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

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	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
SMM camera	3-5km S	Recorded	1	Explosion	Airburst	N/K	16-Aug, 21:01
in Chermalyk	1.5-2km SE	Recorded	1	Muzzle flash		N/K	16-Aug, 21:23
(government-controlled,	1.5-3km SE	Recorded	1	Projectile	WNW to ESE (subsequent to previous event)	N/K	16-Aug, 21:23
31km NE of Mariupol)	2-4km SSE	Recorded	1	Projectile	NNE to SSW	N/K	16-Aug, 22:37
Mariupor)	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
	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
SMM camera at Donetsk	0.5-1km S	Recorded	1	Illumination flare	In vertical flight	N/K	16-Aug, 21:53
Filtration	0.5-1km S	Recorded	1	Explosion	Undetermined	N/K	17-Aug, 00:25
Station (15km N of Donetsk)	0.3-0.5km SSW	Recorded	1	Explosion	Outgoing	RPG	17-Aug, 02:29
N of Dolletsk)	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	6-8km E	Recorded	1	Explosion	Undetermined	N/K	17-Aug, 00:10
1.5km NE of Hnutove (government- controlled, 20km NE of Mariupol)	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>&</sup>lt;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	1-3km NNE	Recorded	2	Projectile	ESE to WNW	N/K	17-Aug, 01:53
checkpoint in	1-3km NNE	Recorded	4	Projectile	ESE to WNW	N/K	17-Aug, 03:26
Marinka	1-3km NNE	Recorded	3	Projectile	ESE to WNW	N/K	17-Aug, 03:30
(government- controlled,	1-3km NNE	Recorded	1	Projectile	ESE to WNW	N/K	17-Aug, 03:57
23km SW of Donetsk)	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	77 00 2	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
					W to E		
	3-5km S	Recorded	1	Projectile	(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
SMM camera	3-5km SSE	Recorded	1	Projectile	WNW to ESE	N/K	16-Aug, 21:38
at entry-exit checkpoint in	3-5km S	Recorded	1	Projectile	In vertical flight	N/K	16-Aug, 22:09
Pyshchevyk	3-5km S	Recorded	1	Projectile	WNW to ESE	N/K	16-Aug, 22:09
(government-	3-5km S	Recorded	1	Muzzle flash		N/K	16-Aug, 22:09
controlled,	3-5km SSE	Recorded	1	Projectile	W to E	N/K	16-Aug, 22:22
25km NE of	3-5km SSE	Recorded	1	Projectile	WNW to ESE	N/K	16-Aug, 22:33
Mariupol)	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 4-6km SSE	Recorded	1	Projectile	W to E	N/K	16-Aug, 23:00 16-Aug, 23:06
	3-5km SSE	Recorded Recorded	6 1	Projectile Projectile	W to E E to W	N/K 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
1	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	N/K WNW	Heard	2	Explosion	Undetermined	N/K	17-Aug, 11:28- 11:35
Zaichenko (non- government- controlled, 26km NE of Mariupol)	N/K WNW	Heard	1	Explosion	Undetermined	N/K	17-Aug, 12:15
	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
Svitlodarsk	3-5km S	Heard	4	Explosion	Undetermined	N/K	16-Aug, 18:25- 18:29
(government-	3-5km SSE	Heard	4	Explosion	Undetermined	N/K	16-Aug, 18:50
controlled, 57km NE of	1-2km SSE	Heard	14	Burst		Small arms	16-Aug, 19:09- 19:12
Donetsk)	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
	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
Horliyka (non	8-12km NNW	Heard	16	Burst		HMG	16-Aug, 19:08- 19:13
Horlivka (non- government- controlled,	8-12km NNW	Heard	8	Explosion	Undetermined	N/K	16-Aug, 19:08- 19:13
39km NE of Donetsk)	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
g. p. r	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

