Table of ceasefire violations as of 20 February 2022¹²

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera in Berezove	5-8km SE	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 01:49
(government-controlled, 31km	5 01 GF					27/77	10 F 1 01 51
SW of Donetsk) SMM camera 2km E of	5-8km SE	Recorded	1	Explosion	Undetermined Undetermined	N/K	19-Feb, 01:51
Bohdanivka (government- controlled, 41km SW of Donetsk)	8-13km ESE	Recorded	1	Explosion	(also recorded by SMM camera in Hranitne)	N/K	19-Feb, 03:35
					Undetermined (also recorded by SMM camera in		
	8-13km ESE	Recorded	1	Explosion	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
	0.121 ESE	D 1.1	1	F 1 :	Undetermined (also recorded by SMM camera in	NUL	10 E 1 02 41
	8-13km ESE	Recorded	1	Explosion	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
					Undetermined (also recorded by SMM camera in		
	8-13km ESE	Recorded	1	Explosion	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
					Undetermined (also recorded by SMM camera in		
	8-13km ESE	Recorded	1	Explosion	Hranitne) Undetermined	N/K	19-Feb, 03:50
	8-13km ESE	Recorded	1	Explosion	(also recorded by the SMM camera in Hranitne)	N/K	19-Feb, 03:51
					Undetermined (also recorded by SMM camera in		
	8-13km ESE	Recorded	1	Explosion	Hranitne)	N/K	19-Feb, 03:55
					Undetermined (also recorded by SMM camera in		40.71.03.55
	8-13km ESE	Recorded	1	Explosion	Hranitne) Undetermined (also recorded by	N/K	19-Feb, 03:56
	8-13km ESE	Recorded	1	Evaluation	SMM camera in	N/W	19-Feb, 03:57
	0-13KIII ESE	Recorded	1	Explosion	Hranitne)	N/K	19-100, 05.57

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
					Undetermined (also recorded by SMM camera in		
	8-13km ESE	Recorded	1	Explosion	Hranitne)	N/K	19-Feb, 03:58
					Undetermined (also recorded by SMM camera in		
	8-13km ESE	Recorded	1	Explosion	Hranitne)	N/K	19-Feb, 03:59
					Undetermined (also recorded by SMM camera in		
	8-13km ESE	Recorded	1	Explosion	Hranitne)	N/K	19-Feb, 04:01
					Undetermined (also recorded by SMM camera in		
	8-13km ESE	Recorded	1	Explosion	Hranitne)	N/K	19-Feb, 04:02
					Undetermined (also recorded by SMM camera in		
	8-13km ESE	Recorded	1	Explosion	Hranitne)	N/K	19-Feb, 04:04
	0.121 FGF				Undetermined (also recorded by SMM camera in	NUZ	10 5 1 04 05
	8-13km ESE	Recorded	1	Explosion	Hranitne) Undetermined (also recorded by the SMM camera	N/K	19-Feb, 04:05
	8-13km ESE	Recorded	1	Explosion	in Hranitne)	N/K	19-Feb, 04:07
					Undetermined (also recorded by SMM camera in		
	8-13km ESE	Recorded	1	Explosion	Hranitne) Undetermined	N/K	19-Feb, 04:09
	9 12l ECE	Darandad	1	Employing	(also recorded by SMM camera in	NI/IZ	10 E-b 04.12
SMM camera in Hranitne (government-controlled, 60km	8-13km ESE	Recorded	1	Explosion	Hranitne) Undetermined (also recorded by	N/K	19-Feb, 04:13
S of Donetsk)	5-7km ESE	Recorded	3	Explosion	SMM camera in Berezove)	N/K	19-Feb, 01:26
	6 7 min 262	Teecoraca		2presion	Undetermined (also recorded by SMM camera in	1 1 1 1	19 140, 01120
	5-7km ESE	Recorded	3	Explosion	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 N/K	19-Feb, 01:50
SMM camera at Oktiabr mine	5-7km ESE 3-5km NE	Recorded Recorded	1	Explosion Explosion	Undetermined Undetermined	N/K N/K	19-Feb, 01:52 18-Feb, 22:51
(non-government-controlled,	2-3km NNE	Recorded	6	Explosion	Undetermined	N/K	19-Feb, 02:26
9km NW of Donetsk city centre)	2-3km NNE	Recorded	4	Explosion	Undetermined	N/K	19-Feb, 02:27
SMM camera in Petrivske non-government-controlled, 11km S of Donetsk)					Undetermined (assessed as outside the disengagement		
