

**Table of ceasefire violations as of 12 May 2019<sup>1</sup>**

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera in Avdiivka (government-controlled, 17km N of Donetsk)	2-4km SE	Recorded	1	Muzzle flash		N/K	10-May, 23:30
	2-4km SE	Recorded	1	Explosion	Undetermined	N/K	10-May, 23:30
	2-4km SE	Recorded	2	Explosion		N/K	10-May, 23:30
	2-4km SE	Recorded	6	Explosion	Undetermined	N/K	10-May, 23:31
	2-4km SE	Recorded	6	Explosion	Undetermined	N/K	10-May, 23:31
SMM camera in Chermalyk (government-controlled, 31km NE of Mariupol)	4-6km S	Recorded	1	Projectile	WSW to ENE	N/K	10-May, 20:53
	4-6km SSE	Recorded	10	Projectile	WSW to ENE	N/K	10-May, 21:59
	4-6km SSE	Recorded	11	Projectile	WSW to ENE	N/K	10-May, 22:00
	4-6km SSE	Recorded	2	Projectile	ENE to WSW	N/K	10-May, 22:00
	4-6km SE	Recorded	2	Projectile	ENE to WSW	N/K	10-May, 22:01
	4-6km SE	Recorded	2	Projectile	WSW to ENE	N/K	10-May, 22:04
	2-3km S	Recorded	2	Projectile	WSW to ENE	N/K	10-May, 22:10
	4-6km S	Recorded	6	Projectile	WSW to ENE	N/K	10-May, 22:37
	2-3km S	Recorded	2	Projectile	WSW to ENE	N/K	10-May, 23:09
	2-3km SE	Recorded	2	Projectile	ENE to WSW	N/K	10-May, 23:27
	2-3km S	Recorded	3	Projectile	WSW to ENE	N/K	11-May, 00:10
	4-6km SSE	Recorded	2	Projectile	ENE to WSW	N/K	11-May, 01:17
	4-6km SSE	Recorded	3	Projectile	WSW to ENE	N/K	11-May, 01:17
	4-6km S	Recorded	1	Projectile	WSW to ENE	N/K	11-May, 01:27
	1-2km S	Recorded	1	Projectile	WSW to ENE	N/K	11-May, 01:44
	2-3km SSE	Recorded	1	Projectile	ENE to WSW	N/K	11-May, 03:33
	2-3km SSE	Recorded	1	Projectile	WSW to ENE	N/K	11-May, 03:33
	3.5-5km SE	Recorded	1	Explosion	Impact	N/K	11-May, 11:33
	3.5-5km SE	Recorded	1	Explosion	Impact	N/K	11-May, 11:48
	SMM camera at Donetsk Filtration Station (15km N of Donetsk)	0.5-0.8km S	Recorded	1	Projectile	WNW to ESE	N/K
0.5-0.8km S		Recorded	1	Explosion	Undetermined	N/K	10-May, 22:31
1-2km SSE		Recorded	1	Explosion	Undetermined	N/K	10-May, 23:29
1-2km SSW		Recorded	1	Muzzle flash		N/K	10-May, 23:30
1-2km SSW		Recorded	3	Explosion	Undetermined	N/K	10-May, 23:30
1-2km SSW		Recorded	1	Explosion	Undetermined	N/K	10-May, 23:30
1-2km SSE		Recorded	1	Explosion	Airburst	N/K	10-May, 23:31
1-2km SSE		Recorded	1	Explosion	Undetermined	N/K	10-May, 23:31
1-3km SSW		Recorded	5	Explosion	Undetermined	N/K	10-May, 23:31
1-2km SSW		Recorded	1	Muzzle flash		N/K	10-May, 23:31
0.5-0.8km SSW		Recorded	5	Projectile	NW to SE	N/K	11-May, 00:01
1-2km SSW		Recorded	8	Projectile	NNW to SSE	N/K	11-May, 00:35
1-2km SSW		Recorded	1	Projectile	WNW to ESE	N/K	11-May, 00:37
1-2km SSW		Recorded	1	Projectile	WNW to ESE	N/K	11-May, 00:52
1-2km SSW		Recorded	1	Projectile	WNW to ESE	N/K	11-May, 02:09
1-2km SSW		Recorded	1	Projectile	NNW to SSE	N/K	11-May, 03:58
1-2km SSW		Recorded	1	Projectile	WNW to ESE	N/K	11-May, 03:58
1-3km SSW		Recorded	1	Projectile	NNW to SSE	N/K	11-May, 03:59
0.5-1km SSW		Recorded	1	Explosion	Airburst	N/K	11-May, 18:17
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)		2-4km E	Recorded	1	Illumination flare	In vertical flight	N/K
	2-4km E	Recorded	1	Illumination flare	In vertical flight	N/K	10-May, 21:09
	2-4km E	Recorded	1	Illumination flare	In vertical flight	N/K	10-May, 21:13
	3-5km E	Recorded	1	Explosion	Undetermined	N/K	10-May, 21:21

<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.

