

**Table of ceasefire violations as of 18 August 2019<sup>1</sup>**

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera in Chermalyk (government-controlled, 31km NE of Mariupol)	3-6km S	Recorded	1	Explosion	Undetermined	N/K	16-Aug, 20:17
	2-4km SSE	Recorded	6	Projectile	W to E	N/K	16-Aug, 20:38
	2-4km SSE	Recorded	4	Projectile	W to E	N/K	16-Aug, 20:39
	3-5km S	Recorded	1	Explosion	Airburst	N/K	16-Aug, 21:01
	1.5-2km SE	Recorded	1	Muzzle flash		N/K	16-Aug, 21:23
	1.5-3km SE	Recorded	1	Projectile	WNW to ESE (subsequent to previous event)	N/K	16-Aug, 21:23
	2-4km SSE	Recorded	1	Projectile	NNE to SSW	N/K	16-Aug, 22:37
	2-4km SSE	Recorded	1	Muzzle flash		N/K	16-Aug, 22:59
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	1-3km SSE	Recorded	1	Illumination flare	In vertical flight	N/K	16-Aug, 20:30
	1-3km SSE	Recorded	1	Illumination flare	In vertical flight	N/K	16-Aug, 21:07
	1-2km S	Recorded	1	Explosion	Undetermined	N/K	16-Aug, 21:50
	0.5-1km S	Recorded	1	Illumination flare	In vertical flight	N/K	16-Aug, 21:53
	0.5-1km S	Recorded	1	Explosion	Undetermined	N/K	17-Aug, 00:25
	0.3-0.5km SSW	Recorded	1	Explosion	Outgoing	RPG	17-Aug, 02:29
	0.3-0.8km S	Recorded	1	Projectile	WNW to ESE (subsequent to previous event)	RPG	17-Aug, 02:29
	0.5-1km SSE	Recorded	1	Explosion	Airburst, subsequent to previous event	RPG	17-Aug, 02:29
SMM camera 1.5km NE of Hnutove (government-controlled, 20km NE of Mariupol)	6-8km E	Recorded	1	Explosion	Undetermined	N/K	17-Aug, 00:10
	6-8km E	Recorded	1	Explosion	Undetermined	N/K	17-Aug, 04:31
SMM camera in Hranitne (government-controlled, 60km S of Donetsk)	4-6km E	Recorded	1	Illumination flare	In vertical flight	N/K	17-Aug, 01:05
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	1-2km ENE	Recorded	1	Projectile	N to S	N/K	17-Aug, 02:00
SMM camera	1-3km NNE	Recorded	2	Projectile	ESE to WNW	N/K	17-Aug, 00:46

<sup>1</sup> The table only includes ceasefire violations directly observed by the SMM and it may include those also assessed to be live-fire exercises, controlled detonations, etc. Details provided – in terms of distance, direction, weapons-type, etc. – are based on assessments provided by monitors on the ground, and are not always necessarily precise. When information is not known (indicated with an “N/K”), the SMM was unable to ascertain such information due to distance, weather conditions and/or other considerations. Ceasefire violations recorded by more than one patrol and assessed to be the same are entered only once.

at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)	1-3km NNE	Recorded	2	Projectile	ESE to WNW	N/K	17-Aug, 01:53
	1-3km NNE	Recorded	4	Projectile	ESE to WNW	N/K	17-Aug, 03:26
	1-3km NNE	Recorded	3	Projectile	ESE to WNW	N/K	17-Aug, 03:30
	1-3km NNE	Recorded	1	Projectile	ESE to WNW	N/K	17-Aug, 03:57
SMM camera at entry-exit checkpoint in Pyshevyk (government-controlled, 25km NE of Mariupol)	3-5km S	Recorded	1	Projectile	WNW to ESE	N/K	16-Aug, 20:05
	3-5km S	Recorded	1	Projectile	NW to SE	N/K	16-Aug, 20:05
	2-4km S	Recorded	1	Explosion	Undetermined	N/K	16-Aug, 20:12
	3-5km S	Recorded	2	Explosion	Undetermined	N/K	16-Aug, 20:17
	3-5km S	Recorded	1	Projectile	W to E	N/K	16-Aug, 20:19
	3-5km S	Recorded	1	Projectile	W to E	N/K	16-Aug, 20:20
	1-3km SSE	Recorded	1	Muzzle flash		N/K	16-Aug, 20:23
	3-5km S	Recorded	1	Projectile	W to E	N/K	16-Aug, 20:24
	3-5km S	Recorded	1	Projectile	W to E	N/K	16-Aug, 20:25
	3-5km S	Recorded	1	Explosion	Impact	N/K	16-Aug, 20:25
	3-5km SSE	Recorded	1	Projectile	WNW to ESE	N/K	16-Aug, 20:43
	3-5km S	Recorded	2	Projectile	W to E	N/K	16-Aug, 21:08
	3-5km S	Recorded	1	Muzzle flash		N/K	16-Aug, 21:10
	3-5km S	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	16-Aug, 21:10
	2-4km S	Recorded	2	Muzzle flash		N/K	16-Aug, 21:12
	2-4km S	Recorded	2	Projectile	E to W (subsequent to previous event)	N/K	16-Aug, 21:12
	2-4km S	Recorded	2	Muzzle flash		N/K	16-Aug, 21:37
	2-4km S	Recorded	2	Projectile	E to W (subsequent to previous event)	N/K	16-Aug, 21:37
	3-5km SSE	Recorded	1	Projectile	WNW to ESE	N/K	16-Aug, 21:38
	3-5km S	Recorded	1	Projectile	In vertical flight	N/K	16-Aug, 22:09
	3-5km S	Recorded	1	Projectile	WNW to ESE	N/K	16-Aug, 22:09
	3-5km S	Recorded	1	Muzzle flash		N/K	16-Aug, 22:09
	3-5km SSE	Recorded	1	Projectile	W to E	N/K	16-Aug, 22:22
	3-5km SSE	Recorded	1	Projectile	WNW to ESE	N/K	16-Aug, 22:33
	3-5km SSE	Recorded	2	Projectile	WSW to ENE	N/K	16-Aug, 22:40
	3-5km SSE	Recorded	1	Projectile	W to E	N/K	16-Aug, 22:46
	4-6km SSE	Recorded	2	Projectile	NW to SE	N/K	16-Aug, 22:47
	4-6km S	Recorded	1	Projectile	W to E	N/K	16-Aug, 23:00
	4-6km SSE	Recorded	6	Projectile	W to E	N/K	16-Aug, 23:06
	3-5km SSE	Recorded	1	Projectile	E to W	N/K	16-Aug, 23:08
	3-5km SSE	Recorded	1	Projectile	NNE to SSW	N/K	16-Aug, 23:09
	3-5km S	Recorded	1	Projectile	NNW to SSE	N/K	16-Aug, 23:15
	3-5km S	Recorded	1	Projectile	W to E	N/K	16-Aug, 23:16
	3-5km SSE	Recorded	5	Projectile	W to E	N/K	16-Aug, 23:23
	3-5km SSE	Recorded	1	Projectile	NE to SW	N/K	16-Aug, 23:25
	4-6km S	Recorded	1	Projectile	W to E	N/K	16-Aug, 23:26
	4-6km SSE	Recorded	1	Projectile	W to E	N/K	16-Aug, 23:40
	4-6km SSE	Recorded	1	Projectile	W to E	N/K	16-Aug, 23:42
	4-6km SSE	Recorded	7	Projectile	W to E	N/K	16-Aug, 23:43
	4-6km S	Recorded	4	Projectile	W to E	N/K	16-Aug, 23:44
	3-5km S	Recorded	1	Projectile	NNW to SSE	N/K	16-Aug, 23:48
	4-6km SSE	Recorded	1	Projectile	W to E	N/K	16-Aug, 23:52
	4-6km S	Recorded	1	Projectile	W to E	N/K	17-Aug, 00:01
	4-6km SSE	Recorded	2	Projectile	W to E	N/K	17-Aug, 00:34
	4-6km SSE	Recorded	1	Muzzle flash		N/K	17-Aug, 00:34
	4-6km SSE	Recorded	3	Projectile	W to E	N/K	17-Aug, 00:36
4-6km SSE	Recorded	7	Projectile	WNW to ESE	N/K	17-Aug, 00:52	
4-6km SSE	Recorded	16	Projectile	WSW to ENE	N/K	17-Aug, 00:53	
4-6km SSE	Recorded	2	Projectile	WNW to ESE	N/K	17-Aug, 01:06	