	4-6km WNW	Recorded	1	Explosion	area) Undetermined (assessed as outside the	N/K	19-Feb, 01:32
	4-6km W	Recorded	1	Explosion	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)		
					Undetermined (assessed as outside the disengagement		
	4-6km W	Recorded	1	Explosion	area)	N/K	19-Feb, 01:49
SMM camera 1km SW of Shyrokyne (government-	4-6km NNE	Recorded	1	Illumination flare	In vertical flight	N/K	18-Feb, 19:30
controlled, 100km S of Donetsk)	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 Recorded	1	Explosion Explosion	Undetermined	N/K N/K	19-Feb, 03:39
	5-7km N 5-7km N	Recorded	1 1	Explosion	Undetermined Undetermined	N/K	19-Feb, 03:40 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
				Illumination			
	5-7km N	Recorded	2	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) Undetermined (also recorded by SMM cameras in	N/K	19-Feb, 05:00
					Chermalyk and		
	5-7km NNE	Recorded	11	Explosion	Hnutove)	N/K	19-Feb, 05:00
	5-7km N	Recorded	12	Explosion	Undetermined (also recorded by SMM cameras in Chermalyk and Hnutove) Undetermined	N/K	19-Feb, 05:01
	5-7km NNE	Recorded	13	Explosion	(also recorded by SMM cameras in Chermalyk and Hnutove) Undetermined	N/K	19-Feb, 05:01
	5-7km N	Recorded	10	Explosion	(also recorded by SMM cameras in Chermalyk and Hnutove) Undetermined	N/K	19-Feb, 05:02
	5-7km NNE	Recorded	13	Explosion	(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
	J-/KIII IN	Recorded	13	Pyhiosioii	Undetermined	11/12	19-17-00, 003.00
	5-7km NNE	Recorded	12	Explosion	(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
					Undetermined (also recorded by		
	5-7km NNW	Recorded	1	Explosion	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
	3-7KIII ININE	Recorded	13	Explosion	Undetermined	IV/K	19-100, 03.04
	5-7km N	Recorded	12	Explosion	(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
	551.)		0		Undetermined (also recorded by SMM cameras in Chermalyk and		10.77.1.05.07
	5-7km N	Recorded	8	Explosion	Hnutove) Undetermined	N/K	19-Feb, 05:06
	5-7km NNE	Recorded	6	Explosion	(also recorded by SMM cameras in Chermalyk and Hnutove)	N/K	19-Feb, 05:06
					Undetermined (also recorded by SMM cameras in Chermalyk and		
	5-7km N	Recorded	11	Explosion	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
					Undetermined (also recorded by SMM cameras in Chermalyk and		
	5-7km NNE	Recorded	3	Explosion	Hnutove) Undetermined (also recorded by SMM cameras in Chermalyk and	N/K	19-Feb, 05:08
	5-7km N	Recorded	9	Explosion	Hnutove) Undetermined (also recorded by SMM cameras in Chermalyk and	N/K	19-Feb, 05:09
	5-7km NNE	Recorded	2	Explosion	Hnutove)	N/K	19-Feb, 05:09
Horlivka (non-government-	3-5km N	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 05:32
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-	3-5km SE	Heard	5	Explosion	Undetermined	N/K	19-Feb, 07:32-07:38
controlled, 57km NE of	3-5km SE	Heard	4	Explosion	Undetermined	N/K	19-Feb, 07:48-07:50
Donetsk)	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-	4-6km NW	Heard	6	Explosion	Undetermined	N/K	19-Feb, 07:44-07:56
controlled, 39km NE of	3-5km SW	Heard	9	Explosion	Undetermined	N/K	19-Feb, 09:32-09:40
Donetsk)	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	4km N	Heard	9	Explosion	Undetermined	N/K	19-Feb, 09:30-09:40
(non-government-controlled,	4km S	Heard	4	Explosion	Undetermined	N/K	19-Feb, 09:30-09:40
39km NE of Donetsk)	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) About 2km SSE of Kamianka	3km W	Heard	2	Explosion	Undetermined	N/K	19-Feb, 13:05
(government-controlled, 20km	2 5km CCW	Hoord	11	Evalorion	Undetermined	N/W	10 Eab 00:21 00:22
