

Table of ceasefire violations as of 22 October 2019⁹

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time	
SMM camera in Berezove (government-controlled, 31km SW of Donetsk)	1-3km SSE	Recorded	1	Projectile	WSW to ENE	N/K	21-Oct, 22:34	
	1-3km SSE	Recorded	1	Explosion	Airburst (subsequent to previous event)	N/K	21-Oct, 22:34	
	1-3km SSE	Recorded	1	Explosion	Undetermined	N/K	21-Oct, 23:50	
SMM camera in Chermalyk (government-controlled, 77km S of Donetsk)	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	21-Oct, 19:39	
	2-3km S	Recorded	7	Projectile	ENE to WSW	N/K	21-Oct, 20:31	
	2-3km SE	Recorded	4	Projectile	ENE to WSW	N/K	21-Oct, 20:54	
	2-3km SSE	Recorded	1	Projectile	ENE to WSW	N/K	21-Oct, 20:56	
	2-3km SSE	Recorded	1	Projectile	ENE to WSW	N/K	21-Oct, 20:59	
	2-3km SSE	Recorded	3	Projectile	WSW to ENE	N/K	21-Oct, 21:02	
	2-4km SSE	Recorded	38	Projectile	WSW to ENE	N/K	21-Oct, 21:03	
	2-4km SSE	Recorded	2	Explosion	Undetermined	N/K	21-Oct, 21:03	
	2-4km SSE	Recorded	1	Projectile	ESE to WNW	N/K	21-Oct, 21:03	
	2-4km SSE	Recorded	2	Explosion	Undetermined	N/K	21-Oct, 21:04	
	2-3km SSE	Recorded	39	Projectile	WSW to ENE	N/K	21-Oct, 21:07	
	2-3km SSE	Recorded	1	Projectile	WSW to ENE	N/K	21-Oct, 21:07	
	2-3km SSE	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	21-Oct, 21:07	
	2-3km SSE	Recorded	1	Projectile	ENE to WSW	N/K	21-Oct, 21:08	
	2-3km SSE	Recorded	1	Projectile	WSW to ENE	N/K	21-Oct, 21:09	
	2-3km SSE	Recorded	1	Projectile	WSW to ENE	N/K	21-Oct, 21:09	
	2-3km SSE	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	21-Oct, 21:09	
	2-3km SSE	Recorded	1	Projectile	ENE to WSW	N/K	21-Oct, 21:14	
	2-3km SSE	Recorded	1	Muzzle flash		N/K	21-Oct, 21:15	
	2-3km SSE	Recorded	1	Projectile	WSW to ENE (subsequent to previous event)	N/K	21-Oct, 21:15	
	2-3km SSE	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	21-Oct, 21:15	
	2-3km SSE	Recorded	1	Projectile	ENE to WSW	N/K	21-Oct, 21:24	
	2-3km SSE	Recorded	1	Projectile	ENE to WSW	N/K	21-Oct, 21:24	
	2-3km SSE	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	21-Oct, 21:24	
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	21-Oct, 21:38	
	2-4km S	Recorded	3	Projectile	WSW to ENE	N/K	21-Oct, 22:18	
	1-2km SE	Recorded	1	Muzzle flash		N/K	21-Oct, 22:24	
	1-2km SSE	Recorded	1	Projectile	ESE to WNW (subsequent to previous event)	N/K	21-Oct, 22:24	
	SMM camera 1.5km NE of Hnutove (government-	2-4km ESE	Recorded	2	Projectile	S to N	N/K	21-Oct, 19:03
		2-4km ESE	Recorded	2	Projectile	S to N	N/K	21-Oct, 19:26
2-4km ESE		Recorded	1	Explosion	Undetermined	N/K	21-Oct, 19:26	

⁹ 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.

