

Table of ceasefire violations as of 26 December 2019⁷

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	Explosion	Impact	N/K	24-Dec, 02:10
	2-4km SE	Recorded	1	Projectile	WSW to ENE	N/K	24-Dec, 02:10
	2-4km SE	Recorded	1	Muzzle flash		N/K	24-Dec, 02:10
	2-4km SE	Recorded	2	Projectile	NE to SW	N/K	24-Dec, 02:23
	2-4km SSE	Recorded	1	Projectile	WSW to ENE	N/K	24-Dec, 05:06
SMM camera in Berezove (government-controlled, 31km SW of Donetsk)	2-4km SE	Recorded	1	Illumination flare	In vertical flight	N/K	24-Dec, 00:56
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	2-4km SSE	Recorded	1	Projectile	W to E	N/K	23-Dec, 23:01
	2-4km SSE	Recorded	3	Projectile	W to E	N/K	23-Dec, 23:02
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	1.5-2.5km SSW	Recorded	1	Explosion	Undetermined	N/K	23-Dec, 18:48
	0.7-1km S	Recorded	2	Projectile	W to E	N/K	23-Dec, 23:10
	0.7-1km S	Recorded	4	Muzzle flash		N/K	23-Dec, 23:10
	0.7-1km S	Recorded	3	Projectile	W to E	N/K	24-Dec, 01:03
	1-2km SSW	Recorded	2	Projectile	ENE to WSW	N/K	24-Dec, 01:13
	0.7-1km S	Recorded	3	Projectile	W to E	N/K	24-Dec, 01:24
	0.7-1km S	Recorded	2	Explosion	Undetermined	N/K	24-Dec, 01:27
	1-2km SSW	Recorded	1	Projectile	W to E	N/K	24-Dec, 02:10

⁷ 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.

	1-2km SSW	Recorded	1	Projectile	In vertical flight	N/K	24-Dec, 04:08
SMM camera 1.5km NE of Hnutove (government-controlled, 90km S of Donetsk)	3-5km SE	Recorded	1	Explosion	Air burst	N/K	23-Dec, 21:15
	3-5km SE	Recorded	2	Explosion	Undetermined	N/K	23-Dec, 21:30
SMM camera in Krasnohorivka (government-controlled, 21km W of Donetsk)	2-4km SE	Recorded	1	Projectile	In vertical flight	N/K	23-Dec, 23:20
SMM camera E of Lomakyne (government-controlled, 90km S of Donetsk)	2-6km ENE	Recorded	1	Projectile	WSW to ENE	N/K	24-Dec, 00:46
	2-6km ENE	Recorded	1	Explosion	Undetermined	N/K	24-Dec, 00:46
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	2-4km E	Recorded	1	Projectile	NNE to SSW	N/K	23-Dec, 22:09
SMM camera at Oktiabr mine (non-government-controlled, 9km NW of Donetsk city centre)	2-4km NNE	Recorded	2	Projectile	NW to SE	N/K	24-Dec, 03:09
	2-4km NNE	Recorded	7	Projectile	W to E	N/K	24-Dec, 17:15
SMM camera 1km SW of Shyrokyne (government-controlled, 100km S of Donetsk)	3-5km N	Recorded	2	Projectile	E to W	N/K	23-Dec, 18:40
	3-5km N	Recorded	22	Projectile	W to E	N/K	23-Dec, 18:46
	3-5km N	Recorded	4	Projectile	E to W	N/K	23-Dec, 18:50
	3-5km N	Recorded	1	Projectile	E to W	N/K	23-Dec, 18:54
	3-5km E	Recorded	4	Projectile	E to W	N/K	23-Dec, 19:40
	3-5km N	Recorded	3	Projectile	E to W	N/K	23-Dec, 19:41
	3-5km N	Recorded	1	Burst	SE to NW	N/K	23-Dec, 20:34
	3-5km N	Recorded	4	Projectile	WSW to ENE	N/K	23-Dec, 20:36
	5-7km N	Recorded	2	Explosion	Undetermined	N/K	23-Dec, 21:15
	3-5km N	Recorded	4	Projectile	ESE to WNW	N/K	23-Dec, 22:26
	3-5km N	Recorded	9	Projectile	E to W	N/K	24-Dec, 17:17

	3-5km N	Recorded	2	Explosion	Undetermined	N/K	24-Dec, 17:17
	3-5km N	Recorded	9	Projectile	E to W	N/K	24-Dec, 17:18
	3-5km N	Recorded	5	Projectile	E to W	N/K	24-Dec, 17:20
	3-5km N	Recorded	1	Projectile	E to W	N/K	24-Dec, 17:21
	3-5km N	Recorded	6	Projectile	E to W	N/K	24-Dec, 18:22
About 1km NW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	1-2km SW	Heard	2	Explosion	Undetermined	N/K	24-Dec, 09:36
	2-3km SSW	Heard	1	Explosion	Undetermined	N/K	24-Dec, 12:03
	2km SSW	Heard	5	Burst		HMG	24-Dec, 12:11
	1km SW	Heard	3	Burst		Small arms	24-Dec, 12:51-12:53
	2km SSE	Heard	2	Shot		HMG	24-Dec, 13:31
	2km SSE	Heard	1	Shot		HMG	24-Dec, 13:38
	2km SSE	Heard	3	Burst		HMG	24-Dec, 13:46
Railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	2km W	Heard	2	Explosion	Undetermined	N/K	24-Dec, 11:44
1.8km N of Petrivske (non-government-controlled, 41km S of Donetsk)	2-3km SSE	Heard	20	Shot	Assessed as outside the disengagement area	Small arms	24-Dec, 12:33-12:34
Krasnohorivka (government-controlled, 21km W of Donetsk)	2-3km NNE	Heard	21	Shot		Small arms	24-Dec, 13:34-13:44
SE edge of Avdiivka (government-controlled, 17km N of Donetsk)	3-5km ENE	Heard	1	Explosion	Undetermined	N/K	24-Dec, 09:20
	2-3km ENE	Heard	2	Burst		Small arms	24-Dec, 09:36
	2-3km E	Heard	3	Explosion	Undetermined	N/K	24-Dec, 10:33
	2-3km E	Heard	3	Shot		Small arms	24-Dec, 11:26
	2-3km E	Heard	3	Shot		Small arms	24-Dec, 11:40

	2-3km E	Heard	1	Explosion	Undetermined	N/K	24-Dec, 11:40
	2-3km E	Heard	2	Explosion	Undetermined	N/K	24-Dec, 11:45
	4-5km SE	Heard	2	Explosion	Undetermined	N/K	24-Dec, 12:05
	1-2km E	Heard	9	Burst		Small arms	24-Dec, 12:12
	2-3km ESE	Heard	6	Burst		HMG	24-Dec, 13:45
About 2km NE Bohdanivka (government-controlled, 41km SW of Donetsk)	2-3km SE	Heard	2	Burst	Assessed as inside the Petrivske disengagement area	HMG	24-Dec, 12:34-12:36
	2-3km SE	Heard	2	Explosion	Undetermined (assessed as inside Petrivske disengagement area)	N/K	24-Dec, 12:34-12:36
Chernenko (government-controlled, 86km S of Donetsk)	2-3km ESE	Heard	30	Shot		Small arms	24-Dec, 13:10-13:13
	2-3km ESE	Heard	3	Shot		Small arms	24-Dec, 13:35
Svitlodarsk (government-controlled, 57km NE of Donetsk)	2-5km SE	Heard	4	Shot		Small arms	23-Dec, 18:38
	2-5km SE	Heard	8	Shot		Small arms	23-Dec, 18:53
	2-5km S	Heard	1	Explosion	Undetermined	N/K	23-Dec, 19:00
	2-5km SE	Heard	3	Burst		HMG	23-Dec, 19:01
	2-5km SE	Heard	8	Burst		Small arms	23-Dec, 19:07
	2-5km SE	Heard	13	Burst		Small arms	23-Dec, 19:15
	2-5km S	Heard	5	Burst		HMG	23-Dec, 19:25
	2-5km SE	Heard	5	Shot		Small arms	23-Dec, 19:32
	2-5km SE	Heard	4	Shot		Small arms	23-Dec, 19:42
	2-5km SE	Heard	5	Shot		Small arms	23-Dec, 19:54
	2-5km S	Heard	3	Shot		Small arms	23-Dec, 19:58