	4-6km SSE	Recorded	6	Projectile	WNW to ESE	N/K	17-Aug, 01:33
	4-6km SSE	Recorded	2	Projectile	W to E	N/K	17-Aug, 02:38
	4-6km SSE	Recorded	5	Projectile	W to E	N/K	17-Aug, 02:47
	4-6km S	Recorded	1	Projectile	NE to SW	N/K	17-Aug, 03:30
	4-6km S	Recorded	1	Projectile	W to E	N/K	17-Aug, 03:30
About 2km N of Petrivske (non-government-controlled, 41km S of Donetsk)	3-5km S	Heard	9	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	17-Aug, 11:32-11:38
About 3km NNE of Zaichenko (non-government-controlled, 26km NE of Mariupol)	N/K WNW	Heard	2	Explosion	Undetermined	N/K	17-Aug, 11:28-11:35
	N/K WNW	Heard	1	Explosion	Undetermined	N/K	17-Aug, 12:15
Svitlodarsk (government-controlled, 57km NE of Donetsk)	3-5km S	Heard	24	Explosion	Undetermined	N/K	16-Aug, 18:01-18:14
	3-5km S	Heard	14	Explosion	Undetermined	N/K	16-Aug, 18:15-18:20
	3-5km S	Heard	4	Explosion	Undetermined	N/K	16-Aug, 18:25-18:29
	3-5km SSE	Heard	4	Explosion	Undetermined	N/K	16-Aug, 18:50
	1-2km SSE	Heard	14	Burst		Small arms	16-Aug, 19:09-19:12
	1-2km SSE	Heard	7	Shot		Small arms	16-Aug, 19:10-19:11
	3-5km S	Heard	1	Explosion	Undetermined	N/K	16-Aug, 23:13
	2-3km SSW	Heard	3	Burst		Small arms	16-Aug, 23:14
	3-5km S	Heard	1	Explosion	Undetermined	N/K	16-Aug, 23:18
3-5km SSW	Heard	3	Explosion	Undetermined	N/K	16-Aug, 23:22	
Horlivka (non-government-controlled, 39km NE of Donetsk)	8-12km NNW	Heard		Burst	Uncountable and overlapping	HMG	16-Aug, 19:00-19:07
	8-12km NNW	Heard	60	Explosion	Undetermined	N/K	16-Aug, 19:00-19:07
	8-12km NNW	Heard	16	Burst		HMG	16-Aug, 19:08-19:13
	8-12km NNW	Heard	8	Explosion	Undetermined	N/K	16-Aug, 19:08-19:13
	8-12km NNW	Heard	26	Burst		HMG	16-Aug, 19:58-20:00
	8-12km NNW	Heard	1	Explosion	Undetermined	N/K	16-Aug, 20:06
	8-12km NNW	Heard	1	Explosion	Undetermined	N/K	16-Aug, 20:18
	8-10km NNW	Heard	2	Explosion	Undetermined	N/K	16-Aug, 21:12
SMM camera in Zolote (government-controlled, 60km W of Luhansk)	2-3km SSE	Recorded	1	Projectile	WNW to ESE (assessed as inside the disengagement area)	N/K	16-Aug, 22:08
Holubivske (non-government-controlled, 51km W of Luhansk)	4-6km WSW	Heard	15	Burst		HMG	17-Aug, 10:55-10:58