controlled, 90km S of Donetsk)	2-4km ENE	Recorded	1	Explosion	Undetermined (also recorded by the SMM camera in Chermalyk)	N/K	21-Oct, 19:39
	2-4km E	Recorded	1	Muzzle flash		N/K	21-Oct, 21:02
	2-4km E	Recorded	1	Projectile	S to N (subsequent to previous event)	N/K	21-Oct, 21:02
	3-5km ENE	Recorded	4	Projectile	N to S	N/K	21-Oct, 21:02
	2-4km E	Recorded	1	Muzzle flash		N/K	21-Oct, 21:08
	2-4km E	Recorded	1	Projectile	N to S (subsequent to previous event)	N/K	21-Oct, 21:08
	2-4km E	Recorded	2	Muzzle flash		N/K	21-Oct, 21:27
	2-4km E	Recorded	2	Projectile	N to S (subsequent to previous event)	N/K	21-Oct, 21:27
	2-4km E	Recorded	2	Explosion	Impact (subsequent to previous event)	N/K	21-Oct, 21:27
	2-4km E	Recorded	2	Explosion	Airburst	N/K	21-Oct, 21:32
	2-4km E	Recorded	1	Muzzle flash		N/K	21-Oct, 21:38
	2-4km E	Recorded	1	Projectile	N to S (subsequent to previous event)	N/K	21-Oct, 21:38
	2-4km E	Recorded	1	Explosion	Impact (subsequent to previous event)	N/K	21-Oct, 21:38
	2-4km E	Recorded	2	Explosion	Undetermined	N/K	21-Oct, 21:42
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	2-4km ENE	Recorded	1	Illumination flare	In vertical flight	N/K	21-Oct, 20:11
	1-3km ENE	Recorded	4	Projectile	NW to SE	N/K	21-Oct, 22:26
	1-3km ENE	Recorded	1	Projectile	SW to NE	N/K	21-Oct, 22:26
	1-3km ENE	Recorded	10	Projectile	SSW to NNE	N/K	21-Oct, 22:33
	1-3km ENE	Recorded	1	Projectile	NNW to SSE	N/K	21-Oct, 22:33
	1-3km ENE	Recorded	3	Projectile	N to S	N/K	21-Oct, 22:34
	1-3km ENE	Recorded	5	Projectile	SSW to NNE	N/K	21-Oct, 22:47
	1-3km ENE	Recorded	2	Projectile	NW to SE	N/K	21-Oct, 23:17
	1-3km ENE	Recorded	3	Projectile	NNW to SSE	N/K	21-Oct, 23:17
	1-3km ENE	Recorded	4	Projectile	SSW to NNE	N/K	21-Oct, 23:21
	1-3km ENE	Recorded	4	Projectile	SSW to NNE	N/K	21-Oct, 23:22
	1-3km ENE	Recorded	7	Projectile	NNW to SSE	N/K	21-Oct, 23:23
	1-3km ENE	Recorded	8	Projectile	N to S	N/K	21-Oct, 23:23
	1-3km ENE	Recorded	1	Projectile	SW to NE	N/K	21-Oct, 23:23
	1-3km ENE	Recorded	1	Projectile	S to N	N/K	21-Oct, 23:23
	1-3km ENE	Recorded	1	Projectile	NNW to SSE	N/K	21-Oct, 23:30
	1-3km ENE	Recorded	1	Projectile	SW to NE	N/K	21-Oct, 23:34
	1-3km ENE	Recorded	1	Projectile	WNW to ESE	N/K	21-Oct, 23:34
	1-3km ENE	Recorded	30	Projectile	NNW to SSE	N/K	22-Oct, 00:11
	1-3km ENE	Recorded	7	Projectile	NNW to SSE	N/K	22-Oct, 00:12
	1-3km ENE	Recorded	1	Projectile	NNW to SSE	N/K	22-Oct, 00:13
	1-3km E	Recorded	1	Projectile	NNW to SSE	N/K	22-Oct, 00:19
	2-4km ENE	Recorded	12	Projectile	S to N	N/K	22-Oct, 01:03
	2-4km E	Recorded	7	Projectile	N to S	N/K	22-Oct, 01:04
	1-3km ENE	Recorded	1	Projectile	NNW to SSE	N/K	22-Oct, 01:08
	2-4km E	Recorded	1	Explosion	Undetermined	N/K	22-Oct, 01:09
	1-3km ENE	Recorded	1	Projectile	N to S	N/K	22-Oct, 01:09
	1-3km ENE	Recorded	1	Projectile	SW to NE	N/K	22-Oct, 01:11
	1-3km ENE	Recorded	2	Projectile	N to S	N/K	22-Oct, 01:12
	1-3km ENE	Recorded	2	Projectile	WNW to ESE	N/K	22-Oct, 01:12
	2-4km ENE	Recorded	4	Projectile	S to N	N/K	22-Oct, 01:18
	2-4km E	Recorded	2	Projectile	NW to SE	N/K	22-Oct, 01:51
	2-4km E	Recorded	10	Projectile	NW to SE	N/K	22-Oct, 01:53
2-4km E	Recorded	5	Projectile	N to S	N/K	22-Oct, 02:03	
2-4km E	Recorded	1	Projectile	In vertical flight	N/K	22-Oct, 02:04	