N of Donetsk) SE part of Avdiivka	3-5km SSW	Heard	11	Explosion	Undetermined Undetermined	N/K	19-Feb, 09:21-09:32
(government-controlled, 17km					Undetermined		
N of Donetsk)	1km SE	Heard	6	Explosion		N/K	19-Feb, 08:42-08:44
About 2km S of Avdiivka	1-2km SE	Heard	4	Explosion	Undetermined	N/K	19-Feb, 09:20-09:23
(government-controlled, 17km	1-2km SE	Heard	4	Explosion	Undetermined	N/K	19-Feb, 09:26-09:28
N of Donetsk)	1-2km SE	Heard	6	Explosion	Undetermined	N/K	19-Feb, 09:32-09:36
1, 01 2 010 (012)	1-2km SE	Heard	56	Burst	Undetermined	HMG	19-Feb, 09:32-09:36
About 1.5km WNW of	1.5-2km SW	Heard	6		Undetermined	N/K	
Yasynuvata (non-government-				Explosion			19-Feb, 08:45-08:48
controlled, 16km NE of	2km SW	Heard	2	Burst	Undetermined	HMG	19-Feb, 09:40
Donetsk)	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 Kreminets (non-government-controlled, 16km SW of Donetsk)	2km NW 4-6km N	Heard Heard	16 8	Explosion Explosion	Outgoing Impact	N/K N/K	19-Feb, 11:45-12:00 19-Feb, 11:45-12:00
About 3km NNE of Petrovskyi	1-2km E	Heard	15	Explosion	Outgoing	N/K	19-Feb, 09:25-09:31
(non-government-controlled,	1-2KIII E	Heard	13	Explosion	Outgoing	IV/K	19-100, 09.23-09.31
15km SW of Donetsk)	8-9km SSW	Heard	13	Explosion	Impact	N/K	19-Feb, 09:26-09:31
About 3km ENE of Petrovskyi (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	2-3km W	Heard	5	Explosion	Undetermined	N/K	19-Feb, 09:46
Staromykhailivka (non-	Z-JKIII VV	Ticara		Lapiosion	Chacterininea	TVIX	17-100, 07.40
government-controlled, 15km W of Donetsk)	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	5-6km N	Heard	5	Explosion	Undetermined	N/K	19-Feb, 11:10-11:32
Staromykhailivka (non-	1.1km NW	Heard	300	Burst	- Indetermined	Small arms	19-Feb, 11:26-11:28
government-controlled, 15km W of Donetsk)	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-	200-300m					Mortar (type	
controlled, 40km S of Donetsk) About 1.5km NW of Bohdanivka (government-	NNW	Heard	5	Explosion	Outgoing Undetermined (assessed as	N/K)	19-Feb, 10:05
controlled, 41km SW of Donetsk)	2-3km N	Heard	1	Explosion	outside the disengagement	N/K	19-Feb, 11:02

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
					area near		
		-			Petrivske) Outgoing		
					(assessed as		
					outside the		
					disengagement		
	2-3km N	Heard	4	Explosion	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					Undetermined		
Popasna (government- controlled, 69km W of					(assessed as outside the		
Luhansk)					disengagement		
Euriumsk)	4-6km ESE	Recorded	2	Explosion	area near Zolote)	N/K	18-Feb, 23:17
				· ·	Undetermined		,
					(assessed as		
					outside the		
	4-6km ESE	Recorded	2	Explosion	disengagement area near Zolote)	N/K	18-Feb, 23:18
	4-0KIII ESE	Recorded		Explosion	Undetermined	IVIX	16-1'60, 23.16
					(assessed as		
					outside the		
					disengagement		
	4-6km ESE	Recorded	1	Explosion	area near Zolote)	N/K	18-Feb, 23:37
					Undetermined		
					(assessed as outside the		
					disengagement		
	4-6km ESE	Recorded	1	Explosion	area near Zolote)	N/K	18-Feb, 23:41
	3-5km ESE	Recorded	1	Explosion	Undetermined	N/K	18-Feb, 23:52
					Undetermined		
					(assessed as		
					outside the disengagement		
	4-6km ESE	Recorded	1	Explosion	area near Zolote)	N/K	19-Feb, 21:57
SMM camera at Prince Ihor				•	Assessed as		
Monument SE of Stanytsia					outside the		
Luhanska bridge (15km NE of					disengagement		
Luhansk)					area near Stanytsia		
	2-4km NNW	Recorded	1	Muzzle flash	Luhanska		19-Feb, 17:51
					NW to SE		
					(subsequent to		
					previous event,		
					assessed as		
					outside the disengagement		
					area near		
					Stanytsia		