Nyzhnoteple (government-controlled, 26km N of Luhansk)	8-10km NW	Heard	4	Explosion	Undetermined	N/K	17-Aug, 11:36-11:50
SMM camera in Chermalyk (government-controlled, 31km NE of Mariupol)	3-5km S	Recorded	1	Explosion	Airburst	N/K	17-Aug, 20:46
	3-5km S	Recorded	1	Explosion	Airburst	N/K	17-Aug, 21:20
	2-4km SSE	Recorded	4	Projectile	W to E	N/K	17-Aug, 21:22
	1-3km SSE	Recorded	3	Projectile	ENE to WSW	N/K	17-Aug, 22:56
	1-3km SSE	Recorded	1	Other	Signal flare in vertical flight	N/K	18-Aug, 03:40
SMM camera 1.5km NE of Hnutove (government-controlled, 20km NE of Mariupol)	2-4km E	Recorded	3	Projectile	N to S	N/K	17-Aug, 20:49
	2-4km E	Recorded	1	Projectile	W to E	N/K	17-Aug, 21:02
	2-4km ENE	Recorded	1	Projectile	NW to SE	N/K	17-Aug, 21:02
	2-4km E	Recorded	1	Explosion	Undetermined	N/K	17-Aug, 23:20
	2-4km E	Recorded	1	Explosion	Undetermined	N/K	17-Aug, 23:46
	4-6km E	Recorded	1	Projectile	W to E	N/K	17-Aug, 23:46
	2-4km E	Recorded	2	Projectile	WSW to ENE	N/K	18-Aug, 00:31
	2-4km E	Recorded	1	Projectile	NW to SE	N/K	18-Aug, 00:49
2-4km E	Recorded	1	Projectile	SW to NE	N/K	18-Aug, 00:49	
SMM camera E of Lomakyne (government-controlled, 15km NE of Mariupol)	3-4km NE	Recorded	5	Projectile	In vertical flight	N/K	18-Aug, 02:35
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	1.5-3km ENE	Recorded	1	Projectile	N to S	N/K	18-Aug, 01:32
	2-4km E	Recorded	1	Illumination flare	In vertical flight	N/K	18-Aug, 02:52
SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)	2-4km NNE	Recorded	1	Illumination flare	In vertical flight	N/K	18-Aug, 00:30
SMM camera at entry-exit checkpoint in Pyshevyk (government-controlled, 25km NE of Mariupol)	4-6km S	Recorded	1	Projectile	NE to SW	N/K	17-Aug, 20:40
	4-6km S	Recorded	1	Explosion	Airburst, subsequent to previous event.	N/K	17-Aug, 20:40
	4-6km S	Recorded	1	Explosion	Undetermined	N/K	17-Aug, 20:46
	4-6km S	Recorded	1	Illumination flare	In vertical flight	N/K	17-Aug, 20:46
	4-6km S	Recorded	1	Projectile	E to W	N/K	17-Aug, 20:57
	4-6km S	Recorded	1	Explosion	Undetermined	N/K	17-Aug, 20:57
	4-6km S	Recorded	1	Projectile	W to E	N/K	17-Aug, 21:01
	2-4km SSE	Recorded	1	Projectile	NW to SE	N/K	17-Aug, 21:02
	4-6km S	Recorded	1	Projectile	W to E	N/K	17-Aug, 21:02
	4-6km S	Recorded	1	Projectile	W to E	N/K	17-Aug, 21:03
	4-6km S	Recorded	1	Projectile	W to E	N/K	17-Aug, 21:19
	4-6km S	Recorded	6	Projectile	W to E	N/K	17-Aug, 21:20
	4-6km S	Recorded	1	Explosion	Undetermined	N/K	17-Aug, 21:20
	4-6km S	Recorded	1	Projectile	E to W	N/K	17-Aug, 21:25
	2-4km SSE	Recorded	3	Projectile	E to W	N/K	17-Aug, 21:27
	4-6km S	Recorded	1	Projectile	E to W	N/K	17-Aug, 21:27
	4-6km S	Recorded	1	Muzzle flash		N/K	17-Aug, 21:27
	2-4km SSE	Recorded	2	Projectile	E to W	N/K	17-Aug, 21:30
4-6km S	Recorded	1	Projectile	E to W	N/K	17-Aug, 21:46	

	4-6km S	Recorded	3	Projectile	E to W	N/K	17-Aug, 21:47
	4-6km S	Recorded	3	Projectile	W to E	N/K	17-Aug, 21:47
	4-6km S	Recorded	1	Projectile	W to E	N/K	17-Aug, 21:57
	4-6km S	Recorded	3	Muzzle flash		N/K	17-Aug, 21:57
	4-6km S	Recorded	4	Projectile	W to E	N/K	17-Aug, 22:05
	4-6km S	Recorded	1	Projectile	W to E	N/K	17-Aug, 22:10
	4-6km S	Recorded	3	Projectile	E to W	N/K	17-Aug, 22:13
	4-6km S	Recorded	1	Projectile	E to W	N/K	17-Aug, 22:14
	4-6km S	Recorded	1	Explosion	Undetermined	N/K	17-Aug, 22:49
	4-6km S	Recorded	2	Projectile	E to W	N/K	17-Aug, 22:55
	4-6km S	Recorded	1	Projectile	E to W	N/K	17-Aug, 22:56
	4-6km S	Recorded	1	Projectile	E to W	N/K	17-Aug, 22:59
	4-6km S	Recorded	2	Projectile	E to W	N/K	17-Aug, 23:02
	4-6km S	Recorded	2	Projectile	E to W	N/K	17-Aug, 23:04
	4-6km S	Recorded	1	Projectile	In vertical flight	N/K	17-Aug, 23:04
	4-6km SSE	Recorded	1	Projectile	W to E	N/K	17-Aug, 23:05
	4-6km S	Recorded	4	Projectile	W to E	N/K	17-Aug, 23:17
	4-6km S	Recorded	3	Projectile	W to E	N/K	17-Aug, 23:18
	4-6km S	Recorded	1	Projectile	W to E	N/K	17-Aug, 23:19
	4-6km S	Recorded	2	Projectile	W to E	N/K	17-Aug, 23:20
	2-4km SSE	Recorded	1	Explosion	Airburst	N/K	17-Aug, 23:27
	4-6km S	Recorded	1	Projectile	N to S	N/K	17-Aug, 23:32
	4-6km S	Recorded	1	Projectile	NW to SE	N/K	17-Aug, 23:32
	4-6km SSE	Recorded	1	Explosion	Undetermined	N/K	17-Aug, 23:33
	4-6km S	Recorded	1	Projectile	E to W	N/K	17-Aug, 23:39
	2-4km SSE	Recorded	3	Projectile	E to W	N/K	17-Aug, 23:44
	2-4km SSE	Recorded	3	Projectile	E to W	N/K	17-Aug, 23:45
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	17-Aug, 23:45
	4-6km S	Recorded	2	Projectile	E to W	N/K	17-Aug, 23:50
	4-6km S	Recorded	2	Projectile	W to E	N/K	17-Aug, 23:50
	4-6km S	Recorded	2	Projectile	NE to SW	N/K	17-Aug, 23:51
	2-4km SSE	Recorded	3	Projectile	NE to SW	N/K	18-Aug, 00:09
	2-4km SSE	Recorded	2	Projectile	NE to SW	N/K	18-Aug, 00:10
	2-4km SSE	Recorded	2	Projectile	NE to SW	N/K	18-Aug, 00:11
	4-6km S	Recorded	10	Projectile	W to E	N/K	18-Aug, 00:13
	2-4km SSE	Recorded	11	Projectile	E to W	N/K	18-Aug, 00:23
	2-4km SSE	Recorded	2	Projectile	E to W	N/K	18-Aug, 00:24
	2-4km SSE	Recorded	1	Projectile	E to W	N/K	18-Aug, 00:28
	2-4km SSE	Recorded	6	Projectile	E to W	N/K	18-Aug, 00:30
	2-4km S	Recorded	10	Projectile	E to W	N/K	18-Aug, 00:36
	4-6km SSE	Recorded	7	Projectile	NE to SW	N/K	18-Aug, 00:36
	2-4km SSE	Recorded	7	Projectile	E to W	N/K	18-Aug, 00:39
	2-4km SSE	Recorded	1	Explosion	Airburst	N/K	18-Aug, 00:43
	4-6km S	Recorded	3	Projectile	E to W	N/K	18-Aug, 00:48
	2-4km S	Recorded	1	Projectile	W to E	N/K	18-Aug, 00:48
	2-4km SSE	Recorded	7	Projectile	E to W	N/K	18-Aug, 00:49
	4-6km S	Recorded	5	Projectile	WNW to ESE	N/K	18-Aug, 00:50
	2-4km SSE	Recorded	5	Projectile	E to W	N/K	18-Aug, 00:54
	2-4km SSE	Recorded	4	Projectile	E to W	N/K	18-Aug, 00:56
	2-4km SSE	Recorded	1	Projectile	W to E	N/K	18-Aug, 00:57
	2-4km SSE	Recorded	2	Projectile	E to W	N/K	18-Aug, 00:58
	2-4km S	Recorded	6	Projectile	E to W	N/K	18-Aug, 00:58
	4-6km S	Recorded	2	Projectile	W to E	N/K	18-Aug, 00:59
	4-6km S	Recorded	4	Projectile	W to E	N/K	18-Aug, 01:06
	4-6km S	Recorded	2	Projectile	W to E	N/K	18-Aug, 01:13
	4-6km S	Recorded	2	Projectile	W to E	N/K	18-Aug, 01:51
	4-6km S	Recorded	1	Projectile	W to E	N/K	18-Aug, 01:52
	4-6km S	Recorded	2	Projectile	NNW to SSE	N/K	18-Aug, 01:52
	4-6km S	Recorded	2	Projectile	NW to SE	N/K	18-Aug, 03:52
	5-7km SSE	Recorded	10	Projectile	E to W	N/K	18-Aug, 04:20
About 1km NW of the	1km N	Heard	7	Shot	Assessed as part of a live	Small arms	18-Aug, 09:58-10:04

railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)					fire training exercise		
	4-5km SW	Heard	1	Explosion	Undetermined	N/K	18-Aug, 12:00
	3-4km SW	Heard and saw	1	Explosion	Impact	N/K	18-Aug, 13:11
About 1km ESE of Kruta Balka (non-government-controlled, 16km N of Donetsk)	1km N	Heard	11	Shot		Small arms	18-Aug, 10:33-10:40
About 2km N of Petrivske (non-government-controlled, 41km S of Donetsk)	5km SW	Heard	1	Explosion	Undetermined (assessed as inside the disengagement area)	N/K	18-Aug, 12:28
	1km SE	Heard	1	Shot	Assessed as outside the disengagement area.	Small arms	18-Aug, 12:34
2km NE of Chernenko (government-controlled, 21km NE of Mariupol)	N/K SSE	Heard	2	Explosion	Undetermined	N/K	18-Aug, 11:20
3km NW of Shyrokyne (government-controlled, 20km E of Mariupol)	N/K ENE	Heard	1	Explosion	Undetermined	N/K	18-Aug, 13:28
Svitlodarsk (government-controlled, 57km NE of Donetsk)	1-2km SSW	Heard	5	Shot		Small arms	17-Aug, 21:04
	1-2km SSW	Heard	8	Shot		Small arms	17-Aug, 22:18
	2-3km SSW	Heard	30	Burst		Small arms	18-Aug, 07:38-07:45
	2-3km SSW	Heard	41	Burst		HMG	18-Aug, 07:38-07:45
	2-4km SSW	Heard	18	Explosion	Undetermined	N/K	18-Aug, 07:38-07:45
	3-6km SSW	Heard	8	Explosion	Undetermined	N/K	18-Aug, 14:03-14:11
Horlivka (non-government-controlled, 39km NE of Donetsk)	5-7km W	Heard	1	Explosion	Undetermined	N/K	17-Aug, 22:05
	3-5km NW	Heard	4	Burst		HMG	17-Aug, 22:19
	5-7km W	Heard	1	Explosion	Undetermined	N/K	17-Aug, 22:21
	5-7km SW	Heard	5	Explosion	Undetermined	N/K	18-Aug, 00:15-00:16
	5-7km SW	Heard	4	Explosion	Undetermined	N/K	18-Aug, 00:30-00:31
E edge of Popasna (government-controlled, 69km W of Luhansk)	1-1.5km ENE	Heard	12	Shot		Small arms	18-Aug, 09:25-09:42
SMM camera in Chermalyk (government-controlled, 31km NE of	3-6km S	Recorded	1	Explosion	Undetermined	N/K	16-Aug, 20:17
	2-4km SSE	Recorded	6	Projectile	W to E	N/K	16-Aug, 20:38
	2-4km SSE	Recorded	4	Projectile	W to E	N/K	16-Aug, 20:39
	3-5km S	Recorded	1	Explosion	Airburst	N/K	16-Aug, 21:01
	1.5-2km SE	Recorded	1	Muzzle flash		N/K	16-Aug, 21:23