	3-5km E	Recorded	8	Projectile	In vertical flight	N/K	10-May, 21:38
	3-5km E	Recorded	6	Projectile	In vertical flight	N/K	10-May, 21:39
	3-5km E	Recorded	1	Projectile	In vertical flight	N/K	10-May, 21:40
	3-5km E	Recorded	3	Projectile	S to N	N/K	11-May, 00:39
SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)	2-4km N	Recorded	1	Explosion	Undetermined	N/K	10-May, 22:21
	2-4km N	Recorded	1	Illumination flare	In vertical flight	N/K	10-May, 22:39
	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	11-May, 00:25
SMM camera at Oktiabr mine (non-government-controlled, 9km NW of Donetsk city centre)	2-4km NE	Recorded	1	Explosion	Undetermined	N/K	10-May, 23:30
	2-4km NE	Recorded	6	Explosion	Undetermined	N/K	10-May, 23:31
SMM camera at entry-exit checkpoint in Pyshevyk (government-controlled, 25km NE of Mariupol)	2-3km S	Recorded	27	Projectile	In vertical flight	N/K	10-May, 21:35
	2-3km S	Recorded	1	Explosion	Airburst	N/K	10-May, 21:38
	2-3km S	Recorded	4	Projectile	W to E	N/K	10-May, 21:47
	3-4km S	Recorded	5	Projectile	W to E	N/K	10-May, 22:12
	3-4km S	Recorded	2	Projectile	E to W	N/K	10-May, 22:13
	2-3km S	Recorded	1	Projectile	W to E	N/K	10-May, 22:46
	2-3km S	Recorded	1	Projectile	In vertical flight	N/K	10-May, 22:48
	2-3km S	Recorded	4	Projectile	In vertical flight	N/K	10-May, 22:49
	3-4km S	Recorded	5	Projectile	E to W	N/K	11-May, 00:17
	3-4km S	Recorded	6	Projectile	In vertical flight	N/K	11-May, 00:18
	2-3km S	Recorded	2	Projectile	E to W	N/K	11-May, 00:46
	3-4km S	Recorded	4	Projectile	E to W	N/K	11-May, 00:55
	3-4km S	Recorded	1	Projectile	W to E	N/K	11-May, 00:56
	3-4km S	Recorded	4	Explosion	Undetermined	N/K	11-May, 01:21
	2-3km S	Recorded	1	Explosion	Undetermined	N/K	11-May, 01:25
	2-3km S	Recorded	1	Illumination flare	In vertical flight	N/K	11-May, 01:27
	3-4km S	Recorded	3	Projectile	E to W	N/K	11-May, 02:04
	2-3km S	Recorded	1	Explosion	Undetermined	N/K	11-May, 02:18
3-4km S	Recorded	3	Projectile	In vertical flight	N/K	11-May, 03:44	
SMM camera in Svitlodarsk (government-controlled, 57km NE of Donetsk)	2-4km ESE	Recorded	2	Projectile	SSW to NNE	N/K	11-May, 00:17
	2-4km ESE	Recorded	1	Projectile	SSW to NNE	N/K	11-May, 01:02
	2-4km ESE	Recorded	4	Projectile	SSW to NNE	N/K	11-May, 01:03
	2-4km ESE	Recorded	2	Projectile	SSW to NNE	N/K	11-May, 01:07
SE part of Avdiivka (government-controlled, 17km N of Donetsk)	1-2km SE	Heard	2	Explosion	Undetermined	N/K	11-May, 09:16-09:22
	0.5-1km SE	Heard	6	Explosion	Undetermined	N/K	11-May, 10:00-10:47
SW edge of Avdiivka (government-controlled, 17km N of Donetsk)	1-2km SE	Heard	5	Explosion	Undetermined	N/K	11-May, 12:37-12:45
	1-2km SE	Heard	2	Explosion	Undetermined	N/K	11-May, 13:50-14:15
About 1km NW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	4-6km SW	Heard	4	Explosion	Undetermined	N/K	11-May, 09:11-09:21
	2km WSW	Heard	5	Shot		Small arms	11-May, 10:10