	2-3km NNW	Recorded	1	Projectile	Luhanska)		19-Feb, 17:51
					Assessed as		
					outside the	1	
					disengagement		
	2-3km NNW	Recorded	1	Muzzle flash	disengagement area near Stanytsia Luhanska		19-Feb, 17:53
	2-3km NNW	Recorded	1	Muzzle flash	disengagement area near Stanytsia Luhanska Assessed as		19-Feb, 17:53
	2-3km NNW	Recorded	1	Muzzle flash	disengagement area near Stanytsia Luhanska		19-Feb, 17:53

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
					Stanytsia		
					Luhanska		
					NW to SE		
					(subsequent to		
					previous event,		
					assessed as		
					outside the		
					disengagement area near		
					Stanytsia		
	2-3km NNW	Recorded	1	Projectile	Luhanska)		19-Feb, 17:54
SMM company in Stanyitain	5-7km WSW	Recorded		Explosion	Undetermined		
SMM camera in Stanytsia Luhanska (government-			8				19-Feb, 17:46
controlled, 16km NE of	5-7km WSW	Recorded	4	Explosion	Undetermined		19-Feb, 18:04
Luhansk)	5-7km WSW	Recorded	8	Explosion	Undetermined		19-Feb, 18:05
SMM camera in Zolote	3 7KH 11 511	recorded		Expression	Undetermined		17 1 60, 10.05
(government-controlled, 60km					(unable to assess		
W of Luhansk)					if inside or		
					outside the		
					disengagement		
	2-4km ESE	Recorded	1	Explosion	area)	N/K	18-Feb, 21:45
				· ·	Undetermined		
					(unable to assess		
					if inside or		
					outside the		
					disengagement		
	2-4km ESE	Recorded	1	Explosion	area)	N/K	18-Feb, 21:45
					Undetermined		
					(assessed as		
					outside the		
					disengagement		
	1-3km E	Recorded	1	Explosion	area)	N/K	18-Feb, 21:47
					Undetermined		
					(assessed as		
					outside the		
					disengagement		
	3-5km ESE	Recorded	1	Explosion	area)	N/K	18-Feb, 21:48
					Undetermined		
					(assessed as		
					outside the		
	2.51 EGE				disengagement	37/77	10 E 1 21 52
	3-5km ESE	Recorded	1	Explosion	area)	N/K	18-Feb, 21:52
					Undetermined		
					(assessed as		
					inside		
	2 Alem CCE	Dagardad	1	Evaluation	disengagement	NI/IZ	10 Eab 22.15
	2-4km SSE	Recorded	1	Explosion	area)	N/K	18-Feb, 23:15
					Undetermined		
					(assessed as inside the		
					disengagement		
	2-4km SSE	Recorded	1	Explosion	area)	N/K	18-Feb, 23:16
	2 IKIII OOL	Recorded	1	LAPIOSIOII	Undetermined	1 1/ 12	10 1 00, 23.10
					(assessed as		
					inside the		
					disengagement		
	1-2km NW	Recorded	1	Explosion	area)	N/K	19-Feb, 00:50
Stanytsia Luhanska	4-6km SW	Heard	1	Explosion	Undetermined	N/K	18-Feb, 23:39
	1 OKIII O VV	Trait	1	DAPIOSIOII	Undetermined	1 1/ 12	10 1 00, 23.39
government-controlled linkm					(assessed as		
(government-controlled, 16km NE of Luhansk)					outside the disengagement		

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
					Undetermined (assessed as outside the disengagement		
	4-6km SW	Heard	18	Explosion	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
	Harr CW	Hand	2	Employing	Undetermined (assessed as outside the disengagement	NUZ	10 Feb 11.11 11.14
	1km SW	Heard	2	Explosion	area)	N/K	19-Feb, 11:11-11:14
	1km SSW 10-15km W	Heard Heard	3 32	Explosion Explosion	Undetermined (assessed as outside the disengagement area)	N/K N/K	19-Feb, 11:19-11:20 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
					Undetermined		
	4-6km W	Heard	1 7	Burst	TT 1	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
					Undetermined (assessed as outside the disengagement		
	3-5km S	Heard	3	Explosion	undetermined (assessed as outside the disengagement	N/K	19-Feb, 17:50-18:05
	4-6km W	Heard	20	Explosion	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
	2.51				Undetermined (assessed as outside the disengagement		