Secontrolled, 26km N of Lahansky)		T			T.	1	1	
South Not	Nyzhnoteple							
Sam Normanian								17-Δμα 11:36-
25km Not   Lubansky   25km S   Recorded   1   Explosion   Airburst   N/K   17-Aug. 20:46   1   Explosion   Airburst   N/K   17-Aug. 20:40   1-Aug. 20:40	,	8-10km NW	Heard	4	Explosion	Undetermined	N/K	
SMM camera tentry-exit checkpoint in Marinka (government-controlled, 3-km S Recorded   1   Explosion   Airburst   N/K   17-Aug, 20:46   1-km SE   Recorded   1   Explosion   Airburst   N/K   17-Aug, 20:45   1-3km SSE   Recorded   3   Projectile   W to E   N/K   17-Aug, 20:25   1-km SSE   Recorded   1   Other   Signal flare in vertical flight   N/K   17-Aug, 20:49   1-km SE   Recorded   1   Projectile   N/K   17-Aug, 20:40   1-km SE   N/K   18-Aug, 00:31   1-km SE   N/K   18-Aug, 00:31   1-km SE   N/K   18-Aug, 00:31   1-km SE   N/K   18-Aug, 00:32   1-km SE   N/K   18-Aug, 00:34   1-km SE   N/K   18-Aug, 00:34   1-km SE   N/K   18-Aug, 00:34   1-km SE   N/K   18-Aug, 00:35   1-km SE   N/K   1-km								11.50
In Chemalyk (government-controlled, 31km NE of Mariupol)	Luhansk)							
Controlled, 31km NE of Mariupol)	SMM camera			1				
Sam NE of Mariupol)								
31km NE of Mariupol	(government-	2-4km SSE		4	Projectile	W to E	N/K	
Mariupol)	,	1-3km SSE	Recorded	3	Projectile		N/K	17-Aug, 22:56
SMM camera   2-4km E   Recorded   3   Projectile   W to E   N/K   17-Aug, 21:02		1 3km CCE	Pacordad	1	Other	Signal flare in	NI/K	18 Aug 03:40
SMM camera   1.5km NE of   Huttore   (government-controlled, 15km NE of Mariupol)   SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 23km NE of Donetsk)   2-4km E   Recorded   1   Projectile   NW to SE   N/K   17-Aug, 23:40   18-Aug, 00:39   18-Aug, 00:30   18-A	Mariupol)	1-3kiii 33E	Recorded	1	Other			10-Aug, 03.40
1.5km NE of Hindrove (government-controlled, 20km NE of Mariupol)		2-4km E	Recorded	3	Projectile	N to S	N/K	17-Aug, 20:49
Hautove (government-controlled, 20km NE of Mariupol)	SMM camera	2-4km E	Recorded	1	Projectile	W to E	N/K	17-Aug, 21:02
Government-controlled, 20km NE of Mariupol)	1.5km NE of	2-4km ENE	Recorded	1	Projectile	NW to SE	N/K	17-Aug, 21:02
controlled, 20km NE of Mariupol)         4-6km E         Recorded         1         Projectile         W to E         N/K         17-Aug, 23:46         23:4km E         Recorded         2         Projectile         WSW to ENE         N/K         18-Aug, 00:31         N/K         18-Aug, 00:49         N/K         18-Aug, 00:30         N/K         18-Aug, 00:30         N/K         18-Aug, 00:30         N/K         18-Aug, 00:30         N/K         18-Aug, 01:32         N/K	Hnutove	2-4km E	Recorded	1	Explosion	Undetermined	N/K	17-Aug, 23:20
controlled, 20km NE of Mariupol)         4-6km E         Recorded         1         Projectile         W to E         N/K         17-Aug, 23:46         23:4km E         Recorded         2         Projectile         WSW to ENE         N/K         18-Aug, 00:31         N/K         18-Aug, 00:49         N/K         18-Aug, 00:30         N/K         18-Aug, 00:30         N/K         18-Aug, 00:30         N/K         18-Aug, 00:30         N/K         18-Aug, 01:32         N/K	(government-	2-4km E	Recorded	1	Explosion	Undetermined	N/K	17-Aug, 23:46
2.4km E   Recorded   2   Projectile   WSW to ENE   N/K   18-Aug, 00:31	controlled,	4-6km E	Recorded	1				
Mariupol   2-4km E   Recorded   1   Projectile   NW to SE   N/K   18-Aug, 00:49				2				