2-4km E	Recorded	9	Projectile	N to S	N/K	22-Oct, 02:05	

SMM camera at entry-exit checkpoint in Pyshevyk (government-controlled, 84km S of Donetsk)	1-3km ENE	Recorded	1	Projectile	NNW to SSE	N/K	22-Oct, 02:28
	1-3km ENE	Recorded	1	Projectile	NNW to SSE	N/K	22-Oct, 02:41
	1-3km E	Recorded	1	Projectile	N to S	N/K	22-Oct, 03:40
	1-3km E	Recorded	1	Projectile	N to S	N/K	22-Oct, 03:44
	1-2km SSE	Recorded	4	Projectile	NE to SW	N/K	21-Oct, 18:42
	1-2km S	Recorded	2	Projectile	NW to SE	N/K	21-Oct, 19:03
	1-2km SSE	Recorded	2	Projectile	NW to SE	N/K	21-Oct, 19:26
	2-3km SSE	Recorded	1	Explosion	Undetermined	N/K	21-Oct, 19:26
	1-3km S	Recorded	1	Projectile	NW to SE	N/K	21-Oct, 20:15
	1-3km S	Recorded	2	Projectile	NW to SE	N/K	21-Oct, 20:43
	1-3km S	Recorded	1	Projectile	NW to SE	N/K	21-Oct, 20:44
	1-3km SSE	Recorded	3	Muzzle flash		N/K	21-Oct, 20:44
	1-3km SSE	Recorded	7	Projectile	NE to SW	N/K	21-Oct, 20:47
	2-3km SSE	Recorded	1	Explosion	Airburst	N/K	21-Oct, 20:47
	1-3km S	Recorded	3	Projectile	NE to SW	N/K	21-Oct, 20:52
	2-3km S	Recorded	2	Explosion	Undetermined	N/K	21-Oct, 20:58
	1-3km SSE	Recorded	1	Projectile	NE to SW	N/K	21-Oct, 20:59
	1-3km S	Recorded	1	Projectile	W to E	N/K	21-Oct, 20:59
	1-3km SSE	Recorded	14	Projectile	NW to SE	N/K	21-Oct, 21:01
	1-3km SSE	Recorded	100	Projectile	NW to SE (also recorded by the SMM cameras in Hnutove and Lomakyne)	N/K	21-Oct, 21:03
	2-3km SSE	Recorded	1	Explosion	Undetermined (also recorded by the SMM cameras in Hnutove and Lomakyne)	N/K	21-Oct, 21:04
	1-3km SSE	Recorded	47	Projectile	W to E (also recorded by the SMM camera in Hnutove)	N/K	21-Oct, 21:07
	2-3km SSE	Recorded	1	Explosion	Undetermined	N/K	21-Oct, 21:09
	1-3km SSE	Recorded	4	Projectile	W to E	N/K	21-Oct, 21:09
	1-3km SSE	Recorded	1	Muzzle flash	Also recorded by the SMM camera in Hnutove	N/K	21-Oct, 21:15
	1-3km SSE	Recorded	1	Projectile	W to E (subsequent to previous event; also recorded by the SMM camera in Hnutove)	N/K	21-Oct, 21:15
	2-3km SSE	Recorded	1	Explosion	Impact (subsequent to previous event; also recorded by the SMM camera in Hnutove)	N/K	21-Oct, 21:15
	1-3km SSE	Recorded	1	Muzzle flash	Also recorded by the SMM camera in Hnutove	N/K	21-Oct, 21:17
	1-3km SSE	Recorded	1	Projectile	W to E (subsequent to previous event; also recorded by the SMM camera in Hnutove)	N/K	21-Oct, 21:17
	1-3km S	Recorded	4	Projectile	W to E	N/K	21-Oct, 21:20
	1-3km S	Recorded	9	Projectile	W to E	N/K	21-Oct, 21:22
	1-3km S	Recorded	2	Projectile	E to W	N/K	21-Oct, 21:23
	2-3km SSE	Recorded	1	Explosion	Airburst	N/K	21-Oct, 21:25
	1-3km S	Recorded	1	Projectile	W to E	N/K	21-Oct, 21:27

	1-3km SSE	Recorded	1	Muzzle flash		N/K	21-Oct, 21:36
	1-3km SSE	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	21-Oct, 21:36
	1-3km SSE	Recorded	1	Muzzle flash		N/K	21-Oct, 21:38
	1-3km SSE	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	21-Oct, 21:38
	1-3km S	Recorded	2	Projectile	E to W	N/K	21-Oct, 21:41
	1-3km S	Recorded	16	Muzzle flash		N/K	21-Oct, 21:47
	1-3km S	Recorded	1	Muzzle flash		N/K	21-Oct, 21:47
	1-3km S	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	21-Oct, 21:47
	1-3km S	Recorded	3	Projectile	W to E	N/K	21-Oct, 22:23
	1-3km S	Recorded	1	Projectile	E to W	N/K	21-Oct, 22:23