	3-5km W	Heard	8	Explosion	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)		
					Undetermined		
					(assessed as outside the		
					disengagement		
	4-6km SW	Heard	18	Explosion	area)	N/K	19-Feb, 10:18-10:20
Zolote (government-controlled,				· · · ·	Undetermined		
60km W of Luhansk)					(assessed as		
					inside the		
			_		disengagement		10 5 1 11 21 12
	1-3km SW	Heard	7	Explosion	area)	N/K	19-Feb, 11:26-11:27
7.1.077.1.4	5-8km SSW	Heard	31	Explosion	Undetermined	N/K	19-Feb, 11:30-12:20
Zolote-2/Karbonit					Undetermined (assessed as		
(government-controlled, 62km W of Luhansk)					outside the		
W of Editarisk)					disengagement		
	6-8km SSW	Heard	6	Explosion	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-	1-28km SSW	Heard	5	Explosion	Undetermined	N/K	19-Feb, 11:35-11:41
controlled, 20km N of	700 000 GE	TT 1	2	GI 4		G 11	10 5 1 11 25 11 41
Luhansk)	700-800m SE	Heard	2	Shot		Small arms	19-Feb, 11:35-11:41
W edge of Kadiivka (formerly Stakhanov, non-government-	4-6km NW	Heard	7	Explosion	Outgoing	Artillery (type N/K)	18-Feb, 18:30-18:45
controlled, 50km W of	10-15km	Hearu	/	Explosion	Outgoing	(type IV/K)	16-160, 16.30-16.43
Luhansk)	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-	3-5km SW	Heard	4	Explosion	Undetermined	N/K	19-Feb, 13:50
controlled, 58km W of	3-5km SW	Heard	6	Explosion	Undetermined	N/K	19-Feb, 12:20-12:35
Luhansk)	3-5km S	Heard	2	Explosion	Undetermined	N/K	19-Feb, 12:20-12:35
					Undetermined		
					(assessed as		
					outside the		
	2 51 W	III	2	E1	disengagement	NI/IZ	10 E-1, 10:20 10:25
	3-5km W	Heard	2	Explosion	area near Zolote) Undetermined	N/K	19-Feb, 12:20-12:35
					(assessed as		
					outside the		
					disengagement		
	1-2km SW	Heard	1	Explosion	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-					Undetermined		
government-controlled, 60km					(assessed as		
W of Luhansk)					outside the		
	5 71 W	TT 1	0	P 1 ·	disengagement	NI/IZ	10 E 1 11 24 11 22
N outskints of Lubonsk (non	5-7km W	Heard	8	Explosion	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	1081111111	11caru		LAPIOSIOII	Sildettiiiiittu	1 1/ 15	17 1 50, 13.01-13.03
(government-controlled, 69km						Artillery	
W of Luhansk).	3-6km ESE	Heard	21	Explosion	Undetermined	(type N/K)	19-Feb, 16:20-17:20
W edge of Kadiivka (formerly	8-12km W	Heard	53	Explosion	Undetermined	N/K	19-Feb, 16:30-17:25
Stakhanov, non-government-						Artillery	
	6-8km WNW	Heard	35	Explosion	Outgoing	(type N/K)	19-Feb, 16:30-17:25
controlled, 50km W of	o omi man						
controlled, 50km W of Luhansk)	0 01111 111111				Undetermined		
					(assessed as		
	12-15km						

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
						Artillery	
	5-7km NW	Heard	6	Explosion	Outgoing	(type N/K)	19-Feb, 16:30-17:25
	12-15km W	Heard	11	Explosion	Undetermined	N/K	19-Feb, 16:30-17:25
						Artillery	
	5-7km W	Heard	12	Explosion	Outgoing	(type N/K)	19-Feb, 16:30-17:25
Horlivka (non-government-	1-2km S	Heard	2	Explosion	Outgoing	N/K	19-Feb, 12:09
controlled, 39km NE of	1-2km W	Heard	2	Explosion	Undetermined	N/K	19-Feb, 12:31-12:32
Donetsk)	1-2km W	Heard	4	Explosion	Undetermined	N/K	19-Feb, 12:32-12:47
SMM camera in Avdiivka	3-5km SSE	Recorded	1	Explosion	Undetermined	N/K	20-Feb, 01:26
(government-controlled, 17km	3-5km SSE	Recorded	2	Explosion	Undetermined	N/K	20-Feb, 01:27
N of Donetsk)	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
					W to E		
	4.61 EGE	D 1.1	2	D : 41	(subsequent to	NI/IZ	20 E 1 01 22
	4-6km ESE	Recorded	3	Projectile	previous event)	N/K	20-Feb, 01:23
					Impact (subsequent to		
	4-6km ESE	Recorded	3	Explosion	previous event)	N/K	20-Feb, 01:23