SMM camera	Mariupol)							
SMM camera   SMR	. ,							
E of Lomakyne (government-controlled, 15km NE of Mariupot)	SMM camera	2 IKH E	recorded	-	Trojectiie	BW to IVE	11/11	10 1145, 00.19
Government-controlled, 15km NE of Mariupol)   SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)   SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)   Second of Donetsk)   Second of Donetsk)   Second of Donetsk   Second of								
1.5-3km   Recorded   5						In vertical		
15km NE of Mariupol)		3-4km NE	Recorded	5	Projectile		N/K	18-Aug, 02:35
Mariupol   SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)   2-4km NE	· · · · · · · · · · · · · · · · · · ·					ingin		
SMM camera at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)								
at entry-exit checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)  SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)  4-6km S Recorded 1 Explosion undetermined with Earlow of flare flight  SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)  4-6km S Recorded 1 Explosion undetermined N/K 17-Aug, 20:40  4-6km S Recorded 1 Explosion undetermined N/K 17-Aug, 20:40  4-6km S Recorded 1 Projectile E to W N/K 17-Aug, 20:57  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, 21:02  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, 21:02  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, 21:02  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, 21:02  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, 21:02  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, 21:02  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, 21:02  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, 21:02  4-6km S Recorded 1 Projectile W to E N/K 17-Aug, 21:02  4-6km S Recorded 1 Projectile E to W N/K 17-Aug, 21:02  4-6km S Recorded 1 Projectile E to W N/K 17-Aug, 21:02  4-6km S Recorded 1 Projectile E to W N/K 17-Aug, 21:02  4-6km S Recorded 1 Projectile E to W N/K 17-Aug, 21:22  4-6km S Recorded 1 Projectile E to W N/K 17-Aug, 21:22  4-6km S Recorded 1 Projectile E to W N/K 17-Aug, 21:22  4-6km S Recorded 1 Projectile E to W N/K 17-Aug, 21:22  4-6km S Recorded 1 Projectile E to W N/K 17-Aug, 21:22		1 5-3km						
Checkpoint in Maiorsk (government-controlled, 45km NE of Donetsk)			Recorded	1	Projectile	N to S	N/K	18-Aug, 01:32
Maiorsk	•	ELLE						
Government-controlled, 45km NE of Donetsk)								
Controlled,   45km NE   6					Illumination	In vertical		
A5km NE of   Donetsk   SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk )		2-4km E	Recorded	1			N/K	18-Aug, 02:52
Donetsk   SMM camera at entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)	· · · · · · · · · · · · · · · · · · ·				Titale	mgm		
SMM camera at entry-exit checkpoint in Marinaba (government-controlled, 23km SW of Donetsk)								
At entry-exit checkpoint in Marinka (government-controlled, 23km SW of Donetsk)								
Checkpoint in Marinka (government-controlled, 23km SW of Donetsk)								
Narinka (government-controlled, 23km SW of Donetsk)								
Controlled, 23km SW of Donetsk    4-6km S   Recorded   1   Explosion   SMM camera at entry-exit checkpoint in Pyshchevyk (government-controlled, 25km NE of Mariupol)   4-6km S   Recorded   1   Explosion   Drojectile   NE to SW   N/K   17-Aug, 20:40					Illumination	In vertical		
Controlled, 23km SW of Donetsk		2-4km NNE	Recorded	1	flare		N/K	18-Aug, 00:30
