22:26
	2-4km N	Recorded	16	Projectile	W to E	N/K	12-Mar, 22:27
	2-4km N	Recorded	1	Muzzle flash		N/K	12-Mar, 22:27
	2-4km N	Recorded	1	Projectile	WSW to ENE (subsequent to previous event)	N/K	12-Mar, 22:27
	2-4km N	Recorded	16	Projectile	W to E	N/K	12-Mar, 22:28
	2-4km NNE	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	12-Mar, 22:28
	2-4km N	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 22:28
	2-4km N	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	12-Mar, 22:28
	2-4km NNW	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 22:29
	2-4km N	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 22:30
	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 22:30
	2-4km N	Recorded	1	Projectile	NW to SE	N/K	12-Mar, 22:31
	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 22:32
	2-4km NNW	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 22:32
	2-4km NNE	Recorded	2	Explosion	Undetermined	N/K	12-Mar, 22:34
	2-4km N	Recorded	5	Projectile	W to E	N/K	12-Mar, 22:34
	2-4km N	Recorded	1	Projectile	WSW to ENE	N/K	12-Mar, 22:35
	2-4km N	Recorded	1	Projectile	WSW to ENE	N/K	12-Mar, 22:36
	2-4km N	Recorded	1	Projectile	WSW to ENE	N/K	12-Mar, 22:37
	2-4km N	Recorded	1	Projectile	W to E	N/K	12-Mar, 22:38
	2-4km NNW	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 22:39
	2-4km NNE	Recorded	1	Muzzle flash		N/K	12-Mar, 22:39
	2-4km N	Recorded	3	Projectile	W to E	N/K	12-Mar, 22:39
	2-4km NNW	Recorded	2	Explosion	Undetermined	N/K	12-Mar, 22:40
	2-4km N	Recorded	2	Projectile	W to E	N/K	12-Mar, 22:40
	2-4km N	Recorded	1	Projectile	WSW to ENE	N/K	12-Mar, 22:40
SMM camera at Oktiabr mine (non-	4-6km W	Recorded	1	Muzzle flash		N/K	12-Mar, 19:03
	3-5km W	Recorded	2	Explosion	Undetermined	N/K	12-Mar, 19:24
	3-6km W	Recorded	1	Projectile	NNE to SSW	N/K	12-Mar, 19:28

government-controlled, 9km NW of Donetsk city centre)	3-6km WNW	Recorded	2	Projectile	S to N	N/K	12-Mar, 19:29
	1-3km WNW	Recorded	2	Projectile	NW to SE	N/K	12-Mar, 19:31
	2-4km WNW	Recorded	4	Projectile	S to N	N/K	12-Mar, 19:31
	2-4km WNW	Recorded	1	Muzzle flash		N/K	12-Mar, 19:31
	0.5-1km WSW	Recorded	1	Explosion	Impact	N/K	12-Mar, 19:31
	3-5km W	Recorded	2	Projectile	N to S	N/K	12-Mar, 19:32
	3-5km W	Recorded	5	Projectile	S to N	N/K	12-Mar, 19:32
	3-5km W	Recorded	5	Projectile	S to N	N/K	12-Mar, 19:33
	3-5km W	Recorded	1	Muzzle flash	W to E	N/K	12-Mar, 19:33
	3-6km WSW	Recorded	3	Projectile	SSE to NNW	N/K	12-Mar, 19:34
	3-6km WNW	Recorded	1	Projectile	NNE to SSW	N/K	12-Mar, 19:35
	3-6km WSW	Recorded	2	Explosion	Undetermined	N/K	12-Mar, 19:35
	3-6km WSW	Recorded	7	Projectile	SSE to NNW	N/K	12-Mar, 19:35
	3-6km W	Recorded	2	Explosion	Airburst	N/K	12-Mar, 19:35
	3-6km W	Recorded	1	Projectile	NNW to SSE	N/K	12-Mar, 19:36
	3-6km W	Recorded	1	Projectile	NNE to SSW	N/K	12-Mar, 19:37
	3-6km WNW	Recorded	3	Projectile	S to N	N/K	12-Mar, 19:38
	3-6km WNW	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 19:38
	3-6km WNW	Recorded	7	Projectile	S to N	N/K	12-Mar, 19:39
	3-6km W	Recorded	5	Projectile	S to N	N/K	12-Mar, 19:39
	3-6km W	Recorded	3	Muzzle flash		N/K	12-Mar, 19:39
