

Table of ceasefire violations as of 20 February 2022¹²

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera in Berezove (government-controlled, 31km SW of Donetsk)	5-8km SE	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 01:49
	5-8km SE	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 01:51
SMM camera 2km E of Bohdanivka (government-controlled, 41km SW of Donetsk)	8-13km ESE	Recorded	1	Explosion	Undetermined (also recorded by SMM camera in Hranitne)	N/K	19-Feb, 03:35
	8-13km ESE	Recorded	1	Explosion	Undetermined (also recorded by SMM camera in Hranitne)	N/K	19-Feb, 03:39
	8-13km ESE	Recorded	1	Explosion	Undetermined (also recorded by SMM camera in Hranitne)	N/K	19-Feb, 03:40
	8-13km ESE	Recorded	1	Explosion	Undetermined (also recorded by SMM camera in Hranitne)	N/K	19-Feb, 03:41
	8-13km ESE	Recorded	1	Explosion	Undetermined (also recorded by SMM camera in Hranitne)	N/K	19-Feb, 03:42
	8-13km ESE	Recorded	1	Explosion	Undetermined (also recorded by SMM camera in Hranitne)	N/K	19-Feb, 03:44
	8-13km ESE	Recorded	1	Explosion	Undetermined (also recorded by SMM camera in Hranitne)	N/K	19-Feb, 03:49
	8-13km ESE	Recorded	1	Explosion	Undetermined (also recorded by SMM camera in Hranitne)	N/K	19-Feb, 03:50
	8-13km ESE	Recorded	1	Explosion	Undetermined (also recorded by the SMM camera in Hranitne)	N/K	19-Feb, 03:51
	8-13km ESE	Recorded	1	Explosion	Undetermined (also recorded by SMM camera in Hranitne)	N/K	19-Feb, 03:55
	8-13km ESE	Recorded	1	Explosion	Undetermined (also recorded by SMM camera in Hranitne)	N/K	19-Feb, 03:56
8-13km ESE	Recorded	1	Explosion	Undetermined (also recorded by SMM camera in Hranitne)	N/K	19-Feb, 03:57	

¹² The table only includes ceasefire violations directly observed by 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 position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	8-13km ESE	Recorded	1	Explosion	Undetermined (also recorded by SMM camera in Hranitne)	N/K	19-Feb, 03:58
	8-13km ESE	Recorded	1	Explosion	Undetermined (also recorded by SMM camera in Hranitne)	N/K	19-Feb, 03:59
	8-13km ESE	Recorded	1	Explosion	Undetermined (also recorded by SMM camera in Hranitne)	N/K	19-Feb, 04:01
	8-13km ESE	Recorded	1	Explosion	Undetermined (also recorded by SMM camera in Hranitne)	N/K	19-Feb, 04:02
	8-13km ESE	Recorded	1	Explosion	Undetermined (also recorded by SMM camera in Hranitne)	N/K	19-Feb, 04:04
	8-13km ESE	Recorded	1	Explosion	Undetermined (also recorded by SMM camera in Hranitne)	N/K	19-Feb, 04:05
	8-13km ESE	Recorded	1	Explosion	Undetermined (also recorded by the SMM camera in Hranitne)	N/K	19-Feb, 04:07
	8-13km ESE	Recorded	1	Explosion	Undetermined (also recorded by SMM camera in Hranitne)	N/K	19-Feb, 04:09
	8-13km ESE	Recorded	1	Explosion	Undetermined (also recorded by SMM camera in Hranitne)	N/K	19-Feb, 04:13
SMM camera in Hranitne (government-controlled, 60km S of Donetsk)	5-7km ESE	Recorded	3	Explosion	Undetermined (also recorded by SMM camera in Berezove)	N/K	19-Feb, 01:26
	5-7km ESE	Recorded	3	Explosion	Undetermined (also recorded by SMM camera in Berezove)	N/K	19-Feb, 01:36
	5-7km ESE	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 01:41
	5-7km ESE	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 01:50
	5-7km ESE	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 01:52
SMM camera at Oktiabr mine (non-government-controlled, 9km NW of Donetsk city centre)	3-5km NE	Recorded	1	Explosion	Undetermined	N/K	18-Feb, 22:51
	2-3km NNE	Recorded	6	Explosion	Undetermined	N/K	19-Feb, 02:26
	2-3km NNE	Recorded	4	Explosion	Undetermined	N/K	19-Feb, 02:27
SMM camera in Petrivske (non-government-controlled, 41km S of Donetsk)	4-6km WNW	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	19-Feb, 01:32
	4-6km W	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	19-Feb, 01:33
	4-6km W	Recorded	1	Explosion	Undetermined (assessed as	N/K	19-Feb, 01:48

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
					outside the disengagement area)		
	4-6km W	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	19-Feb, 01:49
SMM camera 1km SW of Shyrokyne (government-controlled, 100km S of Donetsk)	4-6km NNE	Recorded	1	Illumination flare	In vertical flight	N/K	18-Feb, 19:30
	4-6km NNE	Recorded	1	Illumination flare	In vertical flight	N/K	18-Feb, 19:59
	4-6km NNE	Recorded	1	Illumination flare	In vertical flight	N/K	18-Feb, 20:56
	5-7km N	Recorded	3	Explosion	Undetermined	N/K	19-Feb, 01:33
	6-8km N	Recorded	1	Projectile	E to W	N/K	19-Feb, 01:33
	5-7km N	Recorded	4	Explosion	Undetermined	N/K	19-Feb, 01:34
	5-7km N	Recorded	3	Explosion	Undetermined	N/K	19-Feb, 01:35
	5-7km N	Recorded	10	Explosion	Undetermined	N/K	19-Feb, 01:36
	5-7km N	Recorded	6	Explosion	Undetermined	N/K	19-Feb, 01:37
	5-7km N	Recorded	6	Explosion	Undetermined	N/K	19-Feb, 01:39
	5-7km N	Recorded	2	Explosion	Undetermined	N/K	19-Feb, 01:40
	5-7km N	Recorded	3	Explosion	Undetermined	N/K	19-Feb, 01:41
	5-7km N	Recorded	3	Explosion	Undetermined	N/K	19-Feb, 01:42
	5-7km N	Recorded	2	Explosion	Undetermined	N/K	19-Feb, 01:43
	5-7km N	Recorded	4	Explosion	Undetermined	N/K	19-Feb, 01:44
	5-7km N	Recorded	4	Explosion	Undetermined	N/K	19-Feb, 01:46
	5-7km N	Recorded	4	Explosion	Undetermined	N/K	19-Feb, 01:47
	5-7km N	Recorded	4	Explosion	Undetermined	N/K	19-Feb, 01:48
	5-7km N	Recorded	7	Explosion	Undetermined	N/K	19-Feb, 01:49
	5-7km N	Recorded	2	Explosion	Undetermined	N/K	19-Feb, 01:50
	5-7km N	Recorded	4	Explosion	Undetermined	N/K	19-Feb, 01:51
	5-7km N	Recorded	4	Explosion	Undetermined	N/K	19-Feb, 01:52
	3-5km N	Recorded	1	Projectile	In vertical flight	N/K	19-Feb, 01:57
	3-5km N	Recorded	3	Projectile	ESE to WNW	N/K	19-Feb, 01:57
	5-7km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 02:04
	5-7km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 02:06
	5-7km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 02:07
	5-7km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 02:14
	5-7km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 02:15
	5-7km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 03:35
	5-7km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 03:36
	5-7km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 03:39
	5-7km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 03:40
	5-7km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 03:41
	5-7km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 03:44
	5-7km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 03:46
	5-7km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 03:47
	5-7km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 03:49
	5-7km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 03:50
	5-7km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 03:51
5-7km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 03:52	
5-7km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 03:54	
5-7km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 03:55	
5-7km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 03:56	
5-7km N	Recorded	2	Illumination flare	In vertical flight	N/K	19-Feb, 03:57	
5-7km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 03:57	
5-7km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 03:58	
5-7km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 03:59	