	1-3km SSE	Recorded	2	Projectile	W to E	N/K	21-Oct, 22:36
	1-3km SSE	Recorded	3	Projectile	W to E	N/K	21-Oct, 22:40
	1-3km SSE	Recorded	6	Projectile	W to E	N/K	21-Oct, 22:41
	1-3km SSE	Recorded	12	Projectile	W to E	N/K	21-Oct, 22:50
	1-3km S	Recorded	1	Projectile	W to E	N/K	21-Oct, 23:33
	1-3km SSE	Recorded	1	Projectile	W to E	N/K	21-Oct, 23:57
	1-3km SSE	Recorded	1	Projectile	N to S	N/K	21-Oct, 23:57
	2-4km S	Recorded	14	Projectile	W to E	N/K	21-Oct, 23:59
	2-4km S	Recorded	20	Projectile	W to E	N/K	22-Oct, 00:00
	2-4km S	Recorded	1	Projectile	In vertical flight	N/K	22-Oct, 00:00
	2-4km S	Recorded	7	Projectile	W to E	N/K	22-Oct, 00:30
	2-4km S	Recorded	1	Muzzle flash		N/K	22-Oct, 00:50
	2-4km S	Recorded	3	Projectile	WNW to ESE	N/K	22-Oct, 00:51
	2-4km S	Recorded	3	Projectile	W to E	N/K	22-Oct, 00:52
	2-4km SSE	Recorded	1	Projectile	NW to SE	N/K	22-Oct, 00:55
	2-4km S	Recorded	1	Projectile	W to E	N/K	22-Oct, 00:55
	2-4km S	Recorded	3	Projectile	W to E	N/K	22-Oct, 00:56
	2-4km S	Recorded	3	Projectile	W to E	N/K	22-Oct, 00:57
	2-4km S	Recorded	7	Projectile	W to E	N/K	22-Oct, 01:06
	2-4km S	Recorded	11	Projectile	W to E	N/K	22-Oct, 01:07
	2-4km S	Recorded	2	Projectile	W to E	N/K	22-Oct, 01:13
	2-4km S	Recorded	1	Projectile	W to E	N/K	22-Oct, 01:14
	2-4km S	Recorded	9	Projectile	NE to SW	N/K	22-Oct, 01:29
	3-5km S	Recorded	36	Projectile	WNW to ESE	N/K	22-Oct, 01:45
	3-5km S	Recorded	3	Projectile	W to E	N/K	22-Oct, 02:19
SMM camera 1km SW of Shyrokyne (government- controlled, 100km S of Donetsk)	2-4km N	Recorded	7	Projectile	W to E	N/K	21-Oct, 18:30
	2-4km N	Recorded	4	Projectile	W to E	N/K	21-Oct, 18:32
	2-4km N	Recorded	5	Projectile	W to E	N/K	21-Oct, 18:35
	2-4km N	Recorded	3	Projectile	W to E	N/K	21-Oct, 18:36
	2-4km NNE	Recorded	21	Projectile	W to E	N/K	21-Oct, 18:37
	2-4km N	Recorded	1	Projectile	SSE to NNW	N/K	21-Oct, 19:04
	2-4km N	Recorded	7	Projectile	W to E	N/K	21-Oct, 19:19
	2-4km NE	Recorded	2	Projectile	ESE to WNW	N/K	21-Oct, 19:24
	2-4km N	Recorded	2	Projectile	W to E	N/K	21-Oct, 19:26
	2-4km N	Recorded	1	Projectile	W to E	N/K	21-Oct, 19:28
	2-4km N	Recorded	2	Projectile	W to E	N/K	21-Oct, 19:29
	2-4km N	Recorded	6	Projectile	W to E	N/K	21-Oct, 19:46
	2-4km N	Recorded	1	Projectile	W to E	N/K	21-Oct, 20:15
	2-4km NNE	Recorded	1	Explosion	Undetermined	N/K	21-Oct, 20:15
	2-4km NNE	Recorded	3	Projectile	ESE to WNW	N/K	21-Oct, 20:16
	2-4km NNE	Recorded	1	Projectile	ESE to WNW	N/K	21-Oct, 20:17
	2-4km NNE	Recorded	2	Muzzle flash		N/K	21-Oct, 20:17
	2-4km N	Recorded	7	Projectile	W to E	N/K	21-Oct, 20:34
	2-4km N	Recorded	6	Projectile	WSW to ENE	N/K	21-Oct, 20:35
	2-4km N	Recorded	3	Muzzle flash		N/K	21-Oct, 20:41

	2-4km N	Recorded	1	Explosion	Undetermined	N/K	21-Oct, 20:49
	2-4km N	Recorded	1	Projectile	WSW to ENE	N/K	21-Oct, 20:59
	2-4km N	Recorded	8	Projectile	ESE to WNW	N/K	21-Oct, 21:00
	2-4km N	Recorded	7	Projectile	W to E	N/K	21-Oct, 21:02
	2-4km N	Recorded	15	Projectile	W to E	N/K	21-Oct, 21:03
	2-4km N	Recorded	2	Explosion	Undetermined	N/K	21-Oct, 21:03
	2-4km N	Recorded	2	Explosion	Undetermined	N/K	21-Oct, 21:04
	2-4km NNE	Recorded	1	Projectile	ESE to WNW	N/K	21-Oct, 21:04
	2-4km NNE	Recorded	3	Projectile	SSE to NNW	N/K	21-Oct, 21:05