	2-5km S	Heard	9	Shot		Small arms	23-Dec, 20:05-20:09
	2-5km SE	Heard	29	Burst		HMG	23-Dec, 20:06-20:08
	2-5km SE	Heard	22	Shot		Small arms	23-Dec, 20:15
	2-5km S	Heard	5	Burst		HMG	23-Dec, 20:21
	2-5km S	Heard	25	Shot		Small arms	23-Dec, 20:32-20:45
	2-5km S	Heard	22	Burst		HMG	23-Dec, 20:35-20:45
	2-5km SE	Heard	5	Burst		HMG	23-Dec, 20:55
	2-5km SE	Heard	4	Shot		Small arms	23-Dec, 21:04
	2-5km SE	Heard	19	Shot		Small arms	23-Dec, 21:15
	2-5km S	Heard	13	Burst		HMG	23-Dec, 21:24
	2-5km SE	Heard	14	Burst		HMG	23-Dec, 21:30-21:35
	3-5km S	Heard	1	Explosion	Undetermined	N/K	23-Dec, 21:32
	2-5km S	Heard	22	Shot		Small arms	23-Dec, 21:32-21:35
	2-5km SE	Heard	9	Shot		Small arms	23-Dec, 21:46
	2-5km SE	Heard	12	Burst		HMG	23-Dec, 21:57
	2-5km S	Heard	10	Shot		Small arms	23-Dec, 21:58
	2-5km S	Heard	24	Shot		Small arms	23-Dec, 22:04-22:10
	3-5km S	Heard	2	Shot		Small arms	23-Dec, 22:21-22:25
	2-5km SE	Heard	13	Burst		HMG	23-Dec, 22:20-22:25
	2-5km S	Heard	5	Shot		Small arms	23-Dec, 22:37
	2-5km S	Heard	18	Shot		Small arms	23-Dec, 23:15
	2-5km SE	Heard	34	Shot		Small arms	23-Dec, 23:18-23:27

	2-5km SE	Heard	8	Shot		Small arms	23-Dec, 23:32
	2-5km SE	Heard	6	Shot		Small arms	23-Dec, 23:44
	2-5km S	Heard	32	Shot		Small arms	23-Dec, 23:45-23:50
	2-5km S	Heard	7	Shot		Small arms	23-Dec, 23:55-23:59
	3-5km SE	Heard	18	Shot		Small arms	24-Dec, 06:20-06:30
	3-5km SE	Heard	6	Burst		Small arms	24-Dec, 06:20-06:30
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	24-Dec, 07:00
	3-5km SE	Heard	3	Shot		Small arms	24-Dec, 07:00-07:05
	3-5km S	Heard	1	Explosion	Undetermined	N/K	24-Dec, 08:48
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	24-Dec, 13:10
	3-5km SE	Heard	3	Burst		HMG	24-Dec, 13:10
	3-5km SE	Heard	10	Shot		Small arms	24-Dec, 13:13
	3-5km SE	Heard	10	Shot		Small arms	24-Dec, 14:04
	3-5km S	Heard	5	Shot		Small arms	24-Dec, 14:11-14:13
	2-4km SE	Heard	1	Explosion	Undetermined	N/K	24-Dec, 14:50
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	24-Dec, 15:15
	3-5km SE	Heard	9	Burst		HMG	24-Dec, 15:50
	3-5km SE	Heard	2	Explosion	Undetermined	N/K	24-Dec, 16:06
	3-5km SE	Heard	3	Explosion	Undetermined	HMG	24-Dec, 16:27
	3-5km SE	Heard	15	Burst		HMG	24-Dec, 17:18
	3-5km SE	Heard	3	Shot		Small arms	24-Dec, 17:18
	3-5km S	Heard	12	Shot		Small arms	24-Dec, 17:32

	3-5km S	Heard	20	Burst		HMG	24-Dec, 17:35
	3-5km S	Heard	3	Burst		HMG	24-Dec, 16:20
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	3-5km SSE	Heard	1	Explosion	Undetermined	N/K	24-Dec, 09:23
	4-5km S	Heard	5	Burst		HMG	24-Dec, 13:44
SE edge of Zalizne (government-controlled, 42km NE of Donetsk)	2-4km SSE	Heard	15	Burst		HMG	24-Oct, 10:50-10:52
Maiorsk (government-controlled, 45km NE of Donetsk)	3-5km W	Heard	2	Explosion	Undetermined	N/K	24-Dec, 11:32
Pivnichne (government-controlled, 44km NE of Donetsk)	1-2km E	Heard	5	Explosion	Undetermined	N/K	24-Dec, 11:30-11:35
	1-2km E	Heard	4	Shot		Small arms	24-Dec, 11:30-11:35
	1-2km E	Heard	4	Burst		HMG	24-Dec, 11:36-11:37
Popasna (government-controlled, 69km W of Luhansk)	5-7km ESE	Heard	2	Explosion	Undetermined	N/K	23-Dec, 19:35-20:00
SW edge of Malomykolaivka (non-government-controlled, 36km SW of Luhansk)	3-4km NW	Heard	10	Explosion	Undetermined (assessed as live-fire exercise outside the security zone)	N/K	24-Dec, 09:26
Dachne (non-government-controlled, 47km W of Luhansk)	2-4km NE	Heard	20	Shot		HMG	24-Dec, 10:36-10:46
1.3km N of Dachne (non-government-controlled, 47km W of Luhansk)	1-2km N	Heard	30	Shot	Assessed as aimed at the SMM mini-UAV	Small arms	24-Dec, 10:47
	2-4km N	Heard	15	Shot		HMG	24-Dec, 11:06
E edge of Zolote-5/Mykhailivka (non-government-controlled, 58km W of Luhansk)	4-5km NNE	Heard	4	Explosion	Undetermined (assessed as outside the Zolote disengagement area)	N/K	24-Dec, 11:43-11:53