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	5-7km N	Recorded	3	Explosion	Undetermined	N/K	19-Feb, 04:00
	5-7km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 04:01
	5-7km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 04:02
	5-7km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 04:04
	5-7km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 04:05
	5-7km N	Recorded	2	Explosion	Undetermined	N/K	19-Feb, 04:07
	5-7km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 04:09
	5-7km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 04:10
	5-7km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 04:13
	5-7km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 04:15
	5-7km N	Recorded	2	Explosion	Undetermined	N/K	19-Feb, 04:58
	5-7km NNE	Recorded	5	Explosion	Undetermined	N/K	19-Feb, 04:58
	5-7km N	Recorded	5	Explosion	Undetermined	N/K	19-Feb, 04:59
	5-7km NNE	Recorded	7	Explosion	Undetermined	N/K	19-Feb, 04:59
	5-7km N	Recorded	13	Explosion	Undetermined (also recorded by SMM cameras in Chermalyk and Hnutove)	N/K	19-Feb, 05:00
	5-7km NNE	Recorded	11	Explosion	Undetermined (also recorded by SMM cameras in Chermalyk and Hnutove)	N/K	19-Feb, 05:00
	5-7km N	Recorded	12	Explosion	Undetermined (also recorded by SMM cameras in Chermalyk and Hnutove)	N/K	19-Feb, 05:01
	5-7km NNE	Recorded	13	Explosion	Undetermined (also recorded by SMM cameras in Chermalyk and Hnutove)	N/K	19-Feb, 05:01
	5-7km N	Recorded	10	Explosion	Undetermined (also recorded by SMM cameras in Chermalyk and Hnutove)	N/K	19-Feb, 05:02
	5-7km NNE	Recorded	13	Explosion	Undetermined (also recorded by SMM cameras in Chermalyk and Hnutove)	N/K	19-Feb, 05:02
	5-7km N	Recorded	13	Explosion	Undetermined (also recorded by SMM cameras in Chermalyk and Hnutove)	N/K	19-Feb, 05:03
	5-7km NNE	Recorded	12	Explosion	Undetermined (also recorded by SMM cameras in Chermalyk and Hnutove)	N/K	19-Feb, 05:03
	5-7km N	Recorded	10	Explosion	Undetermined (also recorded by SMM cameras in Chermalyk and Hnutove)	N/K	19-Feb, 05:04
	5-7km NNW	Recorded	1	Explosion	Undetermined (also recorded by SMM cameras in	N/K	19-Feb, 05:04

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
					Chermalyk and Hnutove)		
	5-7km NNE	Recorded	13	Explosion	Undetermined (also recorded by SMM cameras in Chermalyk and Hnutove)	N/K	19-Feb, 05:04
	5-7km N	Recorded	12	Explosion	Undetermined (also recorded by SMM cameras in Chermalyk and Hnutove)	N/K	19-Feb, 05:05
	5-7km NNE	Recorded	11	Explosion	Undetermined (also recorded by SMM cameras in Chermalyk and Hnutove)	N/K	19-Feb, 05:05
	5-7km N	Recorded	8	Explosion	Undetermined (also recorded by SMM cameras in Chermalyk and Hnutove)	N/K	19-Feb, 05:06
	5-7km NNE	Recorded	6	Explosion	Undetermined (also recorded by SMM cameras in Chermalyk and Hnutove)	N/K	19-Feb, 05:06
	5-7km N	Recorded	11	Explosion	Undetermined (also recorded by SMM cameras in Chermalyk and Hnutove)	N/K	19-Feb, 05:07
	5-7km NNE	Recorded	4	Explosion	Undetermined (also recorded by SMM cameras in Chermalyk and Hnutove)	N/K	19-Feb, 05:07
	5-7km N	Recorded	11	Explosion	Undetermined (also recorded by SMM cameras in Chermalyk and Hnutove)	N/K	19-Feb, 05:08
	5-7km NNE	Recorded	3	Explosion	Undetermined (also recorded by SMM cameras in Chermalyk and Hnutove)	N/K	19-Feb, 05:08
	5-7km N	Recorded	9	Explosion	Undetermined (also recorded by SMM cameras in Chermalyk and Hnutove)	N/K	19-Feb, 05:09
	5-7km NNE	Recorded	2	Explosion	Undetermined (also recorded by SMM cameras in Chermalyk and Hnutove)	N/K	19-Feb, 05:09
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 05:32
Horlivka (non-government-controlled, 39km NE of Donetsk)	3-6km NW	Heard	12	Explosion	Undetermined	Artillery (type N/K)	18-Feb, 22:39-22:40
Donetsk city center (non-government-controlled)	5-7km NNE	Heard	2	Explosion	Undetermined	N/K	19-Feb, 02:47