	2-3km SW	Heard	5	Shot		Small arms	11-May, 13:55
	2-3km SW	Heard	2	Burst		Small arms	11-May, 14:11
About 1km E of Kruta Balka (non-government-controlled, 16km N of Donetsk)	3-4km SW	Heard	1	Explosion	Undetermined	N/K	11-May, 10:55
2.5km SSE of	N/K E	Heard	1	Explosion	Undetermined	N/K	11-May, 10:59

Lomakyne (government-controlled, 15km NE of Mariupol)							
2km SW of Pyshevyk (government-controlled, 25km NE of Mariupol)	N/K E	Heard	1	Explosion	Undetermined	N/K	11-May, 10:40
1km NNW of Pyshevyk (government-controlled, 25km NE of Mariupol)	N/K ENE	Heard	1	Explosion	Undetermined	N/K	11-May, 11:33
	N/K NE	Heard	4	Burst		HMG	11-May, 13:35
	N/K E	Heard	1	Explosion	Undetermined	N/K	11-May, 13:35
Horlivka (non-government-controlled, 39km NE of Donetsk)	3-5km SW	Heard	7	Explosion	Undetermined	N/K	10-May, 18:31-18:32
	3-5km SW	Heard	106	Explosion	Undetermined	N/K	10-May, 19:08-19:50
	3-5km SW	Heard	35	Burst		HMG	10-May, 19:08-19:50
	3-5km W	Heard	12	Burst		HMG	10-May, 20:00-20:13
	3-5km SW	Heard	6	Explosion	Undetermined	N/K	10-May, 20:13
	3-5km SW	Heard	6	Burst		HMG	10-May, 20:30-20:32
	3-5km SW	Heard	1	Explosion	Undetermined	N/K	10-May, 21:30
	3-5km NW	Heard	1	Explosion	Undetermined	N/K	11-May, 02:40
About 2km SSE of Kamianka (government-controlled, 20km N of Donetsk)	3-5km SW	Heard	6	Burst		HMG	11-May, 06:06
	0.5-1km E	Heard	1	Explosion	Undetermined	N/K	11-May, 08:54
Svitlodarsk (government-controlled, 57km NE of Donetsk)	0.5-1km E	Heard	1	Explosion	Undetermined	N/K	11-May, 09:02
	2-4km ESE	Heard	1	Explosion	Undetermined	N/K	11-May, 11:55
2km S of Muratove (government-controlled, 51km NW of Luhansk)	6-10km SW	Heard	1	Explosion	Undetermined	N/K	11-May, 10:07
NW edge of Zolote-5/Mykhailivka (non-government-controlled, 58km W of Luhansk)	1-2km W	Heard	36	Shot	Could not be assessed as inside or outside the Zolote disengagement area	Small arms	11-May, 10:53-11:10
Kalynove (non-government controlled, 60km W of Luhansk)	4-6km SW	Heard	25	Burst		HMG	11-May, 11:56-12:16
	4-6km SW	Heard	26	Explosion	Undetermined	N/K	11-May, 11:56-12:16
	3-5km SW	Heard	3	Explosion	Undetermined	N/K	11-May, 12:43-12:45
SMM camera in Avdiivka (government-controlled, 17km N of Donetsk)	2-4km SSE	Recorded	1	Illumination flare	WSW to ENE	N/K	11-May, 23:46
	3-4km SSE	Recorded	1	Illumination flare	In vertical flight	N/K	12-May, 01:51
	3-4km SSE	Recorded	1	Illumination flare	In vertical flight	N/K	12-May, 01:52
SMM camera in Chermalyk (government-controlled, 31km NE of Mariupol)	3-5km S	Recorded	9	Projectile	WSW to ENE	N/K	11-May, 21:27
	2-3km SSE	Recorded	7	Projectile	WSW to ENE	N/K	11-May, 21:57
	9-12km S	Recorded	34	Projectile	WSW to ENE	N/K	11-May, 22:09
	9-12km SSE	Recorded	6	Projectile	ENE to WSW	N/K	11-May, 22:23
	2-3km SSE	Recorded	1	Projectile	ENE to WSW	N/K	11-May, 22:32
9-12km S	Recorded	3	Projectile	WSW to ENE	N/K	11-May, 22:47	