Mariupol)	1.5-3km SE	Recorded	1	Projectile	WNW to ESE (subsequent to previous event)	N/K	16-Aug, 21:23
	2-4km SSE	Recorded	1	Projectile	NNE to SSW	N/K	16-Aug, 22:37
	2-4km SSE	Recorded	1	Muzzle flash		N/K	16-Aug, 22:59
	2-4km SSE	Recorded	1	Projectile	NNE to SSW (subsequent to previous event)	N/K	16-Aug, 22:59
SMM camera at Donetsk Filtration Station (15km N of Donetsk)	1-3km SSE	Recorded	1	Illumination flare	In vertical flight	N/K	16-Aug, 20:30
	1-3km SSE	Recorded	1	Illumination flare	In vertical flight	N/K	16-Aug, 21:07
	1-2km S	Recorded	1	Explosion	Undetermined	N/K	16-Aug, 21:50
	0.5-1km S	Recorded	1	Illumination flare	In vertical flight	N/K	16-Aug, 21:53
	0.5-1km S	Recorded	1	Explosion	Undetermined	N/K	17-Aug, 00:25
	0.3-0.5km SSW	Recorded	1	Explosion	Outgoing	RPG	17-Aug, 02:29
	0.3-0.8km S	Recorded	1	Projectile	WNW to ESE (subsequent to previous event)	RPG	17-Aug, 02:29
SMM camera 1.5km NE of Hnutove (government-controlled, 20km NE of Mariupol)	6-8km E	Recorded	1	Explosion	Undetermined	N/K	17-Aug, 00:10
	6-8km E	Recorded	1	Explosion	Undetermined	N/K	17-Aug, 04:31
SMM camera in Hranitne (government-controlled, 60km S of Donetsk)	4-6km E	Recorded	1	Illumination flare	In vertical flight	N/K	17-Aug, 01:05
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)	1-2km ENE	Recorded	1	Projectile	N to S	N/K	17-Aug, 02:00
SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)	1-3km NNE	Recorded	2	Projectile	ESE to WNW	N/K	17-Aug, 00:46
	1-3km NNE	Recorded	2	Projectile	ESE to WNW	N/K	17-Aug, 01:53
	1-3km NNE	Recorded	4	Projectile	ESE to WNW	N/K	17-Aug, 03:26
	1-3km NNE	Recorded	3	Projectile	ESE to WNW	N/K	17-Aug, 03:30
	1-3km NNE	Recorded	1	Projectile	ESE to WNW	N/K	17-Aug, 03:57
SMM camera at entry-exit checkpoint in Pyshevyk (government-controlled, 25km NE of Mariupol)	3-5km S	Recorded	1	Projectile	WNW to ESE	N/K	16-Aug, 20:05
	3-5km S	Recorded	1	Projectile	NW to SE	N/K	16-Aug, 20:05
	2-4km S	Recorded	1	Explosion	Undetermined	N/K	16-Aug, 20:12
	3-5km S	Recorded	2	Explosion	Undetermined	N/K	16-Aug, 20:17
	3-5km S	Recorded	1	Projectile	W to E	N/K	16-Aug, 20:19
	3-5km S	Recorded	1	Projectile	W to E	N/K	16-Aug, 20:20
	1-3km SSE	Recorded	1	Muzzle flash		N/K	16-Aug, 20:23
	3-5km S	Recorded	1	Projectile	W to E	N/K	16-Aug, 20:24
	3-5km S	Recorded	1	Projectile	W to E	N/K	16-Aug, 20:25
	3-5km S	Recorded	1	Explosion	Impact	N/K	16-Aug, 20:25
3-5km SSE	Recorded	1	Projectile	WNW to ESE	N/K	16-Aug, 20:43	

	3-5km S	Recorded	2	Projectile	W to E	N/K	16-Aug, 21:08
	3-5km S	Recorded	1	Muzzle flash		N/K	16-Aug, 21:10
	3-5km S	Recorded	1	Projectile	W to E (subsequent to previous event)	N/K	16-Aug, 21:10
	2-4km S	Recorded	2	Muzzle flash		N/K	16-Aug, 21:12
	2-4km S	Recorded	2	Projectile	E to W (subsequent to previous event)	N/K	16-Aug, 21:12
	2-4km S	Recorded	2	Muzzle flash		N/K	16-Aug, 21:37
	2-4km S	Recorded	2	Projectile	E to W (subsequent to previous event)	N/K	16-Aug, 21:37
	3-5km SSE	Recorded	1	Projectile	WNW to ESE	N/K	16-Aug, 21:38
	3-5km S	Recorded	1	Projectile	In vertical flight	N/K	16-Aug, 22:09
	3-5km S	Recorded	1	Projectile	WNW to ESE	N/K	16-Aug, 22:09
	3-5km S	Recorded	1	Muzzle flash		N/K	16-Aug, 22:09
	3-5km SSE	Recorded	1	Projectile	W to E	N/K	16-Aug, 22:22
	3-5km SSE	Recorded	1	Projectile	WNW to ESE	N/K	16-Aug, 22:33
	3-5km SSE	Recorded	2	Projectile	WSW to ENE	N/K	16-Aug, 22:40
	3-5km SSE	Recorded	1	Projectile	W to E	N/K	16-Aug, 22:46
	4-6km SSE	Recorded	2	Projectile	NW to SE	N/K	16-Aug, 22:47
	4-6km S	Recorded	1	Projectile	W to E	N/K	16-Aug, 23:00
	4-6km SSE	Recorded	6	Projectile	W to E	N/K	16-Aug, 23:06
	3-5km SSE	Recorded	1	Projectile	E to W	N/K	16-Aug, 23:08
	3-5km SSE	Recorded	1	Projectile	NNE to SSW	N/K	16-Aug, 23:09
	3-5km S	Recorded	1	Projectile	NNW to SSE	N/K	16-Aug, 23:15
	3-5km S	Recorded	1	Projectile	W to E	N/K	16-Aug, 23:16
	3-5km SSE	Recorded	5	Projectile	W to E	N/K	16-Aug, 23:23
	3-5km SSE	Recorded	1	Projectile	NE to SW	N/K	16-Aug, 23:25
	4-6km S	Recorded	1	Projectile	W to E	N/K	16-Aug, 23:26
	4-6km SSE	Recorded	1	Projectile	W to E	N/K	16-Aug, 23:40
	4-6km SSE	Recorded	1	Projectile	W to E	N/K	16-Aug, 23:42
	4-6km SSE	Recorded	7	Projectile	W to E	N/K	16-Aug, 23:43
	4-6km S	Recorded	4	Projectile	W to E	N/K	16-Aug, 23:44
	3-5km S	Recorded	1	Projectile	NNW to SSE	N/K	16-Aug, 23:48
	4-6km SSE	Recorded	1	Projectile	W to E	N/K	16-Aug, 23:52
	4-6km S	Recorded	1	Projectile	W to E	N/K	17-Aug, 00:01
	4-6km SSE	Recorded	2	Projectile	W to E	N/K	17-Aug, 00:34
	4-6km SSE	Recorded	1	Muzzle flash		N/K	17-Aug, 00:34
	4-6km SSE	Recorded	3	Projectile	W to E	N/K	17-Aug, 00:36
	4-6km SSE	Recorded	7	Projectile	WNW to ESE	N/K	17-Aug, 00:52
	4-6km SSE	Recorded	16	Projectile	WSW to ENE	N/K	17-Aug, 00:53
	4-6km SSE	Recorded	2	Projectile	WNW to ESE	N/K	17-Aug, 01:06
	4-6km SSE	Recorded	6	Projectile	WNW to ESE	N/K	17-Aug, 01:33
	4-6km SSE	Recorded	2	Projectile	W to E	N/K	17-Aug, 02:38
	4-6km SSE	Recorded	5	Projectile	W to E	N/K	17-Aug, 02:47
	4-6km S	Recorded	1	Projectile	NE to SW	N/K	17-Aug, 03:30
	4-6km S	Recorded	1	Projectile	W to E	N/K	17-Aug, 03:30
About 2km N of Petrivske (non-government-controlled, 41km S of Donetsk)	3-5km S	Heard	9	Explosion	Undetermined (assessed as outside the disengagement area)	N/K	17-Aug, 11:32-11:38
About 3km NNE of Zaichenko (non-government-controlled,	N/K WNW	Heard	2	Explosion	Undetermined	N/K	17-Aug, 11:28-11:35
	N/K WNW	Heard	1	Explosion	Undetermined	N/K	17-Aug, 12:15