	4-5km NNE	Heard	31	Burst	Assessed as outside the Zolote disengagement area	N/K	24-Dec, 11:43-11:53
N edge of the disengagement area near Zolote (government-controlled, 60km W of Luhansk)	3-5km ESE	Heard	2	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	24-Dec, 11:43
Tsarivka (government-controlled, 41km NW of Luhansk)	5-7km SW	Heard	5	Explosion	Undetermined	N/K	24-Dec, 11:40
250m N of Stanytsia Luhanska bridge (15km NE of Luhansk)	3-4km E	Heard	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	24-Dec, 14:54
SMM camera in Avdiivka (government-controlled, 17km N of Donetsk)	2-4km ESE	Recorded	1	Projectile	W to E	N/K	24-Dec, 18:56
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	2-4km ESE	Recorded	26	Projectile	N to S	N/K	24-Dec, 21:19
	3-5km SE	Recorded	8	Projectile	NE to SW	N/K	24-Dec, 23:10
	3-5km SE	Recorded	1	Projectile	SW to NE	N/K	24-Dec, 23:11
	3-5km SE	Recorded	4	Projectile	SW to NE	N/K	24-Dec, 23:36
	3-5km SE	Recorded	3	Projectile	SW to NE	N/K	24-Dec, 23:49
	3-5km SE	Recorded	5	Projectile	NE to SW	N/K	25-Dec, 00:09
	2-4km ESE	Recorded	10	Projectile	N to S	N/K	25-Dec, 00:28
	3-5km SE	Recorded	1	Projectile	SW to NE	N/K	25-Dec, 02:34
	3-5km SE	Recorded	2	Projectile	SW to NE	N/K	25-Dec, 02:36
	2-3km SE	Recorded	1	Muzzle flash		N/K	25-Dec, 17:27
	2-4km	Recorded	1	Explosion	Undetermined (subsequent to previous event)	N/K	25-Dec, 17:27
	1-2km SE	Recorded	9	Projectile	N to S	N/K	25-Dec, 17:34

	1-2km SE	Recorded	1	Projectile	W to E	N/K	25-Dec, 18:08
	1-2km SE	Recorded	1	Projectile	W to E	N/K	25-Dec, 18:09
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	1-3km SSW	Recorded	1	Projectile	NW to SE	N/K	24-Dec, 18:34
	300-500m S	Recorded	3	Projectile	NNW to SSE	N/K	24-Dec, 22:11
	300-500m S	Recorded	4	Burst		N/K	25-Dec, 00:09
	300-500m SSW	Recorded	1	Burst		N/K	25-Dec, 00:09
	300-500m S	Recorded	7	Burst		N/K	25-Dec, 00:10
	300-500m SSW	Recorded	1	Muzzle flash		N/K	25-Dec, 00:10
	300-500m S	Recorded	1	Projectile	NNW to SSE	N/K	25-Dec, 00:10
	300-500m S	Recorded	3	Burst		N/K	25-Dec, 00:11
	300-500m SW	Recorded	1	Burst		N/K	25-Dec, 00:11
	300-500m SSW	Recorded	5	Muzzle flash		N/K	25-Dec, 00:12
	0.5-1.5km S	Recorded	1	Explosion	Undetermined	N/K	25-Dec, 00:56
	300-500m SSW	Recorded	5	Muzzle flash		N/K	25-Dec, 01:50
	300-500m S	Recorded	1	Projectile	W to E	N/K	25-Dec, 06:28
SMM camera in Hranitne (government-controlled, 60km S of Donetsk)	2-4km E	Recorded	1	Projectile	S to N	N/K	24-Dec, 20:19
	3-5km ESE	Recorded	1	Illumination flare	In vertical flight	N/K	24-Dec, 20:54
	2-3km ESE	Recorded	3	Projectile	SW to NE	N/K	25-Dec, 16:55
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	4-6km ENE	Recorded	1	Explosion	Undetermined	N/K	24-Dec, 20:52
	4-6km E	Recorded	1	Projectile	S to N	N/K	24-Dec, 20:52
	4-6km E	Recorded	1	Explosion	Undetermined	N/K	25-Dec, 01:48
	4-6km E	Recorded	1	Projectile	N to S	N/K	25-Dec, 01:51

	4-6km E	Recorded	1	Explosion	Undetermined	N/K	25-Dec, 01:51
	4-6km E	Recorded	1	Explosion	Undetermined	N/K	25-Dec, 01:52
	4-6km E	Recorded	1	Projectile	N to S	N/K	25-Dec, 01:52
	4-6km E	Recorded	1	Explosion	Subsequent to the previous event	N/K	25-Dec, 01:52
SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	25-Dec, 01:40
SMM camera in Petrivske (non-government-controlled, 41km S of Donetsk)	0.5-1km WSW	Recorded	3	Projectile	NNW to SSE (assessed as inside the disengagement area)	N/K	19-Dec, 02:19
	0.5-1km WSW	Recorded	2	Projectile	NNW to SSE (assessed as inside the disengagement area)	N/K	19-Dec, 02:54
	0.5-1km WSW	Recorded	2	Projectile	NNW to SSE (assessed as inside the disengagement area)	N/K	19-Dec, 02:55
	0.5-1km WSW	Recorded	1	Projectile	NNW to SSE (assessed as inside the disengagement area)	N/K	19-Dec, 03:59
	0.5-1km WSW	Recorded	2	Projectile	NNW to SSE (assessed as inside the disengagement area)	N/K	19-Dec, 05:10
	0.5-1km WSW	Recorded	1	Projectile	NNW to SSE (assessed as inside the disengagement area)	N/K	19-Dec, 05:46
SMM camera 1km SW of Shyrokyne (government-controlled, 100km S of Donetsk)	3-5km N	Recorded	3	Projectile	E to W	N/K	24-Dec, 20:00
	3-5km NNE	Recorded	1	Projectile	WSW to ENE	N/K	24-Dec, 20:01
	3-5km NNE	Recorded	9	Projectile	WSW to ENE	N/K	24-Dec, 20:04
	3-5km N	Recorded	21	Projectile	WSW to ENE	N/K	24-Dec, 20:05

	3-5km N	Recorded	9	Projectile	W to E	N/K	24-Dec, 20:06
	3-5km N	Recorded	18	Projectile	E to W	N/K	24-Dec, 20:06
	3-5km NNE	Recorded	1	Explosion	Undetermined	N/K	24-Dec, 20:06
	3-5km N	Recorded	1	Muzzle flash		N/K	24-Dec, 20:08
	3-5km N	Recorded	2	Projectile	In vertical flight (subsequent to previous event)	N/K	24-Dec, 20:08
	3-5km N	Recorded	1	Explosion	Undetermined (subsequent to previous event)	N/K	24-Dec, 20:08
	3-5km N	Recorded	4	Projectile	E to W	N/K	24-Dec, 20:08
	3-5km N	Recorded	2	Explosion	Undetermined	N/K	24-Dec, 20:09
	3-5km N	Recorded	4	Explosion	Undetermined	N/K	24-Dec, 20:10
	3-5km N	Recorded	6	Projectile	SSE to NNW	N/K	24-Dec, 20:11
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	24-Dec, 20:11
	3-5km N	Recorded	3	Projectile	E to W	N/K	24-Dec, 20:13
	3-5km N	Recorded	22	Projectile	W to E	N/K	24-Dec, 20:14
	3-5km N	Recorded	2	Explosion	Undetermined	N/K	24-Dec, 20:15
	3-5km N	Recorded	5	Projectile	E to W	N/K	24-Dec, 22:15
	3-5km N	Recorded	5	Projectile	E to W	N/K	25-Dec, 01:54
	3-5km N	Recorded	4	Projectile	E to W	N/K	25-Dec, 02:58
	3-5km N	Recorded	1	Projectile	E to W	N/K	25-Dec, 03:21
	3-5km N	Recorded	5	Projectile	E to W	N/K	25-Dec, 03:27
	3-5km N	Recorded	3	Projectile	E to W	N/K	25-Dec, 03:28
	3-5km N	Recorded	1	Muzzle flash		N/K	25-Dec, 04:14