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
Svitlodarsk (government-controlled, 57km NE of Donetsk)	3-5km SE	Heard	5	Explosion	Undetermined	N/K	19-Feb, 07:32-07:38
	3-5km SE	Heard	4	Explosion	Undetermined	N/K	19-Feb, 07:48-07:50
	3-5km E	Heard	8	Explosion	Undetermined	N/K	19-Feb, 08:16-08:20
	3-4km ESE	Heard	500	Shot		Small arms	19-Feb, 08:25-08:29
	3-5km SE	Heard	9	Explosion	Undetermined	N/K	19-Feb, 08:25-08:30
Horlivka (non-government-controlled, 39km NE of Donetsk)	4-6km NW	Heard	6	Explosion	Undetermined	N/K	19-Feb, 07:44-07:56
	3-5km SW	Heard	9	Explosion	Undetermined	N/K	19-Feb, 09:32-09:40
	3-5km SW	Heard	6	Burst		Small arms	19-Feb, 09:32-09:40
	5-6km NNW	Heard	5	Explosion	Undetermined	N/K	19-Feb, 12:30-12:37
About 6km WNW of Horlivka (non-government-controlled, 39km NE of Donetsk)	4km N	Heard	9	Explosion	Undetermined	N/K	19-Feb, 09:30-09:40
	4km S	Heard	4	Explosion	Undetermined	N/K	19-Feb, 09:30-09:40
	4km S	Heard	15	Burst		HMG	19-Feb, 09:30-09:40
	4km SSW	Heard	4	Explosion	Undetermined	N/K	19-Feb, 09:59
About 5km W of Horlivka (non-government-controlled, 39km NE of Donetsk)	3km W	Heard	2	Explosion	Undetermined	N/K	19-Feb, 13:05
About 2km SSE of Kamianka (government-controlled, 20km N of Donetsk)	3-5km SSW	Heard	11	Explosion	Undetermined	N/K	19-Feb, 09:21-09:32
SE part of Avdiivka (government-controlled, 17km N of Donetsk)					Undetermined		
	1km SE	Heard	6	Explosion		N/K	19-Feb, 08:42-08:44
About 2km S of Avdiivka (government-controlled, 17km N of Donetsk)	1-2km SE	Heard	4	Explosion	Undetermined	N/K	19-Feb, 09:20-09:23
	1-2km SE	Heard	4	Explosion	Undetermined	N/K	19-Feb, 09:26-09:28
	1-2km SE	Heard	6	Explosion	Undetermined	N/K	19-Feb, 09:32-09:36
	1-2km SE	Heard	56	Burst	Undetermined	HMG	19-Feb, 09:32-09:36
About 1.5km WNW of Yasyuvata (non-government-controlled, 16km NE of Donetsk)	1.5-2km SW	Heard	6	Explosion	Undetermined	N/K	19-Feb, 08:45-08:48
	2km SW	Heard	2	Burst	Undetermined	HMG	19-Feb, 09:40
	2-4km SW	Heard	20	Burst	Undetermined	HMG	19-Feb, 09:25-09:35
	2-4km SW	Heard	9	Explosion	Undetermined	N/K	19-Feb, 09:25-09:35
Checkpoint near Kremynets (non-government-controlled, 16km SW of Donetsk)	2km NW	Heard	16	Explosion	Outgoing	N/K	19-Feb, 11:45-12:00
	4-6km N	Heard	8	Explosion	Impact	N/K	19-Feb, 11:45-12:00
About 3km NNE of Petrovskiyi (non-government-controlled, 15km SW of Donetsk)	1-2km E	Heard	15	Explosion	Outgoing	N/K	19-Feb, 09:25-09:31
	8-9km SSW	Heard	13	Explosion	Impact	N/K	19-Feb, 09:26-09:31
About 3km ENE of Petrovskiyi (non-government-controlled, 15km SW of Donetsk)	7-9km WSW	Heard	5	Explosion	Undetermined	N/K	19-Feb, 13:02-13:04
About 3.5km S of Staromykhailivka (non-government-controlled, 15km W of Donetsk)	2-3km W	Heard	5	Explosion	Undetermined	N/K	19-Feb, 09:46
	3-4km SW	Heard	44	Explosion	Undetermined	N/K	19-Feb, 10:08-10:31
About 2.5km SSW of Staromykhailivka (non-government-controlled, 15km W of Donetsk)	1.2km W	Heard and saw	3	Explosion	Undetermined	N/K	19-Feb, 10:57-10:58
About 4.5km SW of Staromykhailivka (non-government-controlled, 15km W of Donetsk)	5-6km N	Heard	5	Explosion	Undetermined	N/K	19-Feb, 11:10-11:32
	1.1km NW	Heard	300	Burst		Small arms	19-Feb, 11:26-11:28
	1.1km NW	Heard	50	Shot		Small arms	19-Feb, 11:26-11:28
About 5.5km SW of Staromykhailivka (non-government-controlled, 15km W of Donetsk)	2km S	Heard	7	Explosion	Undetermined	N/K	19-Feb, 11:50
Mykolaivka (government-controlled, 40km S of Donetsk)	200-300m NNW	Heard	5	Explosion	Outgoing	Mortar (type N/K)	19-Feb, 10:05
About 1.5km NW of Bohdanivka (government-controlled, 41km SW of Donetsk)	2-3km N	Heard	1	Explosion	Undetermined (assessed as outside the disengagement)	N/K	19-Feb, 11:02

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
					area near Petrivske)		
	2-3km N	Heard	4	Explosion	Outgoing (assessed as outside the disengagement area near Petrivske)	Mortar (type N/K)	19-Feb, 11:05-11:10
About 700m NE of Zernove (non-government-controlled, 70km S of Donetsk)	3-5km E	Heard	3	Explosion	Undetermined	N/K	19-Feb, 12:14-12:20
SMM camera on N edge of Popasna (government-controlled, 69km W of Luhansk)	4-6km ESE	Recorded	2	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	18-Feb, 23:17
	4-6km ESE	Recorded	2	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	18-Feb, 23:18
	4-6km ESE	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	18-Feb, 23:37
	4-6km ESE	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	18-Feb, 23:41
	3-5km ESE	Recorded	1	Explosion	Undetermined	N/K	18-Feb, 23:52
	4-6km ESE	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	19-Feb, 21:57
	SMM camera at Prince Ihor Monument SE of Stanytsia Luhanska bridge (15km NE of Luhansk)	2-4km NNW	Recorded	1	Muzzle flash	Assessed as outside the disengagement area near Stanytsia Luhanska	
2-3km NNW		Recorded	1	Projectile	NW to SE (subsequent to previous event, assessed as outside the disengagement area near Stanytsia Luhanska)		19-Feb, 17:51
2-3km NNW		Recorded	1	Muzzle flash	Assessed as outside the disengagement area near Stanytsia Luhanska		19-Feb, 17:53
2-3km NNW		Recorded	1	Muzzle flash	Assessed as outside the disengagement area near		19-Feb, 17:54
2-3km NNW		Recorded	1	Muzzle flash	Assessed as outside the disengagement area near		19-Feb, 17:54