	2-4km N	Recorded	2	Explosion	Undetermined	N/K	21-Oct, 21:05
	2-4km N	Recorded	1	Explosion	Undetermined	N/K	21-Oct, 21:06
	2-4km N	Recorded	23	Projectile	W to E	N/K	21-Oct, 21:07
	2-4km N	Recorded	3	Explosion	Undetermined	N/K	21-Oct, 21:07
	2-4km N	Recorded	1	Projectile	WSW to ENE	N/K	21-Oct, 21:14
	2-4km N	Recorded	1	Projectile	WSW to ENE	N/K	21-Oct, 21:15
	2-4km N	Recorded	2	Explosion	Undetermined	N/K	21-Oct, 21:15
	6-8km N	Recorded	1	Explosion	Undetermined	N/K	21-Oct, 21:16
	2-4km N	Recorded	2	Projectile	W to E	N/K	21-Oct, 21:17
	2-4km N	Recorded	1	Projectile	In vertical flight	N/K	21-Oct, 21:17
	2-4km N	Recorded	2	Explosion	Undetermined	N/K	21-Oct, 21:17
	2-4km N	Recorded	8	Projectile	WSW to ENE	N/K	21-Oct, 21:18
	2-4km N	Recorded	4	Projectile	WSW to ENE	N/K	21-Oct, 21:20
	2-4km N	Recorded	5	Projectile	W to E	N/K	21-Oct, 21:21
	3-5km N	Recorded	1	Explosion	Undetermined	N/K	21-Oct, 21:21
	2-4km N	Recorded	1	Burst	SW to NE (approximately 15 rounds)	N/K	21-Oct, 21:21
	2-4km NNW	Recorded	7	Projectile	W to E	N/K	21-Oct, 21:22
	2-4km N	Recorded	4	Projectile	W to E	N/K	21-Oct, 21:22
	2-4km N	Recorded	1	Muzzle flash		N/K	21-Oct, 21:23
	2-4km N	Recorded	1	Projectile	ESE to WNW (subsequent to previous event)	N/K	21-Oct, 21:23
	2-4km N	Recorded	3	Projectile	ESE to WNW	N/K	21-Oct, 21:23
	2-4km N	Recorded	1	Projectile	WSW to ENE	N/K	21-Oct, 21:23
	4-6km N	Recorded	1	Explosion	Undetermined	N/K	21-Oct, 21:24
	3-4km N	Recorded	2	Projectile	WSW to ENE	N/K	21-Oct, 21:25
	3-4km N	Recorded	1	Projectile	ESE to WNW	N/K	21-Oct, 21:26
	3-4km N	Recorded	4	Projectile	WSW to ENE	N/K	21-Oct, 21:27
	3-4km N	Recorded	1	Projectile	ESE to WNW	N/K	21-Oct, 21:27
	3-4km N	Recorded	2	Projectile	WSW to ENE	N/K	21-Oct, 21:28
	2-3km NNE	Recorded	1	Projectile	SE to NW	N/K	21-Oct, 21:47
	3-4km N	Recorded	1	Projectile	WSW to ENE	N/K	21-Oct, 22:18
	3-4km NNE	Recorded	1	Projectile	ESE to WNW	N/K	21-Oct, 22:23
	3-4km NNE	Recorded	1	Projectile	ESE to WNW	N/K	21-Oct, 22:23
	3-4km N	Recorded	1	Projectile	SE to NW	N/K	21-Oct, 22:30
	3-4km N	Recorded	1	Projectile	ESE to WNW	N/K	21-Oct, 22:36
	3-5km N	Recorded	4	Projectile	W to E	N/K	21-Oct, 22:47
	3-4km N	Recorded	3	Projectile	SW to NE	N/K	21-Oct, 23:34
	3-4km N	Recorded	5	Projectile	WSW to ENE	N/K	21-Oct, 23:34
	3-5km N	Recorded	1	Illumination flare	In vertical flight	N/K	22-Oct, 01:18
	2-4km N	Recorded	2	Projectile	WSW to ENE	N/K	22-Oct, 01:21
	4-6km NNE	Recorded	1	Explosion	Undetermined	N/K	22-Oct, 18:20
	2-4km N	Recorded	2	Projectile	WNW to ESE	N/K	22-Oct, 18:20
	2-4km N	Recorded	1	Projectile	WNW to ESE	N/K	22-Oct, 18:21
	2-4km N	Recorded	2	Projectile	WNW to ESE	N/K	22-Oct, 18:24
SMM camera in Svitlodarsk (government-controlled, 57km NE	2-4km ESE	Recorded	3	Projectile	NNW to SSE	N/K	21-Oct, 21:33

of Donetsk)							
Avdiivka (government-controlled, 17km N of Donetsk)	5-6km NNE	Heard	4	Explosion	Undetermined	N/K	22-Oct, 14:32-14:42
S part of Krasnohorivka (government-controlled, 21km W of Donetsk)	3-4km S	Heard	1	Explosion	Undetermined	N/K	22-Oct, 12:58
About 1km E of Kruta Balka (non-government-controlled, 16km N of Donetsk)	3-4km S	Heard	1	Explosion	Undetermined	N/K	22-Oct, 11:09
	1-2km N	Heard	4	Shot		Small arms	22-Oct, 11:10