	3-5km N	Recorded	1	Projectile	SSW to NNE (subsequent to previous event)	N/K	25-Dec, 04:14
	3-5km N	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	25-Dec, 04:14
	3-5km N	Recorded	2	Projectile	E to W	N/K	25-Dec, 05:48
About 1km NW of the railway station in Yasynuvata (non- government-controlled, 16km NE of Donetsk)	1km NW	Heard	4	Burst		Small arms	25-Dec, 09:32
	1km N	Heard	7	Burst		Small arms	25-Dec, 09:32
	1km N	Heard	3	Burst		HMG	25-Dec, 09:32
	1km N	Heard	30	Burst		HMG	25-Dec, 09:37
	1km N	Heard	17	Burst		Small arms	25-Dec, 09:39
	1km SW	Heard	1	Shot		Small arms	25-Dec, 12:06
	1km SW	Heard	1	Shot		Small arms	25-Dec, 12:27
Railway station in Yasynuvata (non- government-controlled, 16km NE of Donetsk)	1km NE	Heard	10	Burst		Small arms	25-Dec, 09:52
About 1km E of Kruta Balka (non-government- controlled, 16km N of Donetsk)	1km NE	Heard	15	Burst		Small arms	25-Dec, 10:25
1.2km NNE of the central railway station in Donetsk (non- government-controlled, 6km NW of Donetsk city centre)	3-4km NNE	Heard	1	Explosion	Undetermined	N/K	25-Dec, 09:10
Petrivske (non- government-controlled, 41km S of Donetsk)	1-2km SSE	Heard	15	Shot	Assessed as outside the disengagement area	Small arms	25-Dec, 10:40
	1-2km SSE	Heard	3	Burst	Assessed as outside the disengagement area	Small arms	25-Dec, 10:45

	1-2km SE	Heard	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	25-Dec, 10:45
About 1.8km N of Petrivske (non-government-controlled, 41km S of Donetsk)	1-2km SSW	Heard	5	Shot	Assessed as outside the disengagement area	Small arms	25-Dec, 12:20
SE edge of Avdiivka (government-controlled, 17km N of Donetsk)	3-5km SE	Heard	1	Explosion	Undetermined	N/K	25-Dec, 09:08
	2-4km SE	Heard	1	Explosion	Undetermined	N/K	25-Dec, 10:15
Krasnohorivka (government-controlled, 21km W of Donetsk)	3-5km N	Heard	1	Explosion	Undetermined	N/K	25-Dec, 10:55
	3-5km SE	Heard	2	Explosion	Undetermined	N/K	25-Dec, 11:17
	3-5km E	Heard	1	Explosion	Undetermined	N/K	25-Dec, 11:20
	2-3km NE	Heard	1	Explosion	Undetermined	N/K	25-Dec, 11:20
	1-2km E	Heard	4	Explosion	Undetermined	N/K	25-Dec, 11:27
NNE part of Pavlopil (government-controlled, 84km S of Donetsk)	2-4km SE	Heard	9	Burst		Small arms	25-Dec, 11:33
NNW part of Pavlopil (government-controlled, 84km S of Donetsk)	2km NE	Heard	12	Burst		Small arms	25-Dec, 12:50-12:53
About 2km NE Bohdanivka (government-controlled, 41km SW of Donetsk)	3-4km SE	Heard	1	Explosion	Undetermined (assessed as outside the Petrivske disengagement area)	N/K	25-Dec, 11:58
About 1km NNW of Pyshchevyk (government-controlled, 84km S of Donetsk)	2-3km SE	Heard	7	Burst		HMG	25-Dec, 14:03-14:05
Svitlodarsk (government-controlled, 57km NE of Donetsk)	3-5km SE	Heard	2	Explosion	Undetermined	N/K	24-Dec, 19:53
	3-5km SE	Heard	7	Burst		HMG	24-Dec, 20:50
	3-5km SE	Heard	2	Explosion	Undetermined	N/K	24-Dec, 20:51
	1-3km SE	Heard	4	Shot		Small arms	24-Dec, 20:54

	3-5km SE	Heard	3	Burst		HMG	24-Dec, 20:55
	3-5km SE	Heard	4	Burst		HMG	24-Dec, 20:56
	3-5km SE	Heard	7	Burst		HMG	24-Dec, 20:57
	3-5km SE	Heard	3	Burst		HMG	24-Dec, 21:04
	1-3km SE	Heard	5	Shot		Small arms	24-Dec, 21:09
	3-5km SE	Heard	1	Burst		HMG	24-Dec, 21:15
	1-3km SE	Heard	3	Shot		Small arms	24-Dec, 21:17
	3-5km SE	Heard	8	Burst		HMG	24-Dec, 21:17
	3-5km SE	Heard	2	Burst		HMG	24-Dec, 21:20
	1-3km SE	Heard	5	Shot		Small arms	24-Dec, 21:23
	1-3km SE	Heard	7	Shot		Small arms	24-Dec, 21:25
	3-5km SE	Heard	4	Burst		HMG	24-Dec, 21:38
	3-5km SE	Heard	11	Burst		HMG	24-Dec, 21:39
	3-5km SE	Heard	2	Burst		HMG	24-Dec, 21:41
	3-5km SE	Heard	3	Explosion	Undetermined	N/K	24-Dec, 21:46
	3-5km SE	Heard	2	Explosion	Undetermined	N/K	24-Dec, 21:47
	3-5km SE	Heard	10	Burst		HMG	24-Dec, 21:48
	3-5km SE	Heard	1	Burst		HMG	24-Dec, 21:50
	3-5km SE	Heard	2	Burst		HMG	24-Dec, 22:03
	3-5km SE	Heard	13	Burst		HMG	24-Dec, 22:09-22:10
	3-5km SE	Heard	3	Burst		HMG	24-Dec, 22:13
	3-5km SE	Heard	37	Burst		HMG	24-Dec, 22:14-22:16

	3-5km SE	Heard	42	Burst		HMG	24-Dec, 22:18-22:19
	3-5km SE	Heard	3	Burst		HMG	24-Dec, 22:28
	3-5km SE	Heard	13	Burst		HMG	24-Dec, 22:31
	1-3km SE	Heard	7	Shot		Small arms	24-Dec, 22:32
	3-5km SE	Heard	16	Burst		HMG	24-Dec, 22:33
	3-5km SE	Heard	4	Explosion	Undetermined	N/K	24-Dec, 22:33
	3-5km SE	Heard	4	Burst		HMG	24-Dec, 22:34
	1-3km SE	Heard	9	Shot		Small arms	24-Dec, 22:34-22:35
	1-3km SE	Heard	14	Shot		Small arms	24-Dec, 22:36-22:37
	3-5km SE	Heard	2	Burst		HMG	24-Dec, 22:38
	3-5km SE	Heard	2	Burst		HMG	24-Dec, 22:43
	3-5km SE	Heard	3	Burst		HMG	24-Dec, 22:47
	3-5km SE	Heard	3	Explosion	Undetermined	N/K	24-Dec, 22:48
	3-5km SE	Heard	5	Burst		HMG	24-Dec, 22:50
	3-5km SE	Heard	3	Burst		HMG	24-Dec, 22:54
	1-3km SE	Heard	1	Shot		Small arms	24-Dec, 22:55
	1-3km SE	Heard	38	Shot		Small arms	24-Dec, 22:56-22:58
	3-5km SE	Heard	4	Burst		HMG	24-Dec, 22:58
	1-3km SE	Heard	4	Shot		Small arms	24-Dec, 23:02
	1-3km SE	Heard	4	Shot		Small arms	24-Dec, 23:05
	1-3km SE	Heard	7	Shot		Small arms	24-Dec, 23:19
	3-5km SE	Heard	3	Burst		HMG	24-Dec, 23:21