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
					Stanytsia Luhanska		
	2-3km NNW	Recorded	1	Projectile	NW to SE (subsequent to previous event, assessed as outside the disengagement area near Stanytsia Luhanska)		19-Feb, 17:54
SMM camera in Stanytsia Luhanska (government-controlled, 16km NE of Luhansk)	5-7km WSW	Recorded	8	Explosion	Undetermined		19-Feb, 17:46
	5-7km WSW	Recorded	4	Explosion	Undetermined		19-Feb, 18:04
	5-7km WSW	Recorded	8	Explosion	Undetermined		19-Feb, 18:05
SMM camera in Zolote (government-controlled, 60km W of Luhansk)	2-4km ESE	Recorded	1	Explosion	Undetermined (unable to assess if inside or outside the disengagement area)	N/K	18-Feb, 21:45
	2-4km ESE	Recorded	1	Explosion	Undetermined (unable to assess if inside or outside the disengagement area)	N/K	18-Feb, 21:45
	1-3km E	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	18-Feb, 21:47
	3-5km ESE	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	18-Feb, 21:48
	3-5km ESE	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	18-Feb, 21:52
	2-4km SSE	Recorded	1	Explosion	Undetermined (assessed as inside disengagement area)	N/K	18-Feb, 23:15
	2-4km SSE	Recorded	1	Explosion	Undetermined (assessed as inside the disengagement area)	N/K	18-Feb, 23:16
	1-2km NW	Recorded	1	Explosion	Undetermined (assessed as inside the disengagement area)	N/K	19-Feb, 00:50
	4-6km SW	Heard	1	Explosion	Undetermined	N/K	18-Feb, 23:39
Stanytsia Luhanska (government-controlled, 16km NE of Luhansk)	4-6km SW	Heard	12	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	19-Feb, 10:08-10:10

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	4-6km SW	Heard	18	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	19-Feb, 10:18-10:20
	1.5-2km SSE	Heard	11	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	19-Feb, 11:02-11:09
	1km SW	Heard	2	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	19-Feb, 11:11-11:14
	1km SSW	Heard	3	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	19-Feb, 11:19-11:20
	10-15km W	Heard	32	Explosion	Undetermined	N/K	19-Feb, 13:07-14:00
	4-6km W	Heard	32	Explosion	Undetermined	N/K	19-Feb, 13:07-14:00
	4-6km W	Heard	4	Burst		Small arms	19-Feb, 13:07-14:00
	4-6km W	Heard	28	Burst		HMG	19-Feb, 13:07-14:00
	10-15km W	Heard	8	Explosion	Undetermined	N/K	19-Feb, 14:05-14:15
	4-6km W	Heard	8	Explosion	Undetermined	N/K	19-Feb, 14:05-14:15
	4-6km W	Heard	1	Burst		HMG	19-Feb, 14:05-14:15
	2-4km WNW	Heard	7	Explosion	Undetermined	N/K	19-Feb, 16:35-16:40
	10-15km W	Heard	20	Explosion	Undetermined	N/K	19-Feb, 17:45-18:05
	3-5km S	Heard	50	Burst	Assessed as outside the disengagement area	HMG	19-Feb, 17:25-17:55
	3-5km S	Heard	40	Burst	Assessed as outside the disengagement area	Small arms	19-Feb, 17:25-18:06
	3-5km S	Heard	3	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	19-Feb, 17:50-18:05
	4-6km W	Heard	20	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	19-Feb, 15:15-15:30
	3-6km WNW	Heard	7	Explosion	Undetermined	N/K	19-Feb, 16:15-16:16
	3-5km W	Heard	8	Explosion	Undetermined	N/K	19-Feb, 16:42-16:45
	2-4km WNW	Heard	7	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	19-Feb, 16:35-16:40
	3-5km W	Heard	8	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	19-Feb, 16:42-16:45
	4-6km SW	Heard	12	Explosion	Undetermined (assessed as outside the	N/K	19-Feb, 10:08-10:10

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
					disengagement area)		
	4-6km SW	Heard	18	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	19-Feb, 10:18-10:20
Zolote (government-controlled, 60km W of Luhansk)	1-3km SW	Heard	7	Explosion	Undetermined (assessed as inside the disengagement area)	N/K	19-Feb, 11:26-11:27
	5-8km SSW	Heard	31	Explosion	Undetermined	N/K	19-Feb, 11:30-12:20
Zolote-2/Karbonit (government-controlled, 62km W of Luhansk)	6-8km SSW	Heard	6	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	19-Feb, 12:50-12:52
Zolote-3/Stakhanovets (government-controlled, 61km W of Luhansk)	7-12km SSW	Heard	16	Explosion	Undetermined	N/K	19-Feb, 12:27-12:33
Shchastia (government-controlled, 20km N of Luhansk)	1-28km SSW	Heard	5	Explosion	Undetermined	N/K	19-Feb, 11:35-11:41
	700-800m SE	Heard	2	Shot		Small arms	19-Feb, 11:35-11:41
W edge of Kadiivka (formerly Stakhanov, non-government-controlled, 50km W of Luhansk)	4-6km NW	Heard	7	Explosion	Outgoing	Artillery (type N/K)	18-Feb, 18:30-18:45
	10-15km WSW	Heard	10	Explosion	Undetermined	N/K	18-Feb, 19:20-19:45
	8-10km WSW	Heard	10	Explosion	Undetermined	N/K	19-Feb, 12:10-12:30
	5-7km W	Heard	3	Explosion	Undetermined	N/K	19-Feb, 12:10-12:30
Pervomaisk (non-government-controlled, 58km W of Luhansk)	3-5km SW	Heard	4	Explosion	Undetermined	N/K	19-Feb, 13:50
	3-5km SW	Heard	6	Explosion	Undetermined	N/K	19-Feb, 12:20-12:35
	3-5km S	Heard	2	Explosion	Undetermined	N/K	19-Feb, 12:20-12:35
	3-5km W	Heard	2	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	19-Feb, 12:20-12:35
	1-2km SW	Heard	1	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	19-Feb, 12:20-12:35
	5-7km SW	Heard	3	Explosion	Undetermined	N/K	19-Feb, 12:20-12:35
Zolote-5/Mykhailivka (non-government-controlled, 60km W of Luhansk)	5-7km W	Heard	8	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	19-Feb, 11:24-11:33
N outskirts of Luhansk (non-government-controlled)	10km NW	Heard	2	Explosion	Undetermined	N/K	19-Feb, 13:01-13:05
N edge of Popasna (government-controlled, 69km W of Luhansk).	3-6km ESE	Heard	21	Explosion	Undetermined	Artillery (type N/K)	19-Feb, 16:20-17:20
W edge of Kadiivka (formerly Stakhanov, non-government-controlled, 50km W of Luhansk)	8-12km W	Heard	53	Explosion	Undetermined	N/K	19-Feb, 16:30-17:25
	6-8km WNW	Heard	35	Explosion	Outgoing	Artillery (type N/K)	19-Feb, 16:30-17:25
	12-15km WNW	Heard	17	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	19-Feb, 16:30-17:25