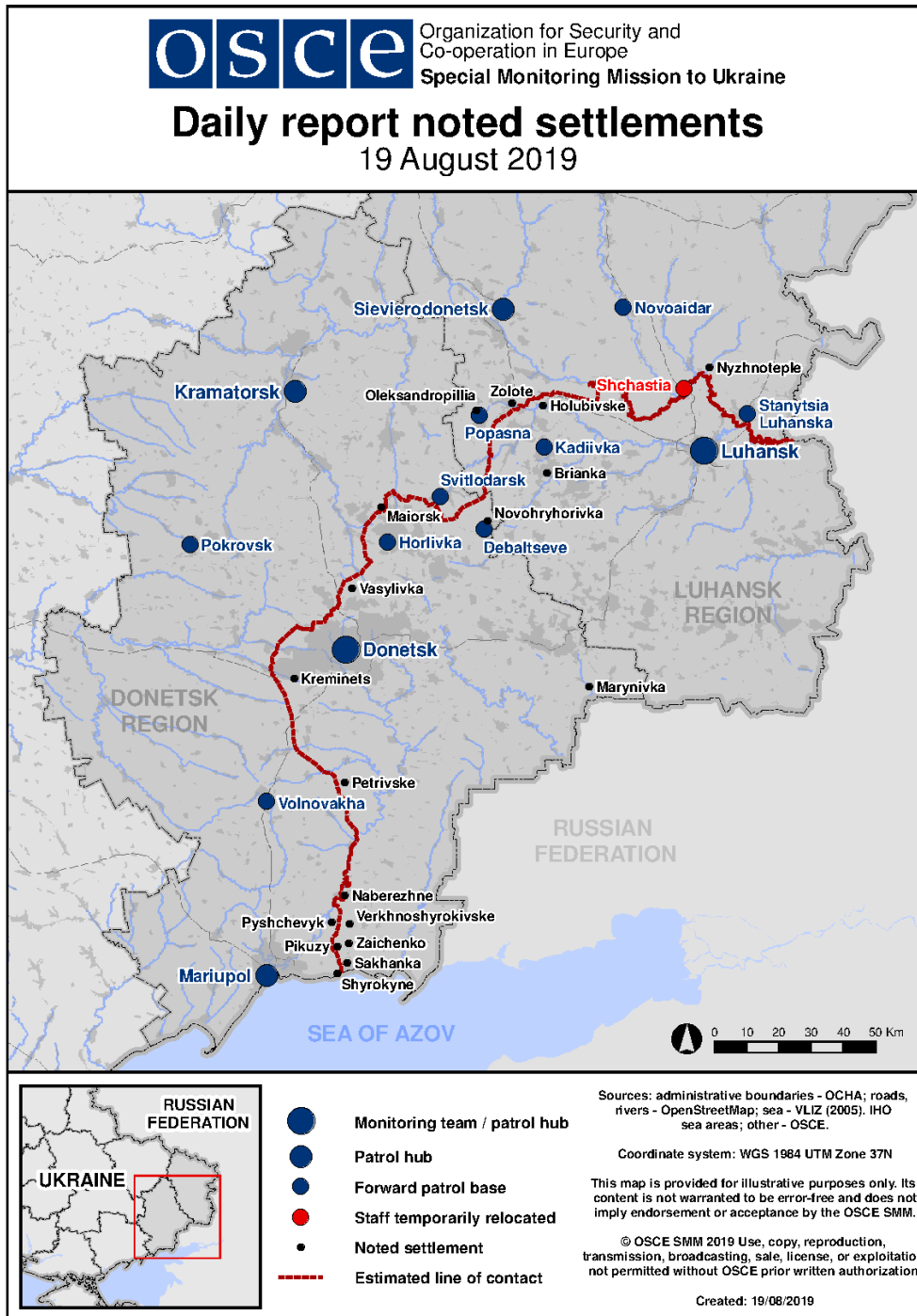
26km NE of Mariupol)							
Svitlodarsk (government-controlled, 57km NE of Donetsk)	3-5km S	Heard	24	Explosion	Undetermined	N/K	16-Aug, 18:01-18:14
	3-5km S	Heard	14	Explosion	Undetermined	N/K	16-Aug, 18:15-18:20
	3-5km S	Heard	4	Explosion	Undetermined	N/K	16-Aug, 18:25-18:29
	3-5km SSE	Heard	4	Explosion	Undetermined	N/K	16-Aug, 18:50
	1-2km SSE	Heard	14	Burst		Small arms	16-Aug, 19:09-19:12
	1-2km SSE	Heard	7	Shot		Small arms	16-Aug, 19:10-19:11
	3-5km S	Heard	1	Explosion	Undetermined	N/K	16-Aug, 23:13
	2-3km SSW	Heard	3	Burst		Small arms	16-Aug, 23:14
	3-5km S	Heard	1	Explosion	Undetermined	N/K	16-Aug, 23:18
	3-5km SSW	Heard	3	Explosion	Undetermined	N/K	16-Aug, 23:22
Horlivka (non-government-controlled, 39km NE of Donetsk)	8-12km NNW	Heard		Burst	Uncountable and overlapping	HMG	16-Aug, 19:00-19:07
	8-12km NNW	Heard	60	Explosion	Undetermined	N/K	16-Aug, 19:00-19:07
	8-12km NNW	Heard	16	Burst		HMG	16-Aug, 19:08-19:13
	8-12km NNW	Heard	8	Explosion	Undetermined	N/K	16-Aug, 19:08-19:13
	8-12km NNW	Heard	26	Burst		HMG	16-Aug, 19:58-20:00
	8-12km NNW	Heard	1	Explosion	Undetermined	N/K	16-Aug, 20:06
	8-12km NNW	Heard	1	Explosion	Undetermined	N/K	16-Aug, 20:18
	8-10km NNW	Heard	2	Explosion	Undetermined	N/K	16-Aug, 21:12
SMM camera in Zolote (government-controlled, 60km W of Luhansk)	2-3km SSE	Recorded	1	Projectile	WNW to ESE (assessed as inside the disengagement area)	N/K	16-Aug, 22:08
Holubivske (non-government-controlled, 51km W of Luhansk)	4-6km WSW	Heard	15	Burst		HMG	17-Aug, 10:55-10:58
Nyzhnoteple (government-controlled, 26km N of Luhansk)	8-10km NW	Heard	4	Explosion	Undetermined	N/K	17-Aug, 11:36-11:50
SMM camera in Chermalyk (government-controlled, 31km NE of Mariupol)	3-5km S	Recorded	1	Explosion	Airburst	N/K	17-Aug, 20:46
	3-5km S	Recorded	1	Explosion	Airburst	N/K	17-Aug, 21:20
	2-4km SSE	Recorded	4	Projectile	W to E	N/K	17-Aug, 21:22
	1-3km SSE	Recorded	3	Projectile	ENE to WSW	N/K	17-Aug, 22:56
	1-3km SSE	Recorded	1	Other	Signal flare in vertical flight	N/K	18-Aug, 03:40
SMM camera 1.5km NE of Hnutove (government-controlled, 20km NE of Mariupol)	2-4km E	Recorded	3	Projectile	N to S	N/K	17-Aug, 20:49
	2-4km E	Recorded	1	Projectile	W to E	N/K	17-Aug, 21:02
	2-4km ENE	Recorded	1	Projectile	NW to SE	N/K	17-Aug, 21:02
	2-4km E	Recorded	1	Explosion	Undetermined	N/K	17-Aug, 23:20
	2-4km E	Recorded	1	Explosion	Undetermined	N/K	17-Aug, 23:46
	4-6km E	Recorded	1	Projectile	W to E	N/K	17-Aug, 23:46
	2-4km E	Recorded	2	Projectile	WSW to ENE	N/K	18-Aug, 00:31