	3-5km SE	Heard	10	Burst		HMG	24-Dec, 23:28
	3-5km SE	Heard	4	Burst		HMG	24-Dec, 23:33
	3-5km SE	Heard	3	Burst		HMG	24-Dec, 23:42
	3-5km SE	Heard	2	Burst		HMG	24-Dec, 23:53
	3-5km SE	Heard	3	Explosion	Undetermined	N/K	25-Dec, 10:50
	3-5km SE	Heard	3	Burst		HMG	25-Dec, 11:40
	3-5km SE	Heard	3	Burst		HMG	25-Dec, 11:41
	3-5km SE	Heard	3	Burst		HMG	25-Dec, 11:42
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	25-Dec, 11:44
	3-5km SE	Heard	7	Burst		HMG	25-Dec, 11:45
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	25-Dec, 11:46
	3-5km SE	Heard	11	Burst		HMG	25-Dec, 11:47
	3-5km SE	Heard	4	Explosion	Undetermined	N/K	25-Dec, 11:48-11:50
	3-5km SE	Heard	27	Burst		HMG	25-Dec, 11:48-11:50
	3-5km SE	Heard	31	Burst		HMG	25-Dec, 11:52-11:54
	3-5km SE	Heard	17	Burst		HMG	25-Dec, 11:55-11:56
	3-5km SE	Heard	2	Explosion	Undetermined	N/K	25-Dec, 11:55-11:56
	3-5km SE	Heard	14	Burst		HMG	25-Dec, 11:57-11:58
	3-5km SE	Heard	5	Explosion	Undetermined	N/K	25-Dec, 11:59
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	25-Dec, 12:00
	3-5km SE	Heard	12	Burst		HMG	25-Dec, 12:01
	3-5km SE	Heard	41	Burst		HMG	25-Dec, 12:02-12:04

	3-5km SE	Heard	3	Explosion	Undetermined	N/K	25-Dec, 12:04
	3-5km SE	Heard	12	Burst		HMG	25-Dec, 12:05-12:06
	3-5km SE	Heard	5	Explosion	Undetermined	N/K	25-Dec, 12:06
	3-5km SE	Heard	7	Burst		HMG	25-Dec, 12:06
	3-5km SE	Heard	3	Explosion	Undetermined	N/K	25-Dec, 12:08
	3-5km SE	Heard	18	Burst		HMG	25-Dec, 12:09
	3-5km SE	Heard	2	Explosion	Undetermined	N/K	25-Dec, 12:10
	3-5km SE	Heard	4	Burst		HMG	25-Dec, 12:11
	3-5km SE	Heard	4	Burst		HMG	25-Dec, 12:11
	3-5km SE	Heard	2	Explosion	Undetermined	N/K	25-Dec, 12:12
	3-5km SE	Heard	3	Explosion	Undetermined	N/K	25-Dec, 12:13
	3-5km SE	Heard	3	Explosion	Undetermined	N/K	25-Dec, 12:14
	3-5km SE	Heard	4	Explosion	Undetermined	N/K	25-Dec, 12:15
	3-5km SE	Heard	7	Burst		HMG	25-Dec, 12:16
	3-5km SE	Heard	2	Explosion	Undetermined	N/K	25-Dec, 12:17
	3-5km SE	Heard	3	Explosion	Undetermined	N/K	25-Dec, 12:18
	3-5km SE	Heard	3	Burst		HMG	25-Dec, 12:19
	3-5km SE	Heard	9	Burst		HMG	25-Dec, 12:19-12:20
	3-5km SE	Heard	11	Burst		HMG	25-Dec, 12:22-12:24
	3-5km SE	Heard	2	Explosion	Undetermined	N/K	25-Dec, 12:25
	3-5km SE	Heard	2	Explosion	Undetermined	N/K	25-Dec, 12:29
	3-5km SE	Heard	4	Explosion	Undetermined	N/K	25-Dec, 12:31

	3-5km SE	Heard	4	Explosion	Undetermined	N/K	25-Dec, 12:32
	3-5km SE	Heard	6	Burst		HMG	25-Dec, 12:32-12:33
	3-5km SE	Heard	3	Explosion	Undetermined	N/K	25-Dec, 12:36
	3-5km SE	Heard	15	Burst		HMG	25-Dec, 12:37-12:38
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	25-Dec, 12:42
	3-5km SE	Heard	5	Burst		HMG	25-Dec, 12:43
	3-5km SE	Heard	2	Explosion	Undetermined	N/K	25-Dec, 12:44
	3-5km SE	Heard	3	Explosion	Undetermined	N/K	25-Dec, 12:53
	3-5km SE	Heard	11	Burst		HMG	25-Dec, 12:54-12:55
	3-5km SE	Heard	3	Explosion	Undetermined	N/K	25-Dec, 12:57
	3-5km SE	Heard	12	Burst		HMG	25-Dec, 12:58
	3-5km SE	Heard	4	Explosion	Undetermined	N/K	25-Dec, 13:01-13:02
	3-5km SE	Heard	2	Explosion	Undetermined	N/K	25-Dec, 13:12
	3-5km SE	Heard	4	Burst		HMG	25-Dec, 13:15
	3-5km SE	Heard	1	Explosion		N/K	25-Dec, 13:39
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	25-Dec, 15:05
	3-4km SE	Heard	5	Burst		HMG	25-Dec, 17:54
	1-3km SE	Heard	5	Shot		Small arms	25-Dec, 17:56
Horlivka (non-government-controlled, 39km NE of Donetsk)	2-3km NW	Heard	25	Burst		HMG	25-Dec, 14:30-14:38
	1-2km WSW	Heard	100	Shot		Small arms	25-Dec, 14:30-14:39
	1-2km WSW	Heard	3	Explosion	Undetermined	N/K	25-Dec, 14:35-14:39
	2-3km NNE	Heard	4	Explosion	Undetermined	N/K	25-Dec, 09:31-09:36

	2-3km NNE	Heard	35	Burst		HMG	25-Dec, 09:31-09:36
	2-3km NNE	Heard	15	Burst		HMG	25-Dec, 10:25-10:28
	3-4km N	Heard	2	Explosion	Undetermined	N/K	25-Dec, 11:16
	6-7km NE	Heard	3	Explosion	Undetermined	N/K	25-Dec, 11:43
	6-7km NE	Heard	34	Explosion	Undetermined	N/K	25-Dec, 11:49-11:55
	6-7km NE	Heard	34	Explosion	Undetermined	N/K	25-Dec, 11:56-12:04
	6-7km NE	Heard	32	Explosion	Undetermined	N/K	25-Dec, 12:05-12:10
	3-4km NW	Heard	3	Explosion	Undetermined	N/K	25-Dec, 12:07
	6-7km NE	Heard	25	Explosion	Undetermined	N/K	25-Dec, 12:11-12:16
	6-7km NE	Heard	13	Explosion	Undetermined	N/K	25-Dec, 12:17-12:20
5.2km N Horlivka (non-government-controlled, 39km NE of Donetsk)	6-7km NE	Heard	12	Explosion	Undetermined	N/K	25-Dec, 12:30-12:35
	6-7km NE	Heard	13	Explosion	Undetermined	N/K	25-Dec, 12:36-12:50
NNE edge of Toretsk (government-controlled, 43km N of Donetsk)	4-6km SE	Heard	4	Explosion	Undetermined	N/K	25-Dec, 11:48
	3-5km SE	Heard	2	Explosion	Undetermined	N/K	25-Dec, 11:55
	1-2km SE	Heard	3	Explosion	Undetermined	N/K	25-Dec, 12:07
About 800m E of Novoselivka (government-controlled, 31km NE of Donetsk)	2.2km ENE	Heard	10	Shot	Assessed as aimed at the SMM mini-UAV	Small arms	25-Dec, 11:17
	2.2km ENE	Heard	7	Burst		Small arms	25-Dec, 11:17
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	3-5km SE	Heard	1	Explosion	Undetermined	N/K	25-Dec, 08:48
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	25-Dec, 09:09
	3-5km NE	Heard	40	Shot		N/K	25-Dec, 09:26-09:30
	3-5km NE	Heard	30	Shot		N/K	25-Dec, 09:33
	3-5km NE	Heard	20	Burst		HMG	25-Dec, 09:33