	3-6km W	Recorded	8	Projectile	S to N	N/K	12-Mar, 19:40
	2-4km WNW	Recorded	2	Projectile	S to N	N/K	12-Mar, 19:41
	2-4km WNW	Recorded	2	Explosion	Undetermined	N/K	12-Mar, 19:41
	2-4km W	Recorded	4	Projectile	S to N	N/K	12-Mar, 19:42
	2-4km W	Recorded	4	Explosion	Undetermined	N/K	12-Mar, 19:42
	2-4km W	Recorded	3	Burst	S to N	N/K	12-Mar, 19:42
	2-4km WNW	Recorded	2	Projectile	S to N	N/K	12-Mar, 19:43
	3-5km W	Recorded	1	Illumination flare	In vertical flight	N/K	12-Mar, 19:47
	2-4km W	Recorded	1	Illumination flare	N to S	N/K	12-Mar, 19:49
	2-4km W	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 19:54
	2-4km W	Recorded	1	Muzzle flash		N/K	12-Mar, 19:59
	2-4km W	Recorded	1	Projectile	SE to NW	N/K	12-Mar, 19:59
	2-4km W	Recorded	1	Illumination flare	In vertical flight	N/K	12-Mar, 20:01
	3-4km WNW	Recorded	5	Projectile	S to N	N/K	12-Mar, 20:09
	3-4km WNW	Recorded	1	Projectile	SSE to NNW	N/K	12-Mar, 20:09
	3-4km W	Recorded	1	Projectile	SSE to NNW	N/K	12-Mar, 20:13
	3-4km W	Recorded	1	Muzzle flash		N/K	12-Mar, 20:13
	3-4km W	Recorded	2	Muzzle flash		N/K	12-Mar, 20:14
	4-5km NE	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 23:04
	3-4km NE	Recorded	1	Projectile	NNE to SSW	N/K	12-Mar, 23:19
	3-4km NE	Recorded	2	Explosion	Undetermined (one subsequent to previous event)	N/K	12-Mar, 23:19
	4-5km NE	Recorded	1	Burst	SE to NW	N/K	12-Mar, 23:46
4-5km NE	Recorded	1	Explosion	Undetermined	N/K	13-Mar, 04:15	
SMM camera 1km SW of Shyrokyne (government-controlled, 100km S of Donetsk)	2-5km N	Recorded	4	Projectile	E to W	N/K	12-Mar, 19:05
	2-5km N	Recorded	4	Projectile	E to W	N/K	12-Mar, 19:11
	3-5km N	Recorded	2	Projectile	E to W	N/K	12-Mar, 19:26
	3-5km N	Recorded	5	Projectile	E to W	N/K	12-Mar, 19:27
	3-5km N	Recorded	1	Projectile	E to W	N/K	12-Mar, 19:28
	3-5km N	Recorded	2	Projectile	E to W	N/K	12-Mar, 19:31
	2-5km N	Recorded	4	Explosion	Undetermined	N/K	12-Mar, 19:48
	2-5km N	Recorded	2	Projectile	E to W	N/K	12-Mar, 19:48
	2-5km N	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 19:49
	4-5km N	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 21:03

	4-5km N	Recorded	2	Projectile	E to W	N/K	12-Mar, 21:11
	4-5km N	Recorded	1	Projectile	W to E	N/K	12-Mar, 21:41
	4-5km N	Recorded	1	Projectile	W to E	N/K	12-Mar, 21:42
	4-5km N	Recorded	1	Projectile	W to E	N/K	12-Mar, 21:42
	4-5km N	Recorded	2	Projectile	W to E	N/K	12-Mar, 21:43
	4-5km N	Recorded	1	Explosion	Subsequent to previous event	N/K	12-Mar, 21:43
	4-5km N	Recorded	3	Projectile	E to W	N/K	12-Mar, 21:44
	4-5km N	Recorded	2	Projectile	E to W	N/K	12-Mar, 21:47
	4-5km N	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 21:48
	4-5km N	Recorded	8	Projectile	E to W	N/K	12-Mar, 22:17
	4-5km N	Recorded	2	Projectile	E to W	N/K	12-Mar, 22:27
	4-5km N	Recorded	8	Projectile	E to W	N/K	12-Mar, 22:28
	4-5km NNE	Recorded	5	Projectile	ESE to WNW	N/K	12-Mar, 22:51
	4-5km NNE	Recorded	8	Projectile	ESE to WNW	N/K	12-Mar, 22:52
	4-5km N	Recorded	7	Projectile	E to W	N/K	12-Mar, 23:12
	4-5km N	Recorded	10	Projectile	E to W	N/K	12-Mar, 23:14