23km SW of Donetsk						8		
Donetsk								
4-6km S   Recorded   1   Projectile   NE to SW   N/K   17-Aug, 20:40								
4-6km S   Recorded   1   Explosion   Subsequent to previous event.   4-6km S   Recorded   1   Explosion   Undetermined   N/K   17-Aug, 20:46	/	4-6km S	Recorded	1	Projectile	NE to SW	N/K	17-Aug. 20:40
4-6km S   Recorded   1   Explosion   Subsequent to previous event.   17-Aug, 20:40					,			
A-6km S   Recorded   1   Explosion   Undetermined   N/K   17-Aug, 20:46		4-6km S	Recorded	1	Explosion		N/K	17-Aug. 20:40
A-6km S   Recorded   1   Explosion   Undetermined   N/K   17-Aug, 20:46			110001404	*			1,722	1, 1105, 20.10
A-6km S   Recorded   1   Illumination   flare   flight   N/K   17-Aug, 20:46		4-6km S	Recorded	1	Explosion		N/K	17-Aug. 20:46
SMM camera at entry-exit checkpoint in Pyshchevyk (government-controlled, 25km NE of Mariupol)   A-6km S Recorded 1 Projectile W to E N/K 17-Aug, 21:03								
SMM camera at entry-exit checkpoint in Pyshchevyk (government-controlled, 25km NE of Mariupol)         4-6km S         Recorded 1         Projectile Projectile Projectile NW to E N/K Projectile Projectile NW to E N/K Projectile Projectile NW to E N/K Projectile Projectile Projectile Projectile Projectile E to W N/K Project		4-6km S	Recorded	1			N/K	17-Aug, 20:46
at entry-exit checkpoint in Pyshchevyk (government-controlled, Mariupol)         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, 21:02           2-4km SSE         Recorded         1         Projectile         W to E         N/K         17-Aug, 21:02           25km NE of Mariupol)         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, 21:02           4-6km S         Recorded         1         Projectile         W to E         N/K         17-Aug, 21:19           4-6km S         Recorded         1         Explosion         Undetermined         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         1         Projectile         E to W         N/K	CMM a	4-6km S	Recorded	1			N/K	17-Aug 20:57
checkpoint in Pyshchevyk (government-controlled, 25km NE of Mariupol)         4-6km S         Recorded 1         Projectile Projectile NW to SE         N/K         17-Aug, 21:01           Mariupol)         4-6km S         Recorded 1         Projectile W to E         N/K         17-Aug, 21:02           Mariupol)         4-6km S         Recorded 1         Projectile W to E         N/K         17-Aug, 21:03           Mariupol)         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 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, 21:25           2-4km SSE         Recorded 1         Projectile E to W         N/K         17-Aug, 21:27								
Pyshchevyk (government- controlled, 25km NE of Mariupol)         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, 21:03           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, 21:25           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         Projectile         E to W         N/K         17-Aug, 21:27           4-6km S<								
(government-controlled, 25km NE of Mariupol)         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         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								
Controlled, 25km NE of Mariupol)         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								
25km NE of Mariupol)         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								