	2-3km E	Heard	10	Burst		Small arms	25-Dec, 09:45-09:55
	2-3km E	Heard	25	Shot		Small arms	25-Dec, 09:45-09:55
	5-6km E	Heard	3	Explosion	Undetermined	N/K	25-Dec, 10:03
	3-4km S	Heard	1	Explosion	Undetermined	N/K	25-Dec, 10:16
Maiorsk (government-controlled, 45km NE of Donetsk)	2-3km W	Heard	2	Explosion	Undetermined	N/K	25-Dec, 09:06
	2-3km W	Heard	4	Explosion	Undetermined	N/K	25-Dec, 09:08
	2-3km NE	Heard	1	Explosion	Undetermined	N/K	25-Dec, 09:30
	3-5km SSW	Heard	2	Explosion	Undetermined	N/K	25-Dec, 10:04
	3-5km NNE	Heard	3	Burst		Small arms	25-Dec, 10:29
	3-5km SSE	Heard	3	Explosion	Undetermined	N/K	25-Dec, 11:49
	2km SE	Heard	2	Explosion	Undetermined	N/K	25-Dec, 12:06
	2km S	Heard	1	Explosion	Undetermined	N/K	25-Dec, 12:18
Kalynove (non-government-controlled, 60km W of Luhansk)	4-6km SW	Heard	2	Explosion	Undetermined	N/K	25-Dec, 09:45-10:00
4km N of Almazna (non-government-controlled, 55km W of Luhansk)	3km SSW	Heard	15	Shot		Small arms	25-Dec, 11:00-11:11
Almazna (non-government-controlled, 55km W of Luhansk)	10km WSW	Heard	35	Explosion	Undetermined	N/K	25-Dec, 11:45-11:57
3km NW of Almazna (non-government-controlled, 55km W of Luhansk)	10-15km SW	Heard	85	Explosion	Undetermined	N/K	25-Dec, 12:00-12:30
SMM camera in Berezove (government-controlled, 31km SW of Donetsk)	2-3km ESE	Recorded	8	Projectile	SW to NE	N/K	26-Dec, 00:10
	2-4km ESE	Recorded	1	Projectile	SW to NE	N/K	26-Dec, 00:19
	2-3km SE	Recorded	1	Illumination flare	In vertical flight	N/K	26-Dec, 00:46
SMM camera in Chermalyk	2-3km ESE	Recorded	3	Projectile	NNE to SSW	N/K	26-Dec, 04:40

(government-controlled, 77km S of Donetsk)	2-3km ESE	Recorded	1	Projectile	NNE to SSW	N/K	26-Dec, 04:41
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	5-7km S	Recorded	3	Explosion	Undetermined (also recorded by the SMM camera at Oktiabr mine)	N/K	25-Dec, 20:24
	5-7km S	Recorded	14	Explosion	Undetermined (also recorded by the SMM camera at Oktiabr mine)	N/K	25-Dec, 20:25
	300-500m S	Recorded	2	Muzzle flash		N/K	25-Dec, 20:56
	300-500m S	Recorded	1	Burst	N to S	N/K	25-Dec, 20:57
	200-400m SSW	Recorded	1	Muzzle flash		N/K	25-Dec, 21:00
	200-400m SSW	Recorded	1	Projectile	W to E	N/K	25-Dec, 21:00
	300-500m SSE	Recorded	1	Projectile	E to W	N/K	25-Dec, 21:00
	300-500m S	Recorded	2	Burst	W to E	N/K	25-Dec, 22:31
	300-500m S	Recorded	1	Projectile	N to S	N/K	25-Dec, 22:31
	300-500m S	Recorded	3	Projectile	WNW to ESE	N/K	25-Dec, 22:40
	0.8-1km S	Recorded	1	Illumination flare	In vertical flight	N/K	25-Dec, 23:03
	300-500m S	Recorded	4	Muzzle flash		N/K	25-Dec, 23:14
	300-500km S	Recorded	2	Projectile	N to S	N/K	25-Dec, 23:14
	200-400m SSW	Recorded	4	Projectile	W to E	N/K	25-Dec, 23:29
	300-500m S	Recorded	10	Muzzle flash		N/K	25-Dec, 23:30
	300-500m S	Recorded	10	Muzzle flash		N/K	26-Dec, 00:55
	300-500m S	Recorded	13	Muzzle flash		N/K	26-Dec, 00:56
	300-500m S	Recorded	4	Projectile	W to E	N/K	26-Dec, 00:56
	0.5-1km SE	Recorded	2	Explosion	Impact	N/K	26-Dec, 00:56

	300-500m S	Recorded	4	Muzzle flash		N/K	26-Dec, 01:46
	1-3km SSW	Recorded	1	Explosion	Undetermined	N/K	26-Dec, 02:45
	1-2km SSW	Recorded	1	Explosion	Undetermined	N/K	26-Dec, 17:55
	300-500m SSW	Recorded	3	Muzzle flash	Undetermined	N/K	26-Dec, 17:56
	300-500m S	Recorded	3	Projectile	W to E	N/K	26-Dec, 17:56
	300-500m SSW	Recorded	3	Muzzle flash		N/K	26-Dec, 18:02
	300-500m SSW	Recorded	5	Muzzle flash		N/K	26-Dec, 18:05
	300-500m S	Recorded	5	Projectile	W to E (subsequent to previous event)	N/K	26-Dec, 18:05
	300-500m SSW	Recorded	1	Muzzle flash		N/K	26-Dec, 18:06
	300-500m S	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	26-Dec, 18:06
	300-500m SSW	Recorded	1	Muzzle flash		N/K	26-Dec, 18:06
	300-500m SSW	Recorded	1	Projectile	NW to SE (subsequent to previous event)	N/K	26-Dec, 18:06
	300-500m SSW	Recorded	1	Muzzle flash		N/K	26-Dec, 18:07
	300-500m S	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	26-Dec, 18:07
	300-500m SSW	Recorded	2	Projectile	NNW to SSE	N/K	26-Dec, 18:09
	300-500m SSW	Recorded	4	Muzzle flash		N/K	26-Dec, 18:09
	300-500m S	Recorded	3	Projectile	W to E (subsequent to previous event)	N/K	26-Dec, 18:09
SMM camera in Hranitne (government- controlled, 60km S of Donetsk)	2-4km ESE	Recorded	6	Projectile	N to S	N/K	25-Dec, 22:14
	2-4km E	Recorded	4	Projectile	S to N	N/K	25-Dec, 22:38