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	5-7km NW	Heard	6	Explosion	Outgoing	Artillery (type N/K)	19-Feb, 16:30-17:25
	12-15km W	Heard	11	Explosion	Undetermined	N/K	19-Feb, 16:30-17:25
	5-7km W	Heard	12	Explosion	Outgoing	Artillery (type N/K)	19-Feb, 16:30-17:25
Horlivka (non-government-controlled, 39km NE of Donetsk)	1-2km S	Heard	2	Explosion	Outgoing	N/K	19-Feb, 12:09
	1-2km W	Heard	2	Explosion	Undetermined	N/K	19-Feb, 12:31-12:32
	1-2km W	Heard	4	Explosion	Undetermined	N/K	19-Feb, 12:32-12:47
SMM camera in Avdiivka (government-controlled, 17km N of Donetsk)	3-5km SSE	Recorded	1	Explosion	Undetermined	N/K	20-Feb, 01:26
	3-5km SSE	Recorded	2	Explosion	Undetermined	N/K	20-Feb, 01:27
	3-5km SSE	Recorded	1	Explosion	Undetermined	N/K	20-Feb, 01:28
	3-5km SE	Recorded	1	Explosion	Undetermined	N/K	20-Feb, 01:06
	3-5km ESE	Recorded	1	Explosion	Undetermined	N/K	20-Feb, 01:08
	3-5km SE	Recorded	1	Explosion	Undetermined	N/K	20-Feb, 01:09
	3-5km ESE	Recorded	1	Explosion	Undetermined	N/K	20-Feb, 01:10
	3-5km SE	Recorded	1	Explosion	Airburst	N/K	20-Feb, 01:11
	3-5km ESE	Recorded	1	Explosion	Undetermined	N/K	20-Feb, 01:12
	3-5km ESE	Recorded	1	Explosion	Undetermined	N/K	20-Feb, 01:13
	3-5km ESE	Recorded	1	Projectile	W to E	N/K	20-Feb, 01:21
	3-5km ESE	Recorded	1	Explosion	Undetermined	N/K	20-Feb, 01:21
	3-5km ESE	Recorded	2	Explosion	Undetermined	N/K	20-Feb, 01:21
	4-6km ESE	Recorded	3	Muzzle flash		N/K	20-Feb, 01:23
	4-6km ESE	Recorded	3	Projectile	W to E (subsequent to previous event)	N/K	20-Feb, 01:23
	4-6km ESE	Recorded	3	Explosion	Impact (subsequent to previous event)	N/K	20-Feb, 01:23
	SMM camera 2km E of Bohdanivka (government-controlled, 41km SW of Donetsk)	100-200m S	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area near Petrivske)	N/K
500-700m S		Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area near Petrivske)	N/K	20-Feb, 15:13
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	1-3km SSW	Recorded	2	Projectile	Also recorded by SMM cameras in Avdiivka	N/K	20-Feb, 18:33
	1-3km SSE	Recorded	2	Explosion	Airburst (subsequent to previous event, also recorded by SMM cameras in Avdiivka)	N/K	20-Feb, 18:33
SMM camera in Hranitne (government-controlled, 60km S of Donetsk)	1-3km E	Recorded	1	Projectile	SE to NW	N/K	19-Feb, 21:02
	3-5km SE	Recorded	2	Explosion	Undetermined	N/K	20-Feb, 01:24
	3-5km SE	Recorded	1	Explosion	Undetermined	N/K	20-Feb, 01:25
	3-5km SE	Recorded	3	Explosion	Undetermined	N/K	20-Feb, 01:26
	3-5km SE	Recorded	2	Explosion	Undetermined	N/K	20-Feb, 01:27
	2-4km ESE	Recorded	1	Projectile	S to N	N/K	20-Feb, 01:37
SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)	1-2km N	Recorded	1	Projectile	In vertical flight	N/K	19-Feb, 23:06
	1-2km N	Recorded	2	Projectile	WSW to ENE	N/K	19-Feb, 23:09
	4-5km N	Recorded	2	Projectile	WSW to ENE	N/K	19-Feb, 23:10
	4-6km NE	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 23:14
	4-5km NNE	Recorded	1	Projectile	WSW to ENE	N/K	19-Feb, 23:17
	5-6km NNE	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 23:17