Mariupol)         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								
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								
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	wiaiiupoi)							
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								
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								
4-6km S Recorded 1 Muzzle flash N/K 17-Aug, 21:27								
						E to W		
1 2-4km SSE   Recorded   2   Projectile   F to W   N/K   17 Aug 21-20								
		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	1	Projectile	E to W	N/K	17-Aug, 21:46

	1				I		T 1
	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				·	Assessed as	Small	18-Aug, 09:58-
NW of the	1km N	Heard	7	Shot	part of a live	arms	10:04
	1		1	1	1.4	1	

railway station					fire training		
in Yasynuvata					exercise		
(non-	4-5km SW	Heard	1	Explosion	Undetermined	N/K	18-Aug, 12:00
government- controlled, 16km NE of Donetsk)	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 area)	N/K	18-Aug, 12:28
controlled, 41km S of Donetsk)	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
	1-2km SSW	Heard	5	Shot		Small arms	17-Aug, 21:04
Svitlodarsk	1-2km SSW	Heard	8	Shot		Small arms	17-Aug, 22:18
(government- controlled,	2-3km SSW	Heard	30	Burst		Small arms	18-Aug, 07:38- 07:45
57km NE of	2-3km SSW	Heard	41	Burst		HMG	18-Aug, 07:38- 07:45
Donetsk)	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
	5-7km W	Heard	1	Explosion	Undetermined	N/K	17-Aug, 22:05
Horlivka (non-	3-5km NW	Heard	4	Burst		HMG	17-Aug, 22:19
government- controlled,	5-7km W	Heard	1	Explosion	Undetermined	N/K	17-Aug, 22:21 18-Aug, 00:15-
39km NE of	5-7km SW	Heard	5	Explosion	Undetermined	N/K	00:16
Donetsk)	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	3-6km S	Recorded	1	Explosion	Undetermined	N/K	16-Aug, 20:17
in Chermalyk	2-4km SSE	Recorded	6	Projectile	W to E	N/K	16-Aug, 20:38
(government-	2-4km SSE	Recorded	4	Projectile	W to E	N/K	16-Aug, 20:39
controlled,	3-5km S	Recorded	1	Explosion	Airburst	N/K	16-Aug, 21:01
31km NE of	1.5-2km SE	Recorded	1	Muzzle flash		N/K	16-Aug, 21:23

Mariupol)	T			Ι	WNW to ESE	1	1
Wallupol)	1.5-3km SE	Recorded	1	Projectile	(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
	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
SMM camera at Donetsk	0.5-1km S	Recorded	1	Illumination flare	In vertical flight	N/K	16-Aug, 21:53
Filtration	0.5-1km S	Recorded	1	Explosion	Undetermined	N/K	17-Aug, 00:25
Station (15km	0.3-0.5km SSW	Recorded	1	Explosion	Outgoing	RPG	17-Aug, 02:29
N of Donetsk)	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	6-8km E	Recorded	1	Explosion	Undetermined	N/K	17-Aug, 00:10
1.5km NE of Hnutove (government- controlled, 20km NE of Mariupol)	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
at entry-exit	1-3km NNE	Recorded	2	Projectile	ESE to WNW	N/K	17-Aug, 01:53
checkpoint in Marinka	1-3km NNE	Recorded	4	Projectile	ESE to WNW	N/K	17-Aug, 03:26
(government- controlled, 23km SW of Donetsk)	1-3km NNE 1-3km NNE	Recorded Recorded	1	Projectile Projectile	ESE to WNW ESE to WNW	N/K N/K	17-Aug, 03:30 17-Aug, 03:57
,	3-5km S	Recorded	1	Projectile	WNW to ESE	N/K	16-Aug, 20:05
G) O f	3-5km S	Recorded	1	Projectile	NW to SE	N/K	16-Aug, 20:05
SMM camera	2-4km S	Recorded	1	Explosion	Undetermined	N/K	16-Aug, 20:12
at entry-exit	3-5km S	Recorded	2	Explosion	Undetermined	N/K	16-Aug, 20:17