	1-2km N	Heard	2	Shot		Small arms	22-Oct, 11:12
	1-2km N	Heard	1	Shot		Small arms	22-Oct, 11:14
	6-8km NNW	Heard	1	Explosion	Undetermined	N/K	22-Oct, 11:41
	1km NW	Heard	10	Burst		Small arms	22-Oct, 11:44
About 2km SSE of Marinka (government-controlled, 23km SW of Donetsk)	2-3km ESE	Heard	1	Explosion	Undetermined	N/K	22-Oct, 12:05
	2-3km ESE	Heard	1	Explosion	Undetermined	N/K	22-Oct, 12:11
	2-3km ESE	Heard	1	Explosion	Undetermined	N/K	22-Oct, 12:16
	2-3km ESE	Heard	1	Explosion	Undetermined	N/K	22-Oct, 12:21
	1.5-2km E	Heard	1	Explosion	Undetermined	N/K	22-Oct, 12:25
	1.5-2km E	Heard	1	Explosion	Undetermined	N/K	22-Oct, 12:31
About 1.8km N of Petrivske (non-government-controlled, 41km S of Donetsk)	5-8km W	Heard	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	22-Oct, 11:27
	5-8km NW	Heard	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	22-Oct, 12:08
	5-8km WNW	Heard	2	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	22-Oct, 14:10
Donetsk city's Petrovskiyi district (non-government-controlled, 15km SW of Donetsk city centre)	1-2km SW	Heard	1	Explosion	Undetermined	N/K	22-Oct, 11:55
	1-2km SW	Heard	1	Explosion	Undetermined	N/K	22-Oct, 12:06
	1-2km SW	Heard	1	Explosion	Undetermined	N/K	22-Oct, 12:12
	1-2km SW	Heard	1	Explosion	Undetermined	N/K	22-Oct, 12:17
	1-2km SW	Heard	1	Explosion	Undetermined	N/K	22-Oct, 12:22
	1-2km SW	Heard	1	Explosion	Undetermined	N/K	22-Oct, 12:27
About 2.7km SW of Vesele (non-government-controlled, 9km NW of Donetsk)	1-2km W	Heard	1	Explosion	Undetermined	N/K	22-Oct, 13:40
SW part of Yasynuvata (non-government-controlled, 16km NE of Donetsk)	2km NW	Heard	2	Explosion	Undetermined	N/K	22-Oct, 14:08
About 1km NW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	800m WSW	Heard and saw	1	Explosion	Impact	Mortar (82mm)	22-Oct, 13:56
	6-8km NW	Heard	1	Explosion	Undetermined	N/K	22-Oct, 14:32
N part of Sakhanka (non-government-	2-3km WNW	Heard	2	Explosion	Undetermined	N/K	22-Oct, 13:28-13:41

controlled, 97km S of Donetsk)	1-2km W	Heard	11	Shot		Small arms	22-Oct, 13:28-13:41
	1km SE	Heard	1	Explosion	Outgoing	Mortar (120mm)	22-Oct, 13:51
	1km SE	Heard	1	Explosion	Outgoing	Mortar (120mm)	22-Oct, 14:04
	600-800m W	Heard	1	Explosion	Outgoing	Mortar (82mm)	22-Oct, 14:12
	3-4km NW	Heard	2	Explosion	Undetermined	N/K	22-Oct, 14:12
	2-3km NNW	Heard	2	Explosion	Undetermined	N/K	22-Oct, 14:14
	2-3km NE	Heard	6	Explosion	Undetermined	N/K	22-Oct, 11:30-11:52
About 2km SE of Lebedynske (government-controlled, 99km S of Donetsk)	2-3km NE	Heard	4	Burst		HMG	22-Oct, 11:30-11:52
	2-3km NE	Heard	6	Shot		Small arms	22-Oct, 11:30-11:52
	2-3km NE	Heard	23	Explosion	Undetermined	N/K	22-Oct, 11:50-12:20
	2-3km NNE	Heard	2	Explosion	Undetermined	N/K	22-Oct, 13:40
	2-3km NNE	Heard	4	Explosion	Undetermined	N/K	22-Oct, 14:05-14:06
	2-3km NNE	Heard	2	Explosion	Undetermined	N/K	22-Oct, 14:14
About 2km SSE of Lomakyne (government-controlled, 93km S of Donetsk)	2-3km E	Heard	77	Explosion	Undetermined	N/K	22-Oct, 09:55-10:10
	2-3km E	Heard	65	Burst		HMG	22-Oct, 09:55-10:10
	2-3km E	Heard	3	Explosion	Undetermined	N/K	22-Oct, 10:22-10:27
	2-3km E	Heard	7	Shot		Small arms	22-Oct, 10:22-10:27
	2-3km E	Heard	2	Explosion	Undetermined	N/K	22-Oct, 10:55-11:15