	4-5km N	Recorded	6	Projectile	E to W	N/K	12-Mar, 23:16
	4-5km NNE	Recorded	4	Projectile	W to E	N/K	12-Mar, 23:16
	4-5km N	Recorded	12	Projectile	E to W	N/K	12-Mar, 23:17
	4-5km N	Recorded	1	Muzzle flash		N/K	12-Mar, 23:17
	4-5km N	Recorded	9	Projectile	E to W	N/K	12-Mar, 23:18
	4-5km NNE	Recorded	1	Projectile	ESE to WNW	N/K	12-Mar, 23:18
	4-5km N	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 23:20
	4-5km NNE	Recorded	6	Projectile	ESE to WNW	N/K	12-Mar, 23:23
	4-5km N	Recorded	10	Projectile	E to W	N/K	12-Mar, 23:25
	4-5km N	Recorded	2	Projectile	ESE to WNW	N/K	12-Mar, 23:44
	4-5km NNE	Recorded	19	Projectile	ESE to WNW	N/K	12-Mar, 23:44
	4-5km NNE	Recorded	1	Muzzle flash		N/K	12-Mar, 23:44
	4-5km NNE	Recorded	1	Projectile	W to E	N/K	12-Mar, 23:49
	4-5km NNE	Recorded	1	Burst	E to W	N/K	12-Mar, 23:52
	4-5km NNE	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 23:57
	4-5km NNE	Recorded	1	Projectile	E to W	N/K	12-Mar, 23:57
	4-5km N	Recorded	11	Projectile	E to W	N/K	13-Mar, 00:05
	4-5km N	Recorded	9	Projectile	E to W	N/K	13-Mar, 00:07
	4-5km N	Recorded	3	Projectile	E to W	N/K	13-Mar, 00:08
	4-5km N	Recorded	9	Projectile	E to W	N/K	13-Mar, 00:09
	4-5km NNE	Recorded	2	Projectile	ESE to WNW	N/K	13-Mar, 00:18
	5-7km N	Recorded	2	Projectile	E to W	N/K	13-Mar, 18:21
SMM camera in Svitlodarsk (government-controlled, 57km NE of Donetsk)	2-4km ENE	Recorded	1	Projectile	NW to SE	N/K	12-Mar, 20:39
	2-4km ENE	Recorded	1	Projectile	NW to SE	N/K	12-Mar, 20:41
	2-4km ENE	Recorded	1	Projectile	NW to SE	N/K	12-Mar, 20:42
	2-4km ENE	Recorded	2	Projectile	NW to SE	N/K	12-Mar, 20:50
	3-5km SW	Recorded	1	Explosion	Undetermined		13-Mar, 18:44
800m NNE of Debaltseve (non-government-controlled, 58km NE of Donetsk)	8-10km NW	Heard	27	Explosion	Undetermined	N/K	12-Mar, 20:15-21:10
About 2km S of Avdiivka (government-controlled, 17km N of Donetsk)	2-4km E	Heard	1	Explosion	Undetermined	N/K	13-Mar, 11:15
	2-4km E	Heard	1	Explosion	Undetermined	N/K	13-Mar, 11:21
	2-4km E	Heard	1	Explosion	Undetermined	N/K	13-Mar, 11:28
1.7km E of Avdiivka (government-controlled, 17km N of Donetsk)	2-4km E	Heard	2	Explosion	Undetermined	N/K	13-Mar, 12:33
	2-4km E	Heard	2	Explosion	Undetermined	N/K	13-Mar, 12:36
About 1km NW of the railway station of	2-3km SW	Heard	42	Explosion	Undetermined	N/K	13-Mar, 09:12
	2-4km SW	Heard	23	Explosion	Undetermined	N/K	13-Mar, 09:25

Yasynuvata (non-government-controlled, 16km NE of Donetsk)	2-3km SW	Heard	2	Explosion	Undetermined	N/K	13-Mar, 09:55
	2-4km SW	Heard	8	Explosion	Undetermined	N/K	13-Mar, 10:05
	2-3km SW	Heard	15	Explosion	Undetermined	N/K	13-Mar, 10:20
About 1.5km NW of Yasynuvata (non-government-controlled, 16km NE of Donetsk)	1-2km W	Heard	1	Shot		Small arms	13-Mar, 08:55
	1-2km W	Heard	2	Burst		Small arms	13-Mar, 08:55
About 700m SE of Kruta Balka (non-government-controlled, 16km N of Donetsk)	3-4km SSW	Heard	2	Explosion	Undetermined	N/K	13-Mar, 10:56
Donetsk central railway station (non-government-controlled, 6km NW of Donetsk)	1-2km NW	Heard	43	Explosion	Undetermined	N/K	13-Mar, 09:18-09:33