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time	
	4-5km NNE	Recorded	2	Projectile	WSW to ENE	N/K	19-Feb, 23:18	
	4-6km NNE	Recorded	2	Explosion	Undetermined (subsequent to previous event)	N/K	19-Feb, 23:18	
	4-5km NNE	Recorded	1	Explosion	Airburst	N/K	19-Feb, 23:19	
	2-4km NNE	Recorded	10	Projectile	WSW to ENE	N/K	19-Feb, 23:20	
	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 23:21	
	4-5km NNE	Recorded	1	Muzzle flash		N/K	19-Feb, 23:23	
	4-5km NNE	Recorded	1	Projectile	WSW to ENE (subsequent to previous event)	N/K	19-Feb, 23:23	
	5-6km NNE	Recorded	1	Explosion	Undetermined (subsequent to previous event)	N/K	19-Feb, 23:23	
	4-5km NNE	Recorded	1	Muzzle flash		N/K	19-Feb, 23:24	
	4-6km NNE	Recorded	1	Projectile	WSW to ENE (subsequent to previous event)	N/K	19-Feb, 23:24	
	0.5-1km NNE	Recorded	2	Projectile	WNW to ESE	N/K	19-Feb, 23:26	
	2-4km NNE	Recorded	1	Projectile	WNW to ESE	N/K	19-Feb, 23:33	
	2-4km NNE	Recorded	1	Projectile	WNW to ESE	N/K	19-Feb, 23:34	
	2-4km NNE	Recorded	1	Projectile	WNW to ESE	N/K	19-Feb, 23:36	
	2-4km N	Recorded	1	Muzzle flash		N/K	19-Feb, 23:37	
	2-4km NE	Recorded	2	Projectile	ESE to WNW	N/K	19-Feb, 23:55	
	2-4km ENE	Recorded	1	Projectile	ESE to WNW	N/K	19-Feb, 23:57	
	2-4km NE	Recorded	1	Projectile	SSE to NNW	N/K	19-Feb, 23:59	
	3-5km NNE	Recorded	1	Explosion	Undetermined (subsequent to previous event)	N/K	19-Feb, 23:59	
	2-4km NNE	Recorded	1	Projectile	SE to NW	N/K	20-Feb, 00:00	
	2-4km NNE	Recorded	1	Projectile	SE to NW	N/K	20-Feb, 00:02	
	2-4km NNE	Recorded	1	Explosion	Undetermined (subsequent to previous event)	N/K	20-Feb, 00:02	
	2-4km NNE	Recorded	2	Explosion	Undetermined	N/K	20-Feb, 00:53	
	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	20-Feb, 00:54	
	2-4km NNE	Recorded	3	Explosion	Undetermined	N/K	20-Feb, 00:55	
	2-4km NNE	Recorded	2	Explosion	Undetermined	N/K	20-Feb, 00:56	
	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	20-Feb, 01:04	
	2-4km NE	Recorded	1	Explosion	Undetermined	N/K	20-Feb, 01:06	
	2-4km NE	Recorded	1	Explosion	Undetermined	N/K	20-Feb, 01:10	
	2-4km NE	Recorded	1	Explosion	Undetermined	N/K	20-Feb, 01:11	
	2-4km NE	Recorded	1	Explosion	Undetermined	N/K	20-Feb, 01:23	
	SMM camera at Oktiabr mine (non-government-controlled, 9km NW of Donetsk city centre)	2-3km W	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 23:04
		2-3km W	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 23:06
		2-3km W	Recorded	3	Explosion	Undetermined	N/K	19-Feb, 23:08
2-3km W		Recorded	1	Explosion	Undetermined	N/K	19-Feb, 23:09	
2-3km W		Recorded	1	Explosion	Undetermined	N/K	19-Feb, 23:10	
2-3km W		Recorded	1	Explosion	Undetermined	N/K	19-Feb, 23:11	
4-5km WSW		Recorded	6	Muzzle flash		N/K	19-Feb, 23:18	
4-5km WSW		Recorded	1	Explosion	Undetermined	N/K	19-Feb, 23:33	
4-6km WSW		Recorded	5	Explosion	Undetermined	N/K	20-Feb, 00:52	
4-6km WSW		Recorded	1	Explosion	Undetermined	N/K	20-Feb, 00:53	
4-6km WSW		Recorded	1	Explosion	Undetermined	N/K	20-Feb, 00:54	
4-6km WSW		Recorded	2	Explosion	Undetermined	N/K	20-Feb, 00:55	
4-6km WSW		Recorded	2	Explosion	Undetermined	N/K	20-Feb, 00:56	
4-6km WSW		Recorded	1	Explosion	Undetermined	N/K	20-Feb, 01:04	
4-6km WSW		Recorded	1	Explosion	Undetermined	N/K	20-Feb, 01:05	
4-6km WSW		Recorded	1	Explosion	Undetermined	N/K	20-Feb, 01:06	
1-3km W		Recorded	1	Explosion	Undetermined	N/K	20-Feb, 05:36	