About 1km N of Novotroitske (government-controlled, 36km SW of Donetsk)	2-3km NW	Heard	2	Explosion	Undetermined	N/K	22-Oct, 11:26
About 2km SW of Pyshevyk (government-controlled, 84km S of Donetsk)	4-7km SE	Heard	37	Explosion	Undetermined	N/K	22-Oct, 09:42-10:05
	5km SE	Heard	4	Explosion	Outgoing	N/K	22-Oct, 09:42-10:05
	7km SE	Heard	4	Explosion	Impact	N/K	22-Oct, 09:42-10:05
	5-7km SE	Heard	70	Burst		HMG	22-Oct, 09:42-10:05
	5-7km SE	Heard	60	Burst		Small arms	22-Oct, 09:42-10:05
	5-7km SE	Heard	19	Explosion	Undetermined	N/K	22-Oct, 10:06-10:15
	5-7km SE	Heard	15	Burst		HMG	22-Oct, 10:06-10:15
	5-7km SE	Heard	12	Burst		Small arms	22-Oct, 10:06-10:15
	5-7km SE	Heard	2	Explosion	Undetermined	N/K	22-Oct, 10:19-10:25
	5-7km SE	Heard	6	Burst		HMG	22-Oct, 10:19-10:25
Horlivka (non-government-controlled, 39km NE of Donetsk)	3-4km WSW	Heard	2	Explosion	Undetermined	N/K	21-Oct, 23:15
	4-6km NW	Heard	2	Explosion	Undetermined	N/K	21-Oct, 23:32
	2-4km WNW	Heard	4	Explosion	Undetermined	N/K	21-Oct, 23:43
	2-4km WNW	Heard	2	Explosion	Undetermined	N/K	21-Oct, 23:45
	3-5km NW	Heard	1	Explosion	Undetermined	N/K	21-Oct, 23:47
	3-5km WNW	Heard	2	Explosion	Undetermined	N/K	22-Oct, 00:35
	3-5km NW	Heard	3	Explosion	Undetermined	N/K	22-Oct, 00:45

Svitlodarsk (government-controlled, 57km NE of Donetsk)	3-5km WNW	Heard	2	Explosion	Undetermined	N/K	22-Oct, 00:55
	2-3km WNW	Heard	6	Burst		Small arms	22-Oct, 00:55
	2-3km NNW	Heard	8	Burst		Small arms	22-Oct, 01:02
	3-5km NNW	Heard	1	Explosion	Undetermined	N/K	22-Oct, 01:02
	3-5km NNW	Heard	21	Explosion	Undetermined	N/K	22-Oct, 01:05-01:11
	2-3km NW	Heard	7	Burst		Small arms	22-Oct, 01:11-01:12
	1-2km NW	Heard	12	Shot		Small arms	22-Oct, 01:11-01:12
	3-5km NW	Heard	1	Explosion	Undetermined	N/K	22-Oct, 01:11
	2-3km NW	Heard	81	Burst		Small arms	22-Oct, 02:04-02:07
	3-5km WNW	Heard	2	Explosion	Undetermined	N/K	22-Oct, 17:07
	3-5km WNW	Heard	51	Burst		HMG	22-Oct, 17:10-17:15
	2-3km SW	Heard	42	Burst		Small arms	22-Oct, 14:30
	2-3km SW	Heard	12	Burst		HMG	22-Oct, 14:35
	2-3km SW	Heard	4	Explosion	Undetermined	N/K	22-Oct, 14:38
	2-3km SE	Heard	3	Burst		HMG	21-Oct, 18:55
	7-8km SW	Heard	5	Explosion	Undetermined	N/K	21-Oct, 19:32-19:33
	7-8km SW	Heard	1	Explosion	Undetermined	N/K	21-Oct, 19:50
	5-6km SSE	Heard	2	Explosion	Undetermined	N/K	21-Oct, 20:02
	2-3km SSE	Heard	3	Burst		HMG	21-Oct, 20:03
	6-7km SSE	Heard	2	Explosion	Undetermined	N/K	21-Oct, 20:06
	5-6km SSE	Heard	1	Explosion	Undetermined	N/K	21-Oct, 20:08
	2-3km SSE	Heard	5	Burst		HMG	21-Oct, 20:31
	4-6km S	Heard	2	Explosion	Undetermined	N/K	21-Oct, 23:13
	4-6km S	Heard	1	Explosion	Undetermined	N/K	21-Oct, 23:15
	4-6km S	Heard	1	Explosion	Undetermined	N/K	21-Oct, 23:17
	5-7km SW	Heard	2	Explosion	Undetermined	N/K	21-Oct, 23:19
	3-4km SW	Heard	5	Burst		HMG	21-Oct, 23:21
	2-3km SE	Heard	7	Burst		Small arms	21-Oct, 23:23-23:25
	3-4km S	Heard	5	Burst		HMG	21-Oct, 23:26
	4-6km SW	Heard	4	Explosion	Undetermined	N/K	21-Oct, 23:26
	2-3km SE	Heard	8	Burst		Small arms	21-Oct, 23:28
	5-7km S	Heard	1	Explosion	Undetermined	N/K	21-Oct, 23:29
	3-5km S	Heard	4	Explosion	Undetermined	N/K	21-Oct, 23:29-23:30
	2-3km SE	Heard	19	Shot		Small arms	21-Oct, 23:30-23:36
	2-3km SE	Heard	4	Burst		Small arms	21-Oct, 23:39-23:40