About 3km SW of Donetsk central railway station (non-government-controlled, 6km NW of Donetsk)	2-3km W	Heard	13	Explosion	Undetermined	N/K	13-Mar, 10:06-10:36
	2-3km W	Heard	11	Explosion	Undetermined	N/K	13-Mar, 10:43-11:02
About 1km S of Olenivka (non-government-controlled, 23km SW of Donetsk)	6-8km N	Heard	8	Explosion	Undetermined	N/K	13-Mar, 13:43-14:00
Staromykhailivka (non-government-controlled, 15km W of Donetsk)	5-6km S	Heard	1	Explosion	Undetermined	N/K	13-Mar, 10:03
	2-3km SW	Heard	10	Burst		Small arms	13-Mar, 10:12
	2-3km SW	Heard	5	Shot		Small arms	13-Mar, 10:12
	1-2km SW	Heard	8	Burst		Anti-aircraft gun (ZU-23, 23mm)	13-Mar, 10:17-10:23
	1-2km SW	Heard	3	Explosion	Undetermined	N/K	13-Mar, 10:17-10:23
	1-2km SW	Heard	12	Shot	Undetermined	Cannon (30mm)	13-Mar, 10:20-10:23
	1-2km SW	Heard	10	Burst		Anti-aircraft gun (ZU-23, 23mm)	13-Mar, 10:25-10:26
	1-2km SW	Heard	4	Explosion	Impact	N/K	13-Mar, 10:25-10:27
	1-2km SW	Heard	7	Burst	Outgoing	Anti-aircraft gun (ZU-23, 23mm)	13-Mar, 10:28
	1-2km SW	Heard	26	Shot	Outgoing	Cannon (30mm)	13-Mar, 10:26-10:29
	1-2km SW	Heard	1	Explosion	Impact	N/K	13-Mar, 10:30
	1-2km SW	Heard	1	Shot	Outgoing	Cannon (30mm)	13-Mar, 10:30
	1-2km SW	Heard	1	Explosion	Impact	N/K	13-Mar, 10:37
	1-2km SW	Heard	1	Explosion	Impact	N/K	13-Mar, 10:48-10:55
1-2km SW	Heard	3	Burst		HMG	13-Mar, 10:48-10:55	

	1-2km SW	Heard	2	Shot		Small arms	13-Mar, 10:48-10:55
	1-2km W	Heard	13	Burst		HMG	13-Mar, 10:48-10:55
	1-2km W	Heard	11	Shot		Small arms	13-Mar, 10:48-10:55
About 2.5km SE of Spartak (non-government-controlled, 9km north of Donetsk)	4-5km NW	Heard	11	Explosion	Undetermined	N/K	13-Mar, 13:35-14:03
1.8km N of Petrivske (non-government-controlled, 41km S of Donetsk)	2km S	Heard	15	Shot	Assessed as outside the disengagement area	HMG	13-Mar, 12:15-12:18
	2km S	Heard	5	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	13-Mar, 12:38-12:40
	2km S	Heard	28	Shot	Assessed as outside the disengagement area	HMG	13-Mar, 12:38-12:40
1.8km E of Bohdanivka (government-controlled, 41km SW of Donetsk)	10-12km NNW	Heard	3	Explosion	Undetermined	N/K	13-Mar, 09:18-09:23
	10-12km NNW	Heard	1	Explosion	Undetermined	N/K	13-Mar, 09:49
1.4km E of Bohdanivka (government-controlled, 41km SW of Donetsk)	10-12km NW	Heard	2	Explosion	Undetermined	N/K	13-Mar, 10:38-10:41
	10-12km NW	Heard	2	Explosion	Undetermined	N/K	13-Mar, 10:51-10:52
	10-12km NNE	Heard	4	Explosion	Undetermined	N/K	13-Mar, 13:24-13:26
Babakh-Tarama (government-controlled, 134km SW of Donetsk)	3-4km SW	Heard	4	Explosion	Undetermined (assessed as live-fire training exercise)	N/K	13-Mar, 10:23
SSE part of Babakh-Tarama (government-controlled, 134km SW of Donetsk)	3-4km W	Heard	4	Explosion	Undetermined (assessed as live-fire training exercise)	N/K	13-Mar, 10:34-10:35
	3-4km W	Heard	3	Explosion	Undetermined (assessed as live-fire training exercise)	N/K	13-Mar, 10:56-11:04
Zaichenko (non-government-controlled, 93km S of Donetsk)	2-3km SSW	Heard	3	Explosion	Undetermined	N/K	13-Mar, 11:30
Chermalyk (government-controlled, 77km S of Donetsk)	2.5km S	Heard	9	Burst	Assessed as aimed at the mini-UAV	Small arms	13-Mar, 11:38