SMM camera 2km E of	4-0kiii ESE	Recorded		Explosion	Undetermined	11/15	20-1'60, 01.23
Bohdanivka (government- controlled, 41km SW of Donetsk)	100-200m S	Recorded	1	Explosion	(assessed as outside the disengagement area near Petrivske)	N/K	20-Feb, 14:41
					Undetermined (assessed as outside the disengagement area near		
	500-700m S	Recorded	1	Explosion	Petrivske)	N/K	20-Feb, 15:13
SMM camera at Donetsk					Also recorded by		
Filtration Station (15km N of Donetsk)	1-3km SSW	Dagardad	2	Drojectile	SMM cameras in Avdiivka	N/K	20 Eab 19,22
Dolletsky		Recorded		Projectile	Airburst (subsequent to previous event, also recorded by SMM cameras in		20-Feb, 18:33
	1-3km SSE	Recorded	2	Explosion	Avdiivka)	N/K	20-Feb, 18:33
SMM camera in Hranitne	1-3km E	Recorded	1	Projectile	SE to NW	N/K	19-Feb, 21:02
(government-controlled, 60km	3-5km SE	Recorded	2	Explosion	Undetermined	N/K	20-Feb, 01:24
S of Donetsk)	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	1-2km N	Recorded	1	Projectile	In vertical flight	N/K	19-Feb, 23:06
checkpoint in Marinka	1-2km N	Recorded	2	Projectile	WSW to ENE	N/K	19-Feb, 23:09
(government-controlled, 23km	4-5km N	Recorded	2	Projectile	WSW to ENE	N/K	19-Feb, 23:10
SW of Donetsk)	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
					Undetermined		
					(subsequent to		
	4-6km NNE	Recorded	2	Explosion	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
					WSW to ENE		
					(subsequent to		
	4-5km NNE	Recorded	1	Projectile	previous event)	N/K	19-Feb, 23:23
					Undetermined		
					(subsequent to		
	5-6km NNE	Recorded	1	Explosion	previous event)	N/K	19-Feb, 23:23
	4-5km NNE	Recorded	1	Muzzle flash		N/K	19-Feb, 23:24
					WSW to ENE		
					(subsequent to		
	4-6km NNE	Recorded	1	Projectile	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
	2 IRIII I VE	recorded	1	Trojectiie	Undetermined	1011	15 1 60, 23.35
					(subsequent to		
	3-5km NNE	Recorded	1	Explosion	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 IRIII I (I (E	recorded	1	Trojectiie	Undetermined	1011	20 1 00, 00.02
					(subsequent to		
	2-4km NNE	Recorded	1	Explosion	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, 01:04 20-Feb, 01:06
			1	Explosion	Undetermined	N/K	20-Feb, 01:10
	2-4km NE	Recorded					
	2-4km NE	Recorded	1	Explosion	Undetermined	N/K	20-Feb, 01:11
ADA (OLC)	2-4km NE	Recorded	1	Explosion	Undetermined	N/K	20-Feb, 01:23
MM camera at Oktiabr mine	2-3km W	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 23:04
on-government-controlled,	2-3km W	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 23:06
m NW of Donetsk city ntre)	2-3km W	Recorded	3	Explosion	Undetermined	N/K	19-Feb, 23:08
nuc)	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
	4-0KIII W 5 W						

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				Illumination			
Shyrokyne (government-	5-7km N	Recorded	1	flare	In vertical flight	N/K	19-Feb, 19:51
controlled, 100km S of	5-7km N	Recorded	9	Projectile	WSW to ENE	N/K	19-Feb, 21:52
Donetsk)	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	3-5km SW	Recorded	15	Explosion	Airburst	N/K	20-Feb, 04:52
(government-controlled, 57km NE of Donetsk)	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-	3-5km NW	Heard	10	Explosion	Undetermined	N/K	19-Feb, 18:55-19:0
controlled, 39km NE of Donetsk)	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,		Heard					
39km NE of Donetsk)	50-60m W	and saw	2	Explosion	Impact	N/K	20-Feb, 09:50
Donetsk city center (non-	5-8km WNW	Heard	9	Explosion	Outgoing	N/K	20-Feb, 01:00-01:0
government-controlled)	5-8km WNW	Heard	5	Explosion	Outgoing	N/K	20-Feb, 01:15-01:3