	2-4km E	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	25-Dec, 22:38
	2-4km ESE	Recorded	1	Projectile	S to N	N/K	26-Dec, 00:08
	2-4km E	Recorded	2	Projectile	S to N	N/K	26-Dec, 00:09
	2-4km E	Recorded	5	Projectile	S to N	N/K	26-Dec, 00:59
	2-4km E	Recorded	3	Projectile	S to N	N/K	26-Dec, 01:00
	2-4km ESE	Recorded	1	Projectile	S to N	N/K	26-Dec, 01:51
SMM camera in Krasnohorivka (government-controlled, 21km W of Donetsk)	3-5km E	Recorded	1	Explosion	Undetermined (also recorded by SMM camera in Marinka)	N/K	26-Dec, 04:57
SMM camera in Petrivske (non-government-controlled, 41km S of Donetsk)	0.5-1km SW	Recorded	1	Projectile	NW to SE (assessed as inside the disengagement area)	N/K	19-Dec, 18:01
	0.5-1km WSW	Recorded	1	Projectile	NW to SE (assessed as inside the disengagement area)	N/K	19-Dec, 20:21
	0.5-1km SW	Recorded	3	Projectile	NW to SE (assessed as inside the disengagement area)	N/K	19-Dec, 21:34
SMM camera 1km SW of Shyrokyne (government-controlled, 100km S of Donetsk)	3-5km NNE	Recorded	4	Projectile	E to W	N/K	25-Dec, 20:35
	2-4km NNE	Recorded	2	Projectile	E to W	N/K	25-Dec, 20:51
	2-4km NNE	Recorded	1	Projectile	ESE to WNW	N/K	25-Dec, 20:52
	2-4km NNE	Recorded	3	Projectile	ESE to WNW	N/K	25-Dec, 20:53
	2-4km NNE	Recorded	1	Projectile	ESE to WNW	N/K	25-Dec, 20:55
	3-5km NNE	Recorded	1	Explosion	Undetermined	N/K	25-Dec, 21:51
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	26-Dec, 17:52
W part of Petrovskiyi (non-government-	2-3km WNW	Heard	1	Explosion	Undetermined	N/K	26-Dec, 10:32

controlled, 15km SW of Donetsk city centre)	2km W	Heard	1	Burst		Small arms	26-Dec, 10:32
	2-3km WNW	Heard	4	Explosion	Undetermined	N/K	26-Dec, 10:33
	2-3km W	Heard	2	Explosion	Undetermined	N/K	26-Dec, 10:34
	2-3km NW	Heard	1	Explosion	Undetermined	N/K	26-Dec, 10:34
	2-3km NW	Heard	3	Explosion	Undetermined	N/K	26-Dec, 10:35
	2-3km NW	Heard	3	Explosion	Undetermined	N/K	26-Dec, 10:38
	3-4km S	Heard	2	Explosion	Undetermined	N/K	26-Dec, 10:39
About 1km NW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	2-3km WSW	Heard	2	Burst		Small arms	26-Dec, 12:28
	3-4km WSW	Heard	1	Explosion	Undetermined	N/K	26-Dec, 12:28
	3-4km WSW	Heard	1	Explosion	Undetermined	N/K	26-Dec, 12:30
	3-4km WSW	Heard	23	Explosion	Undetermined	N/K	26-Dec, 12:38-12:45
	3-4km WSW	Heard	6	Explosion	Undetermined	N/K	26-Dec, 12:46-12:48
	2km WSW	Heard	1	Burst		Small arms	26-Dec, 13:25
	2km WSW	Heard	1	Explosion	Undetermined	N/K	26-Dec, 13:25
	3-4km WSW	Heard and saw	2	Explosion	Undetermined	N/K	26-Dec, 09:40
W part of Petrivske (non-government-controlled, 41km S of Donetsk)	1-2km S	Heard	3	Shot	Assessed as inside the disengagement area	Small arms	26-Dec, 09:48-09:50
	4km NNW	Heard	5	Shot	Assessed as outside the disengagement area	Small arms	26-Dec, 11:30-11:40
	3-5km NNW	Heard	1	Burst	Assessed as outside the disengagement area	HMG	26-Dec, 12:43
About 4km NW of Debaltseve (non-government-controlled, 58km NE of Donetsk)	5km NW	Heard	1	Explosion	Undetermined	N/K	26-Dec, 08:52
	4-5km W	Heard	1	Explosion	Undetermined	N/K	26-Dec, 09:10

	2km NNE	Heard	250	Burst		HMG	26-Dec, 12:00-12:20
	3-4km NNE	Heard	18	Explosion	Undetermined	N/K	26-Dec, 12:00-12:20
	3-4km N	Heard	5	Explosion	Undetermined	N/K	26-Dec, 12:00-12:20
	5km NE	Heard	6	Explosion	Undetermined	N/K	26-Dec, 12:00-12:20
2.8km NW of Debaltseve (non-government-controlled, 58km NE of Donetsk)	3-4km NNE	Heard	5	Explosion	Undetermined	N/K	26-Dec, 11:58
Debaltseve (non-government-controlled, 58km NE of Donetsk)	3km NNE	Heard	3	Explosion	Undetermined	N/K	26-Dec, 13:40-13:45
About 800m S of Novohryhorivka (non-government-controlled, 61km NE of Donetsk)	5km NNW	Heard	4	Explosion	Undetermined	N/K	26-Dec, 14:23-14:38
About 2.9km NNW of Luhanske (non-government-controlled, 15km SW of Donetsk)	2-3km SW	Heard	15	Burst		HMG	26-Dec, 12:55
	2-3km SW	Heard	1	Explosion	Undetermined	N/K	26-Dec, 12:55
Marinka (government controlled, 23km SW of Donetsk)	3-5km N	Heard	1	Explosion	Undetermined	N/K	26-Dec, 12:27
	3-5km N	Heard	2	Explosion	Undetermined	N/K	26-Dec, 12:30
2.8km NNW of Marinka (government controlled, 23km SW of Donetsk)	2-4km NE	Heard	12	Explosion	Outgoing	N/K	26-Dec, 10:33-10:47
	2-4km NE	Heard	5	Burst		HMG	26-Dec, 10:33-10:47
	2-4km NE	Heard	16	Burst		Small arms	26-Dec, 10:33-10:47
	4-8km E	Heard	12	Explosion	Impact	N/K	26-Dec, 10:33-10:47
	1-2km E	Heard	1	Burst		Small arms	26-Dec, 10:47
	2-4km NE	Heard	2	Explosion	Outgoing	N/K	26-Dec, 10:54
	2-4km NE	Heard	6	Burst		Small arms	26-Dec, 11:04-11:05
	2-4km NE	Heard		Shots and bursts	Uncountable, overlapping	Small arms	26-Dec, 11:05-11:06

2.4km WNW of Slavne (government-controlled, 26km SW of Donetsk)	3-5km NNE	Heard	1	Explosion	Undetermined	N/K	26-Dec, 12:04
	5-8km NNE	Heard	25	Explosion	Undetermined	N/K	26-Dec, 12:44-12:48
	2-3km ESE	Heard	2	Burst		Small arms	26-Dec, 12:50
	2-4km E	Heard	1	Explosion	Undetermined	N/K	26-Dec, 12:52-12:53
	2-4km E	Heard	10	Burst		Small arms	26-Dec, 12:52-12:53
	2-4km E	Heard	25	Shot		Small arms	26-Dec, 12:52-12:53
	2-4km E	Heard		Shots and bursts	Uncountable, overlapping	HMG and SALW	26-Dec, 12:54-12:56
	2-4km E	Heard	3	Explosion	Undetermined	N/K	26-Dec, 12:54-12:56
SW edge of Avdiivka (government-controlled, 17km N of Donetsk)	2-3km SE	Heard	1	Shot		Small arms	26-Dec, 11:20
	2-3km SE	Heard	2	Shot		Small arms	26-Dec, 11:25
	2-3km SE	Heard	2	Shot		Small arms	26-Dec, 11:26
	2-3km SE	Heard	1	Shot		Small arms	26-Dec, 11:34
	3-4km SE	Heard	1	Explosion	Undetermined	N/K	26-Dec, 11:37
	2-4km E	Heard	2	Explosion	Undetermined	N/K	26-Dec, 09:40
1.7km E of Avdiivka (government-controlled, 17km N of Donetsk)	8-10km S	Heard	25	Explosion	Undetermined	N/K	26-Dec, 10:32-10:37
	8-10km S	Heard	14	Explosion	Undetermined	N/K	26-Dec, 10:41-10:42
	8-10km S	Heard	5	Explosion	Undetermined	N/K	26-Dec, 10:48
Krasnohorivka (government-controlled, 21km W of Donetsk)	1-3km ESE	Heard	20	Explosion	Outgoing	N/K	26-Dec, 10:31-10:40
	2-3km ESE	Heard	2	Burst		HMG	26-Dec, 10:43
	1-3km ESE	Heard	2	Explosion	Outgoing	N/K	26-Dec, 10:47
	1-3km ESE	Heard	2	Explosion	Outgoing	N/K	26-Dec, 10:55
	1-2km S	Heard	12	Burst		HMG	26-Dec, 11:06