Horlivka (non-government-controlled, 39km NE of Donetsk)	4-5km W	Heard	3	Burst		HMG	12-Mar, 19:19
	4-5km W	Heard	2	Explosion	Undetermined	N/K	12-Mar, 19:47
	4-5km W	Heard	32	Burst		HMG	12-Mar, 19:47-19:49
	4-5km W	Heard	2	Explosion	Undetermined	N/K	12-Mar, 19:53
	3-4km W	Heard	1	Explosion	Undetermined	N/K	12-Mar, 19:53

	4-5km W	Heard	3	Burst		HMG	12-Mar, 19:53
	5-7km W	Heard	2	Explosion	Undetermined	N/K	12-Mar, 19:56
	4-5km W	Heard	3	Burst		HMG	12-Mar, 19:59
	5-6km W	Heard	1	Explosion	Undetermined	N/K	12-Mar, 20:10
	4-5km W	Heard	1	Explosion	Undetermined	N/K	12-Mar, 21:21
	4-5km W	Heard	1	Explosion	Undetermined	N/K	12-Mar, 22:27
	4-5km W	Heard	2	Burst		HMG	13-Mar, 02:11
	5-6km W	Heard	1	Explosion	Undetermined	N/K	13-Mar, 06:31
	1-2km SW	Heard	67	Burst	Assessed as live-fire training exercise	Small arms	13-Mar, 09:13-09:17
	1-2km SW	Heard	12	Burst	Assessed as live-fire training exercise	Small arms	13-Mar, 09:21
	1-2km SW	Heard	24	Shot	Assessed as live-fire training exercise	Small arms	13-Mar, 09:25
	1-2km SW	Heard	54	Burst	Assessed as live-fire training exercise	Small arms	13-Mar, 09:34-10:09
	1-2km SW	Heard	11	Shot	Assessed as live-fire training exercise	Small arms	13-Mar, 09:34-10:09
	6-8km SW	Heard	9	Explosion	Undetermined	N/K	13-Mar, 10:15-12:07
W edge of Horlivka (non-government-controlled, 39km NE of Donetsk)	4-6km SW	Heard	1	Explosion	Undetermined	N/K	13-Mar, 10:56
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	5-7km NW	Heard	2	Explosion	Undetermined	N/K	13-Mar, 10:15
	5-7km NW	Heard	1	Explosion	Undetermined	N/K	13-Mar, 10:44
	5-7km NW	Heard	1	Explosion	Undetermined	N/K	13-Mar, 10:55
	5-7km NW	Heard	2	Explosion	Undetermined	N/K	13-Mar, 12:26
	5-7km NW	Heard	3	Explosion	Undetermined	N/K	13-Mar, 12:32
	5-7km NW	Heard	2	Explosion	Undetermined	N/K	13-Mar, 12:52
	5-7km NW	Heard	2	Explosion	Undetermined	N/K	13-Mar, 13:10
Svitlodarsk (government-controlled, 57km NE of Donetsk)	3-5km SE	Heard	1	Explosion	Undetermined	N/K	12-Mar, 18:36
	1-3km SE	Heard	13	Shot		Small arms	12-Mar, 18:38
	3-5km S	Heard	3	Burst		HMG	12-Mar, 18:47
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	12-Mar, 18:50
	2-4km S	Heard	2	Explosion	Undetermined	N/K	12-Mar, 19:19
	3-5km SE	Heard	2	Burst		HMG	12-Mar, 19:27
	3-5km SE	Heard	1	Burst		HMG	12-Mar, 19:31
	2-4km SE	Heard	1	Explosion	Undetermined	N/K	12-Mar, 20:14
	3-5km SE	Heard	2	Burst		HMG	12-Mar, 20:50
	2-4km SE	Heard	1	Explosion	Undetermined	N/K	12-Mar, 20:50
	3-5km SE	Heard	1	Burst		HMG	12-Mar, 20:54
	3-5km S	Heard	1	Burst		HMG	12-Mar, 20:56
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	12-Mar, 20:56
	2-4km SE	Heard	1	Explosion	Undetermined	N/K	12-Mar, 21:03
	2-4km SE	Heard	2	Explosion	Undetermined	N/K	12-Mar, 21:07
	3-5km SE	Heard	3	Burst		HMG	12-Mar, 21:08
	2-4km SE	Heard	3	Explosion	Undetermined	N/K	12-Mar, 21:17
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	12-Mar, 21:20
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	12-Mar, 21:27
	3-5km S	Heard	3	Burst		HMG	12-Mar, 21:29

	1-3km SE	Heard	2	Shot		Small arms	12-Mar, 22:05