checkpoint in	3-5km S	Recorded	1	Projectile	W to E	N/K	16-Aug, 20:19
Pyshchevyk	3-5km S	Recorded	1	Projectile	W to E	N/K	16-Aug, 20:20
(government- controlled,	1-3km SSE	Recorded	1	Muzzle flash		N/K	16-Aug, 20:23
25km NE of	3-5km S	Recorded	1	Projectile	W to E	N/K	16-Aug, 20:24
Mariupol)	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

		1		1	ı		
	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
					W to E		<u> </u>
	3-5km S	Recorded	1	Projectile	(subsequent to	N/K	16-Aug, 21:10
	J-JKIII S	Recorded	1	1 Tojectiic	previous event)	14/15	10-Aug, 21.10
	2 11 2			3.5 1.00 1	previous event)	37/77	
	2-4km S	Recorded	2	Muzzle flash		N/K	16-Aug, 21:12
					E to W		
	2-4km S	Recorded	2	Projectile	(subsequent to	N/K	16-Aug, 21:12
				3	previous event)	-	8,
	2-4km S	Recorded	2	Muzzle flash	previous event)	N/K	16-Aug, 21:37
	2-4KIII 5	Recorded		WIUZZIE Hash	E . W	1N/ IX	10-Aug, 21.37
					E to W		
	2-4km S	Recorded	2	Projectile	(subsequent to	N/K	16-Aug, 21:37
					previous event)		
	3-5km SSE	Recorded	1	Projectile	WNW to ESE	N/K	16-Aug, 21:38
					In vertical		
	3-5km S	Recorded	1	Projectile	flight	N/K	16-Aug, 22:09
	2.51 0	D 1.1	1	D : (1		NT/TZ	16 4 22 00
	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
					Wito E		
	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							<u> </u>
of Petrivske					Undetermined		
					(assessed as		
(non-	2.51 0		_	E 1 .	`	NT/TZ	17-Aug, 11:32-
government-	3-5km S	Heard	9	Explosion	outside the	N/K	11:38
controlled,					disengagement	1	11.00
41km S of					area)	İ	
Donetsk)						1	
About 3km	1					1	17-Aug, 11:28-
NNE of	N/K WNW	Heard	2	Explosion	Undetermined	N/K	
						<del>                                     </del>	11:35
Zaichenko						1	
(non-	N/K WNW	Heard	1	Explosion	Undetermined	N/K	17-Aug, 12:15
	T 4/ TZ AA T A AA	iicaiu	1	LAPIOSIOII	Chacternillea	1 1/ 1%	17-11ug, 12.13
government-							
government- controlled,							

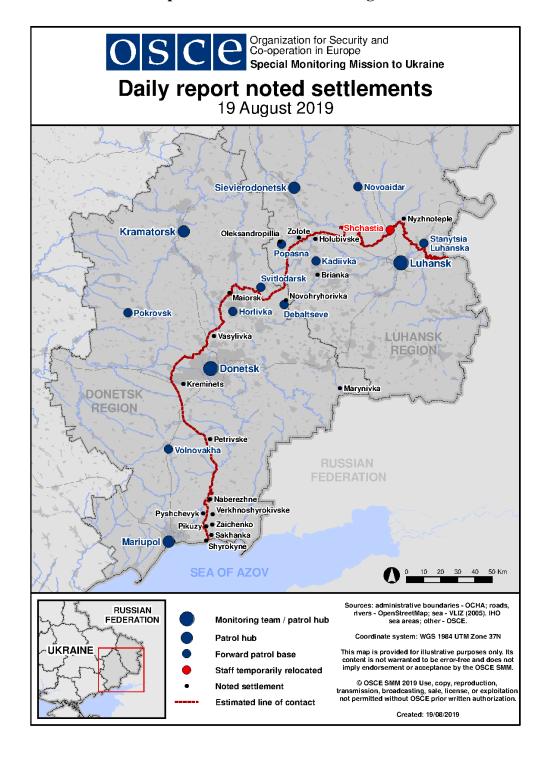
26km NE of	1						1
Mariupol)							
	3-5km S	Heard	24	Explosion	Undetermined	N/K	16-Aug, 18:01- 18:14
	3-5km S	Heard	14	Explosion	Undetermined	N/K	16-Aug, 18:15- 18:20
	3-5km S	Heard	4	Explosion	Undetermined	N/K	16-Aug, 18:25- 18:29
Svitlodarsk	3-5km SSE	Heard	4	Explosion	Undetermined	N/K	16-Aug, 18:50
(government-controlled,	1-2km SSE	Heard	14	Burst		Small arms	16-Aug, 19:09- 19:12
57km NE of Donetsk)	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
	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
Hadiadaa (a.a.	8-12km NNW	Heard	16	Burst		HMG	16-Aug, 19:08- 19:13
Horlivka (non- government-	8-12km NNW	Heard	8	Explosion	Undetermined	N/K	16-Aug, 19:08- 19:13
controlled, 39km NE of	8-12km NNW	Heard	26	Burst		HMG	16-Aug, 19:58- 20:00
Donetsk)	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	3-5km S	Recorded	1	Explosion	Airburst	N/K	17-Aug, 20:46
in Chermalyk	3-5km S	Recorded	1	Explosion	Airburst	N/K	17-Aug, 21:20
(government-	2-4km SSE	Recorded	4	Projectile	W to E	N/K	17-Aug, 21:22
controlled, 31km NE of	1-3km SSE 1-3km SSE	Recorded Recorded	1	Projectile Other	ENE to WSW Signal flare in	N/K N/K	17-Aug, 22:56 18-Aug, 03:40
Mariupol)	2-4km E	Recorded	3	Projectile	vertical flight N to S	N/K	17-Aug, 20:49
SMM camera	2-4km E 2-4km E	Recorded	1	Projectile	W to E	N/K N/K	17-Aug, 20:49 17-Aug, 21:02
1.5km NE of Hnutove	2-4km E 2-4km ENE	Recorded	1	Projectile	NW to SE	N/K N/K	17-Aug, 21:02 17-Aug, 21:02