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time	
	1-3km W	Recorded	1	Explosion	Undetermined	N/K	20-Feb, 05:37	
	5-7km ENE	Recorded	1	Explosion	Undetermined	N/K	20-Feb, 05:33	
SMM camera 1km SW of Shyrokyne (government-controlled, 100km S of Donetsk)	5-7km N	Recorded	1	Illumination flare	In vertical flight	N/K	19-Feb, 19:51	
	5-7km N	Recorded	9	Projectile	WSW to ENE	N/K	19-Feb, 21:52	
	5-7km NNW	Recorded	2	Explosion	Undetermined	N/K	19-Feb, 22:54	
	5-7km N	Recorded	6	Projectile	WSW to ENE	N/K	19-Feb, 23:07	
	5-7km N	Recorded	4	Projectile	ESE to WNW	N/K	19-Feb, 23:08	
	5-7km N	Recorded	6	Projectile	WSW to ENE	N/K	19-Feb, 23:08	
	5-7km N	Recorded	2	Projectile	WSW to ENE	N/K	19-Feb, 23:52	
	5-7km N	Recorded	7	Projectile	ESE to WNW	N/K	20-Feb, 00:03	
	5-7km N	Recorded	8	Projectile	ESE to WNW	N/K	20-Feb, 00:04	
	5-7km N	Recorded	1	Projectile	ESE to WNW	N/K	20-Feb, 00:15	
	5-7km N	Recorded	4	Projectile	ESE to WNW	N/K	20-Feb, 00:16	
	5-7km N	Recorded	2	Projectile	ESE to WNW	N/K	20-Feb, 00:18	
	5-7km N	Recorded	4	Projectile	ESE to WNW	N/K	20-Feb, 00:46	
	5-7km N	Recorded	2	Projectile	ESE to WNW	N/K	20-Feb, 00:47	
	5-7km N	Recorded	1	Projectile	ESE to WNW	N/K	20-Feb, 00:48	
	5-7km N	Recorded	2	Projectile	WSW to ENE	N/K	20-Feb, 01:20	
	5-7km N	Recorded	1	Explosion	Undetermined	N/K	20-Feb, 02:24	
	5-7km N	Recorded	1	Explosion	Undetermined	N/K	20-Feb, 02:25	
	5-7km N	Recorded	2	Explosion	Undetermined	N/K	20-Feb, 02:27	
	5-7km NNW	Recorded	1	Explosion	Undetermined	N/K	20-Feb, 02:28	
	5-7km N	Recorded	2	Explosion	Undetermined	N/K	20-Feb, 02:29	
	5-7km NNW	Recorded	1	Explosion	Undetermined	N/K	20-Feb, 02:29	
	4-6km N	Recorded	1	Projectile	E to W	N/K	20-Feb, 18:12	
	SMM camera in Svitlodarsk (government-controlled, 57km NE of Donetsk)	3-5km SW	Recorded	15	Explosion	Airburst	N/K	20-Feb, 04:52
		3-5km SW	Recorded	4	Explosion	Undetermined	N/K	20-Feb, 04:52
		3-5km SW	Recorded	1	Explosion	Undetermined	N/K	20-Feb, 04:53
Horlivka (non-government-controlled, 39km NE of Donetsk)	3-5km NW	Heard	10	Explosion	Undetermined	N/K	19-Feb, 18:55-19:06	
	3-4km NW	Heard	3	Explosion	Undetermined	N/K	19-Feb, 19:16	
	5-6km NW	Heard	3	Explosion	Undetermined	N/K	19-Feb, 19:16	
	3-4km NW	Heard	3	Explosion	Undetermined	N/K	20-Feb, 09:01	
	3-4km NW	Heard	2	Explosion	Undetermined	N/K	20-Feb, 09:54	
	3-4km NW	Heard	3	Explosion	Undetermined	N/K	20-Feb, 16:46	
About 5km W of Horlivka (non-government-controlled, 39km NE of Donetsk)	50-60m W	Heard and saw	2	Explosion	Impact	N/K	20-Feb, 09:50	
Donetsk city center (non-government-controlled)	5-8km WNW	Heard	9	Explosion	Outgoing	N/K	20-Feb, 01:00-01:05	
	5-8km WNW	Heard	5	Explosion	Outgoing	N/K	20-Feb, 01:15-01:35	
	5-8km WNW	Heard	4	Explosion	Outgoing	N/K	20-Feb, 01:40-01:55	
	5-8km WNW	Heard	28	Explosion	Outgoing	N/K	20-Feb, 02:45-03:00	
	5-8km WNW	Heard	3	Explosion	Outgoing	N/K	20-Feb, 03:00-03:30	
	1-3km W	Heard	17	Explosion	Outgoing	N/K	20-Feb, 03:05-03:35	
	5-8km WNW	Heard	2	Explosion	Undetermined	N/K	20-Feb, 04:27-04:30	
	5-8km WNW	Heard	20	Explosion	Undetermined	N/K	20-Feb, 05:02-05:10	
	5-8km WNW	Heard	6	Explosion	Undetermined	N/K	20-Feb, 05:21-05:29	
	7-8km SW	Heard	34	Explosion	Undetermined	N/K	20-Feb, 09:30-09:40	
	7-8km SW	Heard	22	Explosion	Outgoing	N/K	20-Feb, 09:45-10:00	
	7-8km SW	Heard	3	Explosion	Outgoing	N/K	20-Feb, 10:10-10:15	
	8-10km NNW	Heard	15	Explosion	Undetermined	N/K	20-Feb, 09:55-11:01	
	5-6km NNW	Heard	1	Explosion	Undetermined	N/K	20-Feb, 11:55	
Near Kremynets (non-government-controlled, 16km SW of Donetsk)	2km NW	Heard	11	Explosion	Outgoing	Artillery (type N/K)	20-Feb, 09:55-10:02	
	15km W	Heard	11	Explosion	Impact	Artillery (type N/K)	20-Feb, 09:55-10:02	
	1km S	Heard	1	Explosion	Outgoing	Artillery (type N/K)	20-Feb, 09:55-10:02	
	1km SW	Heard	1	Explosion	Outgoing	Artillery (type N/K)	20-Feb, 09:55-10:02	

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
About 1km NW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	3-4km NW	Heard	3	Shot		Small arms	20-Feb, 09:16
	8km SW	Heard	33	Explosion	Undetermined	N/K	20-Feb, 09:32-09:43
	8km SW	Heard	16	Explosion	Undetermined	N/K	20-Feb, 09:53-10:05
Railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	6-8km SW	Heard	50	Explosion	Undetermined	N/K	20-Feb, 10:27-10:42
Staromykhailivka (non-government-controlled, 15km W of Donetsk)	1-3km W	Heard	2	Explosion	Undetermined	N/K	20-Feb, 13:42
About 2km NE of Starolaspa (non-government-controlled, 51km S of Donetsk)	4-6km NW	Heard	3	Explosion	Undetermined	N/K	20-Feb, 14:32
	4-6km NW	Heard	11	Explosion	Undetermined	N/K	20-Feb, 14:33-14:37
	4-6km NW	Heard	5	Explosion	Undetermined	N/K	20-Feb, 14:38-14:45
	4-6km NW	Heard	2	Explosion	Undetermined	N/K	20-Feb, 14:50
About 2km SSE of Kamianka (government-controlled, 20km N of Donetsk)	4-6km S	Heard	4	Explosion	Undetermined	N/K	20-Feb, 09:41
About 600m NE of Lebedynske (government-controlled, 99km S of Donetsk)	3-4km N	Heard	3	Explosion	Undetermined	N/K	20-Feb, 10:12
About 3km SW of Lebedynske (government-controlled, 99km S of Donetsk)	4km NNE	Heard	8	Explosion	Undetermined	N/K	20-Feb, 13:20-13:30
Hnutove (government-controlled, 90km S of Donetsk)	4-6km ENE	Heard	2	Explosion	Undetermined	N/K	20-Feb, 11:55
SMM camera in Kriakivka (government-controlled, 38km NW of Luhansk)	1-2km SSW	Recorded	1	Illumination flare	In vertical flight	N/K	19-Feb, 20:56
	1-3km S	Recorded	1	Illumination flare	In vertical flight	N/K	19-Feb, 21:01
	1-3km S	Recorded	1	Illumination flare	In vertical flight	N/K	19-Feb, 23:00
	1-2km SW	Recorded	1	Illumination flare	In vertical flight	N/K	19-Feb, 23:02
	1-3km SSW	Recorded	1	Illumination flare	In vertical flight	N/K	20-Feb, 01:00
	2-4km S	Recorded	1	Illumination flare	In vertical flight	N/K	20-Feb, 03:03
SMM camera on N edge of Popasna (government-controlled, 69km W of Luhansk)	4-5km ESE	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 21:14
	2-4km SSE	Recorded	2	Explosion	Undetermined	N/K	20-Feb, 17:52
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	20-Feb, 17:54
	2-4km SSE	Recorded	3	Explosion	Undetermined	N/K	20-Feb, 17:55
	2-4km SSE	Recorded	2	Explosion	Undetermined	N/K	20-Feb, 17:57
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	20-Feb, 17:59
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	20-Feb, 18:00
SMM camera in Zolote (government-controlled, 60km W of Luhansk)	1-3km ENE	Recorded	1	Illumination flare	In vertical flight (also recorded by SMM camera in Popasna, assessed as outside the disengagement area)	N/K	19-Feb, 20:13
	1-3km ENE	Recorded	1	Illumination flare	In vertical flight (also recorded by SMM camera in Popasna, assessed as outside the disengagement area)	N/K	19-Feb, 20:14