	2-3km SE	Recorded	6	Projectile	ENE to WSW	N/K	11-May, 23:02
	2-3km SE	Recorded	15	Projectile	ENE to WSW	N/K	11-May, 23:03
	2-3km SSE	Recorded	7	Projectile	WSW to ENE	N/K	11-May, 23:03
	2-3km SSE	Recorded	3	Projectile	In vertical flight	N/K	11-May, 23:03
	2-3km SSE	Recorded	15	Projectile	WSW to ENE	N/K	11-May, 23:04
	2-3km SSE	Recorded	18	Projectile	WSW to ENE	N/K	11-May, 23:05
	2-3km SSE	Recorded	7	Projectile	WSW to ENE	N/K	11-May, 23:06
	2-3km SE	Recorded	4	Projectile	ENE to WSW	N/K	11-May, 23:51
	2-3km SE	Recorded	2	Projectile	ENE to WSW	N/K	11-May, 23:52
	2-3km SE	Recorded	3	Projectile	ENE to WSW	N/K	12-May, 00:28
	2-3km SE	Recorded	3	Projectile	ENE to WSW	N/K	12-May, 00:43
	2-3km SE	Recorded	3	Projectile	ENE to WSW	N/K	12-May, 00:47
	2-3km SE	Recorded	3	Projectile	ENE to WSW	N/K	12-May, 02:21
	2-3km SE	Recorded	2	Projectile	ENE to WSW	N/K	12-May, 02:31
	2-3km SSE	Recorded	1	Projectile	ENE to WSW	N/K	12-May, 02:40
	2-3km SSE	Recorded	1	Projectile	WSW to ENE	N/K	12-May, 02:44
	2-3km SSE	Recorded	5	Projectile	WSW to ENE	N/K	12-May, 02:45
	2-3km SSE	Recorded	1	Explosion	Undetermined	N/K	12-May, 02:52
	2-3km SSE	Recorded	1	Muzzle flash		N/K	12-May, 02:57
	2-3km SE	Recorded	2	Projectile	ENE to WSW	N/K	12-May, 02:59
	3-5km S	Recorded	3	Projectile	WSW to ENE	N/K	12-May, 03:28
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	2-4km S	Recorded	11	Explosion	Impact	N/K	11-May, 21:14
	2-4km S	Recorded	10	Explosion	Impact	N/K	11-May, 21:15
	2-4km S	Recorded	10	Explosion	Impact	N/K	11-May, 21:16
	2-4km S	Recorded	4	Explosion	Impact	N/K	11-May, 21:17
	2-4km S	Recorded	13	Explosion	Impact	N/K	11-May, 21:18
	2-4km S	Recorded	19	Explosion	Impact	N/K	11-May, 21:19
	2-4km S	Recorded	16	Explosion	Impact	N/K	11-May, 21:20
	2-4km S	Recorded	23	Explosion	Impact	N/K	11-May, 21:21
	2-4km S	Recorded	19	Explosion	Impact	N/K	11-May, 21:22
	2-4km S	Recorded	14	Explosion	Impact	N/K	11-May, 21:23
	1-2km SSW	Recorded	1	Illumination flare	In vertical flight	N/K	11-May, 21:25
	1-2km SSW	Recorded	2	Projectile	E to W	N/K	11-May, 21:25
	1-3km SSW	Recorded	1	Projectile	In vertical flight	N/K	11-May, 21:25
	1-3km SSW	Recorded	2	Explosion	Undetermined	N/K	11-May, 21:42
	1-2km SSW	Recorded	1	Projectile	NW to SE	N/K	11-May, 22:00
	3-5km SSW	Recorded	1	Illumination flare	In vertical flight	N/K	12-May, 01:52
	1-3km SSW	Recorded	2	Projectile	W to E	N/K	12-May, 02:06
	1-3km SSW	Recorded	2	Projectile	In vertical flight	N/K	12-May, 02:29
	1-3km SSW	Recorded	4	Projectile	In vertical flight	N/K	12-May, 02:30
	1-2km S	Recorded	1	Projectile	WNW to ESE	N/K	12-May, 03:01
1-3km SSW	Recorded	1	Projectile	NNW to SSE	N/K	12-May, 03:55	
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	3-5km E	Recorded	2	Projectile	S to N	N/K	11-May, 21:59
	3-5km E	Recorded	1	Projectile	S to N	N/K	11-May, 22:12