Hnutove (government-	2-4km ENE 2-4km E	Recorded		Explosion	Undetermined	N/K N/K	
(government-			1				17-Aug, 23:20 17-Aug, 23:46
·C	2-4km F	Recorded					
controlled, 20km NE of	2-4km E 4-6km E	Recorded Recorded	1	Explosion Projectile	Undetermined W to E	N/K N/K	17-Aug, 23:46 17-Aug, 23:46

	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	1.5-3km ENE	Recorded	1	Projectile	N to S	N/K	18-Aug, 01:32
checkpoint in Maiorsk (government- controlled, 45km NE of Donetsk)	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
	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
SMM camera	4-6km S 2-4km SSE	Recorded Recorded	3	Projectile	E to W	N/K N/K	17-Aug, 21:25
at entry-exit	4-6km S	Recorded	1	Projectile Projectile	E to W E to W	N/K	17-Aug, 21:27 17-Aug, 21:27
checkpoint in Pyshchevyk	4-6km S	Recorded	1	Muzzle flash	E to W	N/K	17-Aug, 21:27
(government-	2-4km SSE	Recorded	2	Projectile	E to W	N/K	17-Aug, 21:30
controlled,	4-6km S	Recorded	1	Projectile	E to W	N/K	17-Aug, 21:46
25km NE of	4-6km S	Recorded	3	Projectile	E to W	N/K	17-Aug, 21:47
Mariupol)	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	W. F.	N/K	17-Aug, 21:57
	4-6km S	Recorded	4	Projectile	W to E	N/K	17-Aug, 22:05
	4-6km S 4-6km S	Recorded Recorded	3	Projectile Projectile	W to E E to W	N/K N/K	17-Aug, 22:10 17-Aug, 22:13
	4-6km S	Recorded	1	Projectile	E to W	N/K N/K	17-Aug, 22:13 17-Aug, 22:14
	4-6km S	Recorded	1	Explosion	Undetermined	N/K	17-Aug, 22:14 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 Cl C	D1-1	2	D:4:1-	W to E	NT/IZ	17 1 22.10
	4-6km S	Recorded	3	Projectile		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
			3	•		N/K	
	4-6km S	Recorded		Projectile	E to W		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 N/K	18-Aug, 03:32
A h ovet 11	3-7KIII SSE	Recorded	10	riojectile		IN/IX	16-Aug, 04:20
About 1km	11 N	1 1	7	Ch - d	Assessed as	Small	18-Aug, 09:58-
NW of the	1km N	Heard	7	Shot	training	arms	10:04
railway station	4.51 0337	11 1	1	F 1 .	activities.		10 4 12 00
in Yasynuvata	4-5km SW	Heard	1	Explosion	Undetermined	N/K	18-Aug, 12:00
(non-							
government-	0.41 0	Heard			_	37.77	10.4
controlled,	3-4km SW	and saw	1	Explosion	Impact	N/K	18-Aug, 13:11
16km NE of							
Donetsk)							
About 1km							
ESE of Kruta							
Balka (non-						Small	18-Aug, 10:33-
government-	1km N	Heard	11	Shot		arms	10:40
controlled,						arms	10.70
16km N of							
Donetsk)							
About 2km N					Undetermined		
of Petrivske	Floor CVV	1101	1	Evel:	(assessed as	NI/IZ	10 4 10 00
(non-	5km SW	Heard	1	Explosion	inside the	N/K	18-Aug, 12:28
government-					disengagement		
. ~			·			·	•

		1	1	1			1
controlled, 41km S of					area) Assessed as		
Donetsk)	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
	1-2km SSW	Heard	5	Shot		Small arms	17-Aug, 21:04
	1-2km SSW	Heard	8	Shot		Small arms	17-Aug, 22:18
Svitlodarsk (government-	2-3km SSW	Heard	30	Burst		Small arms	18-Aug, 07:38- 07:45
controlled, 57km NE of	2-3km SSW	Heard	41	Burst		HMG	18-Aug, 07:38- 07:45
Donetsk)	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
	5-7km W	Heard	1	Explosion	Undetermined	N/K	17-Aug, 22:05
Horlivka (non-	3-5km NW	Heard	4	Burst		HMG	17-Aug, 22:19
government-	5-7km W	Heard	1	Explosion	Undetermined	N/K	17-Aug, 22:21
controlled, 39km NE of	5-7km SW	Heard	5	Explosion	Undetermined	N/K	18-Aug, 00:15- 00:16
Donetsk)	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).