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	3-5km E	Recorded	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	20-Feb, 17:39
	4-6km E	Recorded	1	Illumination flare	In vertical flight (also recorded by the SMM camera in Popasna, assessed as outside the disengagement area)	N/K	20-Feb, 18:01
	4-6km E	Recorded	1	Illumination flare	In vertical flight (also recorded by the SMM camera in Popasna, assessed as outside the disengagement area)	N/K	20-Feb, 18:34
	4-6km E	Recorded	1	Illumination flare	In vertical flight (also recorded by the SMM camera in Popasna, assessed as outside the disengagement area)	N/K	20-Feb, 18:42
	4-6km E	Recorded	1	Illumination flare	In vertical flight (also recorded by the SMM camera in Popasna, assessed as outside the disengagement area)	N/K	20-Feb, 18:50
	2-4km E	Recorded	1	Projectile	SSW to NNE (assessed as outside the disengagement area near Zolote)	N/K	20-Feb, 18:51
	2-4km E	Recorded	1	Explosion	Impact (subsequent to previous event, assessed as outside the disengagement area)	N/K	20-Feb, 18:51
	2-4km E	Recorded	1	Projectile	SSW to NNE (assessed as outside the disengagement area)	N/K	20-Feb, 18:54
	4-6km E	Recorded	1	Illumination flare	In vertical flight (assessed as outside the disengagement area)	N/K	20-Feb, 18:56
	2-4km ESE	Recorded	1	Muzzle flash	Assessed as outside the disengagement area	N/K	19-Feb, 19:51

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
Stanytsia Luhanska (government-controlled, 16km NE of Luhansk)	2-4km S	Heard	35	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	19-Feb, 19:50-20:00
	2-4km S	Heard	1	Burst	Assessed as outside the disengagement area	Small arms	19-Feb, 19:55
	2-4km S	Heard	25	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	19-Feb, 20:26-20:30
	2-4km W	Heard	7	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	19-Feb, 22:05-22:15
	2-4km S	Heard	14	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	19-Feb, 19:10-19:35
	2-4km S	Heard	2	Burst	Assessed as outside the disengagement area	Small arms	19-Feb, 19:10-19:35
	4-6km SW	Heard	2	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	20-Feb, 01:36-01:38
	3-5km S	Heard	9	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	20-Feb, 04:15-04:25
	8-10km WNW	Heard	10	Explosion	Undetermined	N/K	20-Feb, 07:25-07:40
	2-3km S	Heard	22	Explosion	Impact (assessed as outside the disengagement area)	N/K	20-Feb, 16:30-17:30
Hirske (government-controlled, 63km W of Luhansk)	8-10km S	Heard	11	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	20-Feb, 09:37-09:42
Raihorodka (government-controlled, 34km NW of Luhansk)	5-8km SW	Heard	19	Explosion	Undetermined	N/K	19-Feb, 10:40-10:54
Popasna (government-controlled, 69km W of Luhansk)	4-8km ESE	Heard	16	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	20-Feb, 15:35-15:42
Kadiivka (formerly Stakhanov, non-government-controlled, 50km W of Luhansk)	4-5km WSW	Heard	5	Explosion	Outgoing	Artillery (type N/K)	19-Feb, 19:22-19:45
	13-16km W	Heard	4	Explosion	Impact	Artillery (type N/K)	19-Feb, 19:22-19:45
Luhansk (non-government-controlled)	10-15km SE	Heard	12	Explosion	Undetermined	N/K	19-Feb, 17:48-17:53
	5-10km S	Heard	3	Explosion	Undetermined	N/K	19-Feb, 18:07-18:08
	10-15km SE	Heard	8	Explosion	Undetermined	N/K	19-Feb, 18:08-18:12

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
Near Pervomaisk (non-government-controlled, 58km W of Luhansk)	10-12km SSW	Heard	12	Explosion	Undetermined	N/K	20-Feb, 10:04-10:21
	5-7km E	Heard	4	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	20-Feb, 10:40-10:44
	5-7km E	Heard	5	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	20-Feb, 10:49-10:52
	5-6km NNW	Heard	10	Explosion	Undetermined (assessed as outside the disengagement area near Zolote)	N/K	20-Feb, 12:32-12:42
	4-6km N	Heard	9	Explosion	Impact (assessed as outside the disengagement area near Zolote)	N/K	20-Feb, 09:33-09:41
	5-7km E	Heard	10	Explosion	Outgoing (assessed as outside the disengagement area near Zolote)	N/K	20-Feb, 09:33-09:41
	10-12km SW	Heard	3	Explosion	Impact	N/K	20-Feb, 11:24-11:35
	7-9km SE	Heard	7	Explosion	Outgoing	N/K	20-Feb, 11:24-11:35
Donetskiy (non-government-controlled, 49km W of Luhansk)	2-3km W	Heard	2	Explosion	Undetermined	N/K	20-Feb, 10:50-10:52
	2-3km S	Heard	2	Explosion	Undetermined	N/K	20-Feb, 10:50-10:52
	2-3km NE	Heard	1	Explosion	Undetermined	N/K	20-Feb, 10:50-10:52
Holubivka (formerly Kirovsk, non-government-controlled, 51km W of Luhansk)	1km SSW	Heard	10	Explosion	Outgoing	N/K	20-Feb, 10:38-10:40
Irmino (non-government-controlled, 54km W of Luhansk)	1km NE	Heard	15	Explosion	Outgoing (assessed as outside the disengagement area near Zolote)	N/K	20-Feb, 14:01-14:11
	7km NE	Heard	3	Explosion	Outgoing	N/K	20-Feb, 14:01-14:11
	12-15km NE	Heard	5	Explosion	Impact	N/K	20-Feb, 14:01-14:11