	5-8km WNW	Heard	4	Explosion	Outgoing	N/K	20-Feb, 01:40-01:
	5-8km WNW	Heard	28	Explosion	Outgoing	N/K	20-Feb, 02:45-03:0
	5-8km WNW	Heard	3	Explosion	Outgoing	N/K	20-Feb, 03:00-03:3
	1-3km W	Heard	17	Explosion	Outgoing	N/K	20-Feb, 03:05-03:3
	5-8km WNW	Heard	2	Explosion	Undetermined	N/K	20-Feb, 04:27-04:
	5-8km WNW	Heard	20	Explosion	Undetermined	N/K	20-Feb, 05:02-05:
	5-8km WNW	Heard	6	Explosion	Undetermined	N/K	20-Feb, 05:21-05:
	7-8km SW	Heard	34	Explosion	Undetermined	N/K	20-Feb, 09:30-09:
	7-8km SW	Heard	22	Explosion	Outgoing	N/K	20-Feb, 09:45-10:
	7-8km SW	Heard	3	Explosion	Outgoing	N/K	20-Feb, 10:10-10:
	8-10km NNW	Heard	15	Explosion	Undetermined	N/K	20-Feb, 09:55-11:
	5-6km NNW	Heard	1	Explosion	Undetermined	N/K	20-Feb, 11:55
Near Kreminets (non- government-controlled, 16km SW of Donetsk)	2km NW	Heard	11	Explosion	Outgoing	Artillery (type N/K)	20-Feb, 09:55-10:
	15km W	Heard	11	Explosion	Impact	Artillery (type N/K)	20-Feb, 09:55-10:
	1km S	Heard	1	Explosion	Outgoing	Artillery (type N/K)	20-Feb, 09:55-10:
	1km SW	Heard	1	Explosion	Outgoing	Artillery (type N/K)	20-Feb, 09:55-10:

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
About 1km NW of the railway	3-4km NW	Heard	3	Shot		Small arms	20-Feb, 09:16
station in Yasynuvata (non-	8km SW	Heard	33	Explosion	Undetermined	N/K	20-Feb, 09:32-09:43
government-controlled, 16km NE of Donetsk)	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	4-6km NW	Heard	3	Explosion	Undetermined	N/K	20-Feb, 14:32
(non-government-controlled,	4-6km NW	Heard	11	Explosion	Undetermined	N/K	20-Feb, 14:33-14:37
51km S of Donetsk)	4-6km NW	Heard	5	Explosion	Undetermined	N/K	20-Feb, 14:38-14:45
ŕ	4-6km NW	Heard	2	Explosion	Undetermined	N/K	20-Feb, 14:50
About 2km SSE of Kamianka	· Ollin I v v v	110010		Zapresien		1,112	20 100, 11100
(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	1-2km SSW	Recorded	1	Illumination flare	In vertical flight	N/K	19-Feb, 20:56
NW of Luhansk)	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
				Illumination			
CMM N. I. C	2-4km S	Recorded	1	flare	In vertical flight	N/K	20-Feb, 03:03
SMM camera on N edge of	4-5km ESE	Recorded	1	Explosion	Undetermined	N/K	19-Feb, 21:14
Popasna (government- controlled, 69km W of	2-4km SSE	Recorded	2	Explosion	Undetermined	N/K	20-Feb, 17:52
Luhansk)	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	20-Feb, 17:54
<i>Danansky</i>	2-4km SSE	Recorded	3	Explosion	Undetermined	N/K	20-Feb, 17:55
	2-4km SSE 2-4km SSE	Recorded Recorded	2	Explosion Explosion	Undetermined Undetermined	N/K N/K	20-Feb, 17:57
	2-4km SSE 2-4km SSE	Recorded	1		Undetermined	N/K N/K	20-Feb, 17:59
	2-4km SSE	Recorded	1 1	Explosion Explosion	Undetermined	N/K	20-Feb, 18:00 20-Feb, 18:04
SMM camera in Zolote (government-controlled, 60km W of Luhansk)	Z-TKIII SOLE	Recolued	1	Illumination	In vertical flight (also recorded by SMM camera in Popasna, assessed as outside the disengagement	IVIX	20-100, 10.04
	1-3km ENE	Recorded	1	flare	area) In vertical flight (also recorded by SMM camera in Popasna, assessed as	N/K	19-Feb, 20:13
				Illumination	outside the disengagement		
	1-3km ENE	Recorded	1	flare	area)	N/K	19-Feb, 20:14

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
					Undetermined (assessed as outside the disengagement		
	3-5km E	Recorded	1	Explosion	In vertical flight (also recorded by the SMM camera in Popasna, assessed as outside the	N/K	20-Feb, 17:39
	4-6km E	Recorded	1	Illumination flare Illumination	disengagement area) In vertical flight (also recorded by the SMM camera in Popasna, assessed as outside the	N/K	20-Feb, 18:01