	2-4km E	Recorded	1	Projectile	NW to SE	N/K	18-Aug. 00:49
	2-4km E	Recorded	1	Projectile	SW to NE	N/K	18-Aug. 00:49
SMM camera E of Lomakyne (government- controlled, 15km NE of Mariupol)	3-4km NE	Recorded	5	Projectile	In vertical flight	N/K	18-Aug. 02:35
SMM camera at entry-exit checkpoint in Maiorsk (government- controlled, 45km NE of Donetsk)	1.5-3km ENE	Recorded	1	Projectile	N to S	N/K	18-Aug. 01:32
	2-4km E	Recorded	1	Illumination flare	In vertical flight	N/K	18-Aug. 02:52
SMM camera at entry-exit checkpoint in Marinka (government- controlled, 23km SW of Donetsk)	2-4km NNE	Recorded	1	Illumination flare	In vertical flight	N/K	18-Aug. 00:30
SMM camera at entry-exit checkpoint in Pyshchevyk (government- controlled, 25km NE of Mariupol)	4-6km S	Recorded	1	Projectile	NE to SW	N/K	17-Aug. 20:40
	4-6km S	Recorded	1	Explosion	Airburst, subsequent to previous event	N/K	17-Aug. 20:40
	4-6km S	Recorded	1	Explosion	Undetermined	N/K	17-Aug. 20:46
	4-6km S	Recorded	1	Illumination flare	In vertical flight	N/K	17-Aug. 20:46
	4-6km S	Recorded	1	Projectile	E to W	N/K	17-Aug. 20:57
	4-6km S	Recorded	1	Explosion	Undetermined	N/K	17-Aug. 20:57
	4-6km S	Recorded	1	Projectile	W to E	N/K	17-Aug. 21:01
	2-4km SSE	Recorded	1	Projectile	NW to SE	N/K	17-Aug. 21:02
	4-6km S	Recorded	1	Projectile	W to E	N/K	17-Aug. 21:02
	4-6km S	Recorded	1	Projectile	W to E	N/K	17-Aug. 21:03
	4-6km S	Recorded	1	Projectile	W to E	N/K	17-Aug. 21:19
	4-6km S	Recorded	6	Projectile	W to E	N/K	17-Aug. 21:20
	4-6km S	Recorded	1	Explosion	Undetermined	N/K	17-Aug. 21:20
	4-6km S	Recorded	1	Projectile	E to W	N/K	17-Aug. 21:25
	2-4km SSE	Recorded	3	Projectile	E to W	N/K	17-Aug. 21:27
	4-6km S	Recorded	1	Projectile	E to W	N/K	17-Aug. 21:27
	4-6km S	Recorded	1	Muzzle flash		N/K	17-Aug. 21:27
	2-4km SSE	Recorded	2	Projectile	E to W	N/K	17-Aug. 21:30
	4-6km S	Recorded	1	Projectile	E to W	N/K	17-Aug. 21:46
	4-6km S	Recorded	3	Projectile	E to W	N/K	17-Aug. 21:47
	4-6km S	Recorded	3	Projectile	W to E	N/K	17-Aug. 21:47
	4-6km S	Recorded	1	Projectile	W to E	N/K	17-Aug. 21:57
	4-6km S	Recorded	3	Muzzle flash		N/K	17-Aug. 21:57
	4-6km S	Recorded	4	Projectile	W to E	N/K	17-Aug. 22:05
	4-6km S	Recorded	1	Projectile	W to E	N/K	17-Aug. 22:10
	4-6km S	Recorded	3	Projectile	E to W	N/K	17-Aug. 22:13
	4-6km S	Recorded	1	Projectile	E to W	N/K	17-Aug. 22:14
	4-6km S	Recorded	1	Explosion	Undetermined	N/K	17-Aug. 22:49
	4-6km S	Recorded	2	Projectile	E to W	N/K	17-Aug. 22:55
	4-6km S	Recorded	1	Projectile	E to W	N/K	17-Aug. 22:56
	4-6km S	Recorded	1	Projectile	E to W	N/K	17-Aug. 22:59
	4-6km S	Recorded	2	Projectile	E to W	N/K	17-Aug. 23:02
4-6km S	Recorded	2	Projectile	E to W	N/K	17-Aug. 23:04	
4-6km S	Recorded	1	Projectile	In vertical flight	N/K	17-Aug. 23:04	
4-6km SSE	Recorded	1	Projectile	W to E	N/K	17-Aug. 23:05	
4-6km S	Recorded	4	Projectile	W to E	N/K	17-Aug. 23:17	