	2-3km SE	Heard	12	Burst		Small arms	21-Oct, 23:42-23:43
	5-7km SW	Heard	1	Explosion	Undetermined	N/K	21-Oct, 23:47
	2-3km SE	Heard	6	Burst		Small arms	21-Oct, 23:54-23:55
4-5km SSW	Heard	1	Explosion	Undetermined	N/K	22-Oct, 07:37	
3-5km SSW	Heard	1	Explosion	Undetermined	N/K	22-Oct, 08:15	
4-6km S	Heard	8	Explosion	Undetermined	N/K	22-Oct, 09:55-10:05	
4-6km SSW	Heard	3	Explosion	Undetermined	N/K	22-Oct, 15:21	
4-6km SW	Heard	49	Explosion	Undetermined	N/K	22-Oct, 16:56-17:00	
4-6km SW	Heard	4	Explosion	Undetermined	N/K	22-Oct, 17:10	

	3-5km SW	Heard	8	Burst	Undetermined	HMG	22-Oct, 17:27-17:30
	3-5km SW	Heard	16	Explosion	Undetermined	N/K	22-Oct, 17:37-17:39
SMM camera in S part of the disengagement area near Zolote (government-controlled, 60km W of Luhansk)	2-3km E	Recorded	1	Projectile	In vertical flight (assessed as outside the disengagement area)	N/K	21-Oct, 22:56
SMM camera in Zolote (government-controlled, 60km W of Luhansk)	2-4km ENE	Recorded	7	Projectile	NW to SE (assessed as outside the disengagement area)	N/K	21-Oct, 22:15
	2-4km ENE	Recorded	2	Projectile	NW to SE (assessed as outside the disengagement area)	N/K	21-Oct, 22:16
W edge of Zolote-2/Karbonit (government-controlled, 62km NW of Luhansk)	2-4km SE	Heard	7	Shot and burst	Assessed as outside the Zolote disengagement area	Small arms	22-Oct, 08:22-08:23
S edge of disengagement area near Zolote (60km W of Luhansk)	5-8km W	Heard	1	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	22-Oct, 11:44
	6-8km SSW	Heard	12	Burst	Assessed as outside the disengagement area	IFV (BMP-2) cannon (30mm)	22-Oct, 13:58-13:59
3km N of Stepove (non-government-controlled, 27km W of Luhansk)	N/K NNW	Heard	2	Explosion	Undetermined	N/K	22-Oct, 12:20
	N/K WNW	Heard	1	Explosion	Undetermined	N/K	22-Oct, 12:38
1km N of Metalist (non-government-controlled, 7km NW of Luhansk)	6-10km NNW	Heard	2	Explosion	Undetermined	N/K	22-Oct, 12:22-12:24
250m N of Stanytsia Luhanska Bridge (15km NE of Luhansk, inside the disengagement area)	8-10km WSW	Heard	4	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	22-Oct, 12:24
1km SSE of Stanytsia Luhanska Bridge (15km NE of Luhansk)	5-8km NE	Heard	2	Explosion	Undetermined (assessed as outside the disengagement area)	Artillery (type N/K)	22-Oct, 12:23
NE edge of Raivka (non-government-controlled, 16km NW of Luhansk)	5-7km NW	Heard	2	Explosion	Undetermined	N/K	22-Oct, 12:23-12:28
W edge of Berezhivske (non-government-controlled, 53km NW of Luhansk)	1-2km NNW	Heard	16	Shot		Small arms	22-Oct, 13:28-13:37
	1-2km NNW	Heard	3	Explosion	Undetermined	N/K	22-Oct, 13:28-13:37
E edge of Zolote-5/Mykhailivka (non-government-controlled, 58km NW of Luhansk)	1-2km WNW	Heard	6	Burst	Assessed as outside the disengagement area	Small arms	22-Oct, 13:58-13:59
E edge of Popasna	5-10km NW	Heard	1	Explosion	Undetermined	N/K	22-Oct, 14:22

(government-controlled, 69km W of Luhansk)							
1.7km SW of Molodizhne (non-government-controlled, 63km NW of Luhansk)	4-5km NW	Heard	1	Explosion	Undetermined	N/K	22-Oct, 14:22
W edge of Pervomaisk (non-government-controlled, 58km W of Luhansk)	5-7km SSW	Heard	4	Explosion	Undetermined	N/K	22-Oct, 16:12-16:19
	5-7km SSW	Heard	8	Burst		N/K	22-Oct, 16:12-16:19