	4-6km E	Recorded	1	flare	disengagement area) In vertical flight (also recorded by the SMM camera in Popasna, assessed as outside the disengagement	N/K	20-Feb, 18:34
	4-6km E	Recorded	1	flare	area) In vertical flight (also recorded by the SMM camera in Popasna, assessed as outside the	N/K	20-Feb, 18:42
	4-6km E	Recorded	1	Illumination flare	disengagement area) SSW to NNE (assessed as outside the disengagement	N/K	20-Feb, 18:50
	2-4km E	Recorded	1	Projectile	area near Zolote) Impact (subsequent to previous event, assessed as outside the disengagement	N/K	20-Feb, 18:51
	2-4km E	Recorded	1	Explosion	area) SSW to NNE (assessed as outside the disengagement	N/K	20-Feb, 18:51
	2-4km E	Recorded	1	Projectile Illumination	area) In vertical flight (assessed as outside the disengagement	N/K	20-Feb, 18:54
	4-6km E	Recorded	1	flare	Assessed as outside the disengagement	N/K	20-Feb, 18:56
	2-4km ESE	Recorded	1	Muzzle flash	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)					Undetermined (assessed as outside the disengagement		
	2-4km S	Heard	35	Explosion	area)	N/K	19-Feb, 19:50-20:00
					Assessed as outside the disengagement		
	2-4km S	Heard	1	Burst	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 IAM 0	Treate		Expression	Undetermined (assessed as outside the disengagement	1011	17 100, 20:20 20:30
	2-4km W	Heard	7	Explosion	area)	N/K	19-Feb, 22:05-22:15
					Undetermined (assessed as outside the disengagement		
	2-4km S	Heard	14	Explosion	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
	2-4KIII S	Heald	<u> </u>	Buist	Undetermined (assessed as	Sman arms	19-160, 19.10-19.55
	4-6km SW	Heard	2	Explosion	outside the disengagement area)	N/K	20-Feb, 01:36-01:38
	3-5km S	Hand	0	Emlerien	Undetermined (assessed as outside the disengagement	NIIV	20 Ed. 04.15 04.25
	8-10km WNW	Heard Heard	9	Explosion Explosion	area) Undetermined	N/K N/K	20-Feb, 04:15-04:25
					Impact (assessed as outside the disengagement		20-Feb, 07:25-07:40
Hirske (government-controlled, 63km W of Luhansk)	2-3km S	Heard	22	Explosion	undetermined (assessed as outside the disengagement	N/K	20-Feb, 16:30-17:30
D. II	8-10km S	Heard	11	Explosion	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)					Undetermined (assessed as outside the disengagement		
Vadijuka (formerly Stakhanov	4-8km ESE	Heard	16	Explosion	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) Artillery	19-Feb, 19:22-19:45
	13-16km W	Heard	4	Explosion	Impact	(type N/K)	19-Feb, 19:22-19:45
Luhansk (non-government-	10-15km SE	Heard	12	Explosion	Undetermined	N/K	19-Feb, 17:48-17:53
controlled)	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-	10-12km SSW	Heard	12	Explosion	Undetermined	N/K	20-Feb, 10:04-10:21
government-controlled, 58km W of Luhansk)	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
	5.51		10		Outgoing (assessed as outside the disengagement		20 E L 00 22 00 41
	5-7km E	Heard	10	Explosion	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
D 41.7	7-9km SE	Heard	7	Explosion	Outgoing	N/K	20-Feb, 11:24-11:35
Donetskyi (non-government- controlled, 49km W of	2-3km W	Heard	2	Explosion	Undetermined	N/K	20-Feb, 10:50-10:52
Luhansk)	2-3km S	Heard	2	Explosion	Undetermined	N/K	20-Feb, 10:50-10:52
Holubivka (formerly Kirovsk, non-government-controlled, 51km W of Luhansk)	2-3km NE 1km SSW	Heard Heard	10	Explosion Explosion	Undetermined Outgoing	N/K N/K	20-Feb, 10:50-10:52 20-Feb, 10:38-10:40
Irmino (non-government-controlled, 54km W of Luhansk)					Outgoing (assessed as outside the disengagement		
	1km NE	Heard	15	Explosion	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