	4-6km S	Recorded	3	Projectile	W to E	N/K	17-Aug, 23:18
	4-6km S	Recorded	1	Projectile	W to E	N/K	17-Aug, 23:19
	4-6km S	Recorded	2	Projectile	W to E	N/K	17-Aug, 23:20
	2-4km SSE	Recorded	1	Explosion	Airburst	N/K	17-Aug, 23:27
	4-6km S	Recorded	1	Projectile	N to S	N/K	17-Aug, 23:32
	4-6km S	Recorded	1	Projectile	NW to SE	N/K	17-Aug, 23:32
	4-6km SSE	Recorded	1	Explosion	Undetermined	N/K	17-Aug, 23:33
	4-6km S	Recorded	1	Projectile	E to W	N/K	17-Aug, 23:39
	2-4km SSE	Recorded	3	Projectile	E to W	N/K	17-Aug, 23:44
	2-4km SSE	Recorded	3	Projectile	E to W	N/K	17-Aug, 23:45
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	17-Aug, 23:45
	4-6km S	Recorded	2	Projectile	E to W	N/K	17-Aug, 23:50
	4-6km S	Recorded	2	Projectile	W to E	N/K	17-Aug, 23:50
	4-6km S	Recorded	2	Projectile	NE to SW	N/K	17-Aug, 23:51
	2-4km SSE	Recorded	3	Projectile	NE to SW	N/K	18-Aug, 00:09
	2-4km SSE	Recorded	2	Projectile	NE to SW	N/K	18-Aug, 00:10
	2-4km SSE	Recorded	2	Projectile	NE to SW	N/K	18-Aug, 00:11
	4-6km S	Recorded	10	Projectile	W to E	N/K	18-Aug, 00:13
	2-4km SSE	Recorded	11	Projectile	E to W	N/K	18-Aug, 00:23
	2-4km SSE	Recorded	2	Projectile	E to W	N/K	18-Aug, 00:24
	2-4km SSE	Recorded	1	Projectile	E to W	N/K	18-Aug, 00:28
	2-4km SSE	Recorded	6	Projectile	E to W	N/K	18-Aug, 00:30
	2-4km S	Recorded	10	Projectile	E to W	N/K	18-Aug, 00:36
	4-6km SSE	Recorded	7	Projectile	NE to SW	N/K	18-Aug, 00:36
	2-4km SSE	Recorded	7	Projectile	E to W	N/K	18-Aug, 00:39
	2-4km SSE	Recorded	1	Explosion	Airburst	N/K	18-Aug, 00:43
	4-6km S	Recorded	3	Projectile	E to W	N/K	18-Aug, 00:48
	2-4km S	Recorded	1	Projectile	W to E	N/K	18-Aug, 00:48
	2-4km SSE	Recorded	7	Projectile	E to W	N/K	18-Aug, 00:49
	4-6km S	Recorded	5	Projectile	WNW to ESE	N/K	18-Aug, 00:50
	2-4km SSE	Recorded	5	Projectile	E to W	N/K	18-Aug, 00:54
	2-4km SSE	Recorded	4	Projectile	E to W	N/K	18-Aug, 00:56
	2-4km SSE	Recorded	1	Projectile	W to E	N/K	18-Aug, 00:57
	2-4km SSE	Recorded	2	Projectile	E to W	N/K	18-Aug, 00:58
	2-4km S	Recorded	6	Projectile	E to W	N/K	18-Aug, 00:58
	4-6km S	Recorded	2	Projectile	W to E	N/K	18-Aug, 00:59
	4-6km S	Recorded	4	Projectile	W to E	N/K	18-Aug, 01:06
	4-6km S	Recorded	2	Projectile	W to E	N/K	18-Aug, 01:13
	4-6km S	Recorded	2	Projectile	W to E	N/K	18-Aug, 01:51
	4-6km S	Recorded	1	Projectile	W to E	N/K	18-Aug, 01:52
	4-6km S	Recorded	2	Projectile	NNW to SSE	N/K	18-Aug, 01:52
	4-6km S	Recorded	2	Projectile	NW to SE	N/K	18-Aug, 03:52
	5-7km SSE	Recorded	10	Projectile	E to W	N/K	18-Aug, 04:20
About 1km NW of the railway station in Yasynuvata (non-government-controlled, 16km NE of Donetsk)	1km N	Heard	7	Shot	Assessed as training activities.	Small arms	18-Aug, 09:58-10:04
	4-5km SW	Heard	1	Explosion	Undetermined	N/K	18-Aug, 12:00
	3-4km SW	Heard and saw	1	Explosion	Impact	N/K	18-Aug, 13:11
About 1km ESE of Kruta Balka (non-government-controlled, 16km N of Donetsk)	1km N	Heard	11	Shot		Small arms	18-Aug, 10:33-10:40
About 2km N of Petrivske (non-government-	5km SW	Heard	1	Explosion	Undetermined (assessed as inside the disengagement	N/K	18-Aug, 12:28

controlled, 41km S of Donetsk)					area)		
	1km SE	Heard	1	Shot	Assessed as outside the disengagement area	Small arms	18-Aug, 12:34
2km NE of Chernenko (government- controlled, 21km NE of Mariupol)	N/K SSE	Heard	2	Explosion	Undetermined	N/K	18-Aug, 11:20
3km NW of Shyrokyne (government- controlled, 20km E of Mariupol)	N/K ENE	Heard	1	Explosion	Undetermined	N/K	18-Aug, 13:28
Svitlodarsk (government- controlled, 57km NE of Donetsk)	1-2km SSW	Heard	5	Shot		Small arms	17-Aug, 21:04
	1-2km SSW	Heard	8	Shot		Small arms	17-Aug, 22:18
	2-3km SSW	Heard	30	Burst		Small arms	18-Aug, 07:38- 07:45
	2-3km SSW	Heard	41	Burst		HMG	18-Aug, 07:38- 07:45
	2-4km SSW	Heard	18	Explosion	Undetermined	N/K	18-Aug, 07:38- 07:45
	3-6km SSW	Heard	8	Explosion	Undetermined	N/K	18-Aug, 14:03- 14:11
Horlivka (non- government- controlled, 39km NE of Donetsk)	5-7km W	Heard	1	Explosion	Undetermined	N/K	17-Aug, 22:05
	3-5km NW	Heard	4	Burst		HMG	17-Aug, 22:19
	5-7km W	Heard	1	Explosion	Undetermined	N/K	17-Aug, 22:21
	5-7km SW	Heard	5	Explosion	Undetermined	N/K	18-Aug, 00:15- 00:16
	5-7km SW	Heard	4	Explosion	Undetermined	N/K	18-Aug, 00:30- 00:31
E edge of Popasna (government- controlled, 69km W of Luhansk)	1-1.5km ENE	Heard	12	Shot		Small arms	18-Aug, 09:25- 09:42

## Map of Donetsk and Luhansk regions<sup>2</sup>



<sup>2</sup> The SMM is deployed to ten locations throughout Ukraine – Kherson, Odessa, Lviv, Ivano-Frankivsk, Kharkiv, Donetsk, Dnipro, Chernivtsi, Luhansk and Kyiv – as per Permanent Council Decision 1117 of 21 March 2014. This map of eastern Ukraine is meant for illustrative purposes and indicates locations mentioned in the report, as well as those where the SMM has offices (monitoring teams, patrol hubs, and forward patrol bases) in Donetsk and Luhansk regions. (In red: forward patrol bases from which SMM staff has temporarily relocated based on recommendations of security experts from participating States as well as SMM security considerations).