Chermalyk (government-controlled, 77km S of Donetsk)	3-4km SSE	Heard	1	Burst		HMG	26-Dec, 13:08
About 2km SW of Pyshchevyk (government-controlled, 84km S of Donetsk)	2-3km SSE	Heard	5	Burst		HMG	26-Dec, 11:45
	3-4km SSE	Heard	1	Burst		HMG	26-Dec, 13:08
About 2km ENE of Bohdanivka (government-controlled, 41km SW of Donetsk)	3-4km SE	Heard	5	Shot	Assessed as outside of the Petrivske disengagement area	Small arms	26-Dec, 09:50
	3-4km SE	Heard	1	Burst	Assessed as outside of the Petrivske disengagement area	Small arms	26-Dec, 09:59
Svitlodarsk (government-controlled, 57km NE of Donetsk)	4-5km SE	Heard	2	Explosion	Undetermined	N/K	25-Dec, 19:24
	3-4km SE	Heard	1	Explosion	Undetermined	N/K	25-Dec, 19:47
	4-5km SE	Heard	4	Explosion	Undetermined	N/K	25-Dec, 20:32
	4-5km SE	Heard	4	Explosion	Undetermined	N/K	25-Dec, 22:34
	5-6km SE	Heard	10	Explosion	Undetermined	N/K	26-Dec, 11:15- 11:30
	5-6km SE	Heard	14	Explosion	Undetermined	N/K	26-Dec, 11:35- 11:50
	5-6km SE	Heard	2	Explosion	Undetermined	N/K	26-Dec, 11:53- 11:55
	5-6km SE	Heard	6	Explosion	Undetermined	N/K	26-Dec, 11:56- 12:00
	5-6km SE	Heard	11	Explosion	Undetermined	N/K	26-Dec, 13:05- 13:15
	5-6km SE	Heard	12	Explosion	Undetermined	N/K	26-Dec, 13:16- 13:30
	5-6km SE	Heard	2	Explosion	Undetermined	N/K	26-Dec, 13:40
	2-3km SE	Heard	26	Burst		HMG	26-Dec, 13:42
	3-5km SE	Heard	3	Explosion	Undetermined	N/K	26-Dec, 14:30
	2-3km SE	Heard	3	Shot		Small arms	26-Dec, 14:32
	4-5km SE	Heard	1	Explosion	Undetermined	N/K	26-Dec, 17:47

Horlivka (non-government-controlled, 39km NE of Donetsk)	4-5km W	Heard	6	Explosion	Undetermined	N/K	26-Dec, 08:32-08:33
	4-5km W	Heard	6	Explosion	Undetermined	N/K	26-Dec, 11:14-11:16
SW edge of Zalizne (government-controlled, 42km NE of Donetsk)	2-3km SSE	Heard	8	Explosion	Undetermined	N/K	26-Dec, 08:32-08:34
	3-5km E	Heard	15	Burst		HMG	26-Dec, 09:15-09:23
	2-3km SE	Heard	10	Shot		Small arms	26-Dec, 10:43
	2-3km SE	Heard	8	Burst		HMG	26-Dec, 10:46
	2-3km SE	Heard	2	Burst		HMG	26-Dec, 10:48
	2-3km SE	Heard	10	Burst		HMG	26-Dec, 11:09
	2-3km SE	Heard	4	Explosion	Undetermined	N/K	26-Dec, 11:14
About 6km NW of Horlivka (non-government controlled, 39km NE of Donetsk)	3-5km SW	Heard	6	Burst		HMG	26-Dec, 10:45
	3-5km SW	Heard	6	Burst		HMG	26-Dec, 10:47
	2-4km SW	Heard	2	Shot		Small arms	26-Dec, 10:57
	3-5km SW	Heard	10	Burst		HMG	26-Dec, 11:06-11:07
	3-5km SW	Heard	1	Explosion	Outgoing	Mortar (type N/K)	26-Dec, 11:16
About 500m NE of Kamianka (government-controlled, 20km N of Donetsk)	4-5km SW	Heard	1	Explosion	Undetermined	N/K	26-Dec, 11:14
About 2.5km NE of Krasnohorivka (government-controlled, 24km N of Donetsk)	3-5km NE	Heard	6	Explosion	Undetermined	N/K	26-Dec, 11:14-11:17
Luhanske (government-controlled, 59km E of Donetsk)	4-6km SE	Heard	6	Explosion	Undetermined	N/K	26-Dec, 11:34-11:36
	4-6km SE	Heard	2	Explosion	Undetermined	N/K	26-Dec, 11:43
	4-6km SE	Heard	2	Explosion	Undetermined	N/K	26-Dec, 11:48
SE edge of Myronivskiy (government-controlled,	2-4km NE	Heard	12	Explosion	Undetermined	N/K	26-Dec, 12:00-12:04

62km NE of Donetsk)	2-4km NE	Heard	9	Explosion	Undetermined	N/K	26-Dec, 12:07-12:12
	2-4km NE	Heard	7	Explosion	Undetermined	N/K	26-Dec, 12:13-12:17
	2-4km NE	Heard	6	Burst		HMG	26-Dec, 12:13-12:17
SMM camera in Kriakivka (government-controlled, 38km NW of Luhansk)	3-5km SW	Recorded	5	Projectile	NW to SE	N/K	25-Dec, 22:30
S edge of the disengagement are near Zolote (government-controlled, 60km W of Luhansk)	8-10km SSW	Heard	10	Explosion	Undetermined	N/K	26-Dec, 11:25-11:35
Zolote-4/Rodina (government-controlled, 59km NW of Luhansk)	10-20km S	Heard	9	Explosion	Undetermined	N/K	26-Dec, 11:37-11:50
VeseloHorivka (non-government controlled, 64km W of Luhansk)	4-6km SSW	Heard	25	Explosion	Undetermined	N/K	26-Dec, 13:01-13:29
	4-6km SSW	Heard	53	Burst		HMG	26-Dec, 13:01-13:29
	4km NNW	Heard	5	Shot		Small arms	26-Dec, 13:01-13:29
N edge of Trokhizbenka (government-controlled, 32km NW of Luhansk)	3-4km SSE	Heard	1	Explosion	Undetermined	N/K	26-Dec, 14:15
Kalynove-Borshchuvate (non-government controlled, 61km W of Luhansk)	10-15km SW	Heard	5	Explosion	Undetermined	N/K	26-Dec, 14:28-14:43