	3-5km E	Recorded	1	Explosion	Undetermined	N/K	11-May, 22:47
	3-5km E	Recorded	5	Projectile	S to N	N/K	11-May, 23:11
	3-5km E	Recorded	1	Projectile	N to S	N/K	11-May, 23:19
	3-5km E	Recorded	3	Projectile	S to N	N/K	11-May, 23:38
	2-4km E	Recorded	1	Projectile	NW to SE	N/K	12-May, 01:23
	2-4km E	Recorded	1	Projectile	NW to SE	N/K	12-May, 01:27
2-4km E	Recorded	1	Explosion	Undetermined	N/K	12-May, 04:12	
SMM camera at Oktiabr mine (non-government-controlled, 9km NW of Donetsk city centre)	1-3km NNE	Recorded	10	Projectile	WNW to ESE	N/K	11-May, 20:42
	6-8km NE	Recorded	1	Illumination flare	In vertical flight	N/K	12-May, 01:51
	6-8km NE	Recorded	1	Illumination flare	In vertical flight	N/K	12-May, 01:52
SMM camera at entry-exit checkpoint in Pyshchevyk (government-	1-2km S	Recorded	1	Projectile	ENE to WSW	N/K	11-May, 20:41
	3-4km S	Recorded	1	Explosion	Undetermined	N/K	11-May, 21:23
	3-4km S	Recorded	1	Explosion	Undetermined	N/K	11-May, 21:27
	3-4km S	Recorded	8	Projectile	W to E	N/K	11-May, 21:27
	1-2km S	Recorded	4	Projectile	W to E	N/K	11-May, 21:27

controlled, 25km NE of Mariupol)	3-4km S	Recorded	2	Projectile	In vertical flight	N/K	11-May, 21:47
	3-4km S	Recorded	1	Projectile	WSW to ENE	N/K	11-May, 21:55
	3-4km S	Recorded	34	Projectile	W to E	N/K	11-May, 22:09
	1-4km S	Recorded	1	Explosion	Airburst	N/K	11-May, 22:09
	3-4km S	Recorded	6	Projectile	E to W	N/K	11-May, 22:23
	3-4km S	Recorded	5	Projectile	E to W	N/K	11-May, 22:37
	3-4km S	Recorded	1	Projectile	W to E	N/K	11-May, 22:43
	3-4km S	Recorded	3	Projectile	W to E	N/K	11-May, 22:47
	3-4km S	Recorded	1	Projectile	E to W	N/K	11-May, 22:57
	3-4km S	Recorded	5	Projectile	E to W	N/K	11-May, 23:01
	3-4km S	Recorded	4	Projectile	E to W	N/K	11-May, 23:30
	3-4km S	Recorded	4	Projectile	E to W	N/K	11-May, 23:41
	3-4km S	Recorded	12	Projectile	E to W	N/K	11-May, 23:46
	3-4km S	Recorded	2	Projectile	E to W	N/K	11-May, 23:52
	3-4km S	Recorded	1	Projectile	W to E	N/K	11-May, 23:55
	3-4km S	Recorded	1	Projectile	E to W	N/K	12-May, 00:09
	3-4km S	Recorded	5	Projectile	E to W	N/K	12-May, 00:10
	3-4km S	Recorded	8	Projectile	W to E	N/K	12-May, 00:10
	3-4km S	Recorded	1	Projectile	W to E	N/K	12-May, 00:11
	3-4km S	Recorded	1	Projectile	E to W	N/K	12-May, 00:19
	3-4km S	Recorded	12	Projectile	E to W	N/K	12-May, 00:21
	3-4km S	Recorded	8	Projectile	E to W	N/K	12-May, 00:22
	3-4km S	Recorded	7	Projectile	E to W	N/K	12-May, 00:23
	3-4km S	Recorded	1	Projectile	W to E	N/K	12-May, 00:23
	3-4km S	Recorded	1	Burst	E to W	N/K	12-May, 00:26
	3-4km S	Recorded	1	Projectile	E to W	N/K	12-May, 00:30
	3-4km S	Recorded	1	Explosion	Impact	N/K	12-May, 00:30
	3-5km S	Recorded	1	Explosion	Undetermined	N/K	12-May, 00:50
	3-4km S	Recorded	3	Projectile	E to W	N/K	12-May, 01:12
	3-4km S	Recorded	4	Projectile	E to W	N/K	12-May, 01:13
	3-4km S	Recorded	1	Projectile	E to W	N/K	12-May, 01:19