SMM camera in Kriakivka (government-controlled, 38km NW of Luhansk)	2-4km SW	Recorded	3	Explosion	Undetermined	N/K	12-Mar, 20:14
	2-4km SW	Recorded	3	Projectile	WNW to ESE	N/K	12-Mar, 20:23
	2-4km SW	Recorded	3	Projectile	WNW to ESE	N/K	12-Mar, 20:24
	2-4km SW	Recorded	3	Projectile	WNW to ESE	N/K	12-Mar, 20:27
	2-4km SW	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 20:27
	2-4km SW	Recorded	6	Projectile	WNW to ESE	N/K	12-Mar, 20:28
	2-4km SW	Recorded	18	Projectile	WNW to ESE	N/K	12-Mar, 20:29
	2-4km SW	Recorded	1	Projectile	WNW to ESE	N/K	12-Mar, 20:30
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	12-Mar, 20:32
	2-4km SSW	Recorded	4	Projectile	WNW to ESE	N/K	12-Mar, 20:37
	2-4km SSW	Recorded	7	Projectile	WNW to ESE	N/K	12-Mar, 20:38
	2-4km SSW	Recorded	1	Projectile	WNW to ESE	N/K	12-Mar, 20:41
	2-4km SSW	Recorded	16	Projectile	WNW to ESE	N/K	12-Mar, 20:46
	2-4km SSW	Recorded	2	Projectile	WNW to ESE	N/K	12-Mar, 20:47
	SMM camera in Zolote (government-controlled, 60km W of Luhansk)	2.3-4km E	Recorded	6	Explosion	Undetermined (assessed as outside the disengagement area)	N/K
2.5-4km E		Recorded	5	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	12-Mar, 20:22
2.5-4km E		Recorded	2	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	12-Mar, 20:24
1.5-3km E		Recorded	3	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	12-Mar, 20:26
1.5-3km E		Recorded	2	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	12-Mar, 20:36
1.5-3km E		Recorded	1	Muzzle flash	Assessed as outside the disengagement area	N/K	12-Mar, 20:36
1.5-3km E		Recorded	1	Projectile	N to S (subsequent to previous event; assessed as outside the disengagement area)	N/K	12-Mar, 20:36
2-4km E		Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	13-Mar, 18:08
3-5km E		Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	13-Mar, 18:09
2-4km E		Recorded	1	Explosion	Undetermined (assessed as outside the	N/K	13-Mar, 18:13

					disengagement area)		
	3-5km E	Recorded	1	Projectile	N to S (assessed as outside of the disengagement area)	N/K	13-Mar, 18:14
	3-5km E	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	13-Mar, 18:20
	3-5km E	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	13-Mar, 18:22
	4-6km E	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	13-Mar, 18:39
Kadiivka (formerly Stakhanov, non-government-controlled, 50km W of Luhansk)	500-600m NW	Heard	7	Burst		HMG	12-Mar, 21:40
About 1km N of Novohryhorivka (non-government-controlled, 33km W of Luhansk)	10-15km N	Heard	7	Explosion	Undetermined	N/K	13-Mar, 09:55-09:58
S edge of Khoroshe (non-government-controlled, 36km W of Luhansk)	1-1.5km ESE	Heard	20	Shot	Assessed as aimed at the mini-UAV	Small arms	13-Mar, 11:21
N edge of Popasna (government-controlled, 69km W of Luhansk)	2-3km NW	Heard	1	Explosion	Undetermined	N/K	13-Mar, 11:40
S edge of disengagement area near Zolote (non-government-controlled, 60km W of Luhansk)	6-8km SW	Heard	1	Explosion	Undetermined	N/K	13-Mar, 11:44
Trokhizbenka (government-controlled, 32km NW of Luhansk)	8-10km WSW	Heard	1	Explosion	Undetermined	N/K	13-Mar, 11:45