	3-4km SSE	Recorded	4	Projectile	E to W	N/K	12-May, 02:02
	3-4km SSE	Recorded	3	Projectile	E to W	N/K	12-May, 02:06
	3-4km SSW	Recorded	10	Projectile	E to W	N/K	12-May, 02:36
3-4km S	Recorded	1	Projectile	E to W	N/K	12-May, 02:39	
3-4km SSE	Recorded	1	Explosion	Undetermined	N/K	12-May, 03:10	
3-4km SSE	Recorded	6	Projectile	E to W	N/K	12-May, 03:11	
3-4km SSE	Recorded	14	Projectile	E to W	N/K	12-May, 03:20	
3-4km SSE	Recorded	3	Projectile	W to E	N/K	12-May, 03:27	
3-4km SSE	Recorded	7	Projectile	E to W	N/K	12-May, 03:27	
3-4km SSE	Recorded	9	Projectile	W to E	N/K	12-May, 03:30	
3-4km SSE	Recorded	1	Projectile	E to W	N/K	12-May, 03:30	
SMM camera 1km SW of Shyrokyne (government-controlled, 20km E of Mariupol)	2-3km NNE	Recorded	1	Projectile	ESE to WNW	N/K	12-May, 01:48
SMM camera in Svitlodarsk (government-controlled, 57km NE of Donetsk)	2-4km E	Recorded	1	Illumination flare	In vertical flight	N/K	12-May, 03:28
About 1km NW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	2-3km NNW	Heard	1	Explosion	Undetermined	N/K	12-May, 09:32
	2-3km SW	Heard	1	Explosion	Undetermined	N/K	12-May, 09:35
	2-3km SW	Heard and saw	1	Explosion	Impact	N/K	12-May, 09:35
	3-4km NNW	Heard	3	Explosion	Undetermined	N/K	12-May, 09:44-10:00
	3-4km NNW	Heard	1	Explosion	Undetermined	N/K	12-May, 10:06
	1.5km W	Heard	3	Shot		Small arms	12-May, 13:49-14:09
	3-4km NNW	Heard	1	Explosion	Undetermined	N/K	12-May, 14:16
2-3km N	Heard	1	Explosion	Undetermined	N/K	12-May, 14:20	
2-3km WSW	Heard and	1	Explosion	Undetermined	N/K	12-May, 14:24	

		saw					
	2-3km WSW	Heard	2	Explosion	Undetermined	N/K	12-May, 14:24-14:28
	4-6km NNW	Heard	2	Explosion	Undetermined	N/K	12-May, 14:53-14:54
	2-3km SW	Heard	2	Explosion	Undetermined	N/K	12-May, 14:58-15:00
	2-3km SW	Heard and saw	1	Explosion	Impact	N/K	12-May, 15:00
SE part of Avdiivka (government-controlled, 17km N of Donetsk)	1-2km SE	Heard	2	Explosion	Undetermined	N/K	12-May, 09:36
	2-4km NE	Heard	2	Explosion	Undetermined	N/K	12-May, 09:57-10:01
	1-2km S	Heard	2	Explosion	Undetermined	N/K	12-May, 10:45-10:58
	1-2km SE	Heard	2	Explosion	Undetermined	N/K	12-May, 12:23
	1-2km SE	Heard	1	Explosion	Undetermined	N/K	12-May, 12:51
	1-2km SE	Heard	2	Explosion	Undetermined	N/K	12-May, 14:20
	1-2km SE	Heard	3	Explosion	Undetermined	N/K	12-May, 14:28
About 1km S of Novohryhorivka (non-government-controlled, 61km NE of Donetsk)	3-4km N	Heard and saw	1	Explosion	Undetermined	N/K	12-May, 14:10
3km NE of Zaichenko (non-government-controlled, 26km NE of Mariupol)	2-3km SE	Heard	5	Shot		Small arms	12-May, 10:50-10:51
	1-1.5km SE	Heard	1	Shot		Small arms	12-May, 10:50-10:51
Svitlodarsk (government-controlled, 57km NE of Donetsk)	2-4km ESE	Heard	1	Explosion	Undetermined	N/K	12-May, 10:05
	5-6km W	Heard	1	Explosion	Undetermined	N/K	12-May, 10:06
	6-7km NW	Heard	6	Explosion	Undetermined	N/K	12-May, 10:30-10:36
SMM camera in Zolote (government-controlled, 60km W of Luhansk)	2-4km E	Recorded	1	Projectile	NNW to SSE (assessed as outside the disengagement area)	N/K	11-May, 22:20
	2-4km E	Recorded	2	Projectile	NNW to SSE (assessed as outside the disengagement area)	N/K	11-May, 22:21
	3-5km SE	Recorded	1	Projectile	SW to NE (unable to be assessed as inside or outside the disengagement area)	N/K	11-May, 23:18
	2-4km ESE	Recorded	1	Projectile	SSW to NNE (unable to be assessed as inside or outside the disengagement area)	N/K	11-May, 23:32
	3-4km ESE	Recorded	1	Muzzle flash	Unable to be assessed as inside or outside the disengagement area	N/K	11-May, 23:32
N edge of Popasna (government-controlled, 69km W)	2-6km ESE	Heard	12	Explosion	Impact and outgoing	Artillery (type N/K)	11-May, 19:23-19:43

of Luhansk)	2-4km ESE	Heard	4	Burst		HMG	11-May, 19:23-19:43
	2-4km ESE	Heard	2	Shot		N/K	11-May, 19:23-19:43
	2-6km SSE	Heard	84	Burst		HMG	11-May, 20:07-20:50
	2-6km SSE	Heard	77	Explosion	Undetermined	Artillery (type N/K)	11-May, 20:07-20:50
	2-4km SSE	Heard	95	Burst		HMG	11-May, 22:10-23:15
	2-6km SSE	Heard	183	Explosion	Undetermined	Artillery (type N/K)	11-May, 22:10-23:15
E edge of Popasna (government-controlled, 69km W of Luhansk)	1km NNE	Heard	10	Shot		Small arms	12-May, 10:01-10:03
N edge of Holubivka (formerly Kirovsk, non-government-controlled, 51km W of Luhansk)	8-10km NE	Heard	3	Explosion	Undetermined	N/K	12-May, 09:54-10:11
	8-10km NE	Heard	10	Burst		HMG	12-May, 09:54-10:11
SW edge of Zolote-5/Mykhailivka (non-government-controlled, 58km W of Luhansk)	1km N	Heard	12	Shot	Assessed as outside the disengagement area	Small arms	12-May, 10:57-10:59
E edge of Zolote-5/Mykhailivka (non-government-controlled, 58km W of Luhansk)	1km NNE	Heard	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	12-May, 11:12
	1km NNE	Heard	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	12-May, 13:04
S edge of Zolote-5/Mykhailivka (non-government-controlled, 58km W of Luhansk)	2-4km NE	Heard	4	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	12-May, 11:27-11:35
3km SSW of Muratove (government-controlled, 51km NW of Luhansk)	7-10km SSW	Heard	5	Explosion	Undetermined	N/K	12-May, 11:20-11:35
Holubivske (non-government-controlled, 51km W of Luhansk)	4-5km NE	Heard	3	Explosion	Undetermined	N/K	12-May, 10:55-11:31
	4-5km NE	Heard	28	Shot		Small arms	12-May, 10:55-11:31
	4-5km NE	Heard	60	Burst		HMG	12-May, 10:55-11:31
SW edge of Zolote (government-controlled, 60km W of Luhansk)	2-3km SE	Heard	10	Explosion	Undetermined (assessed as inside the disengagement area)	N/K	12-May, 11:25-11:45
NE edge of Sentianivka (formerly Frunze, non-government-controlled, 44km W of Luhansk)	6-7km NW	Heard	2	Explosion	Undetermined	N/K	12-May, 12:18-12:29
	6-7km NW	Heard	5	Shot		Small arms	12-May, 12:18-12:29
	6-7km NW	Heard	5	Burst		HMG	12-May, 12:18-12:29

