	Event						
SMM position	location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera in	2-4km SE	Recorded	1	Explosion	Undetermined	N/K	22-May, 21:50
Avdiivka							
(government-							
controlled, 17km				Illumination	In vertical		
N of Donetsk)	2-4km ESE	Recorded	1	flare	flight	N/K	23-May, 02:10
				Illumination	In vertical		
	2-4km SE	Recorded	1	flare	flight	N/K	23-May, 02:03
				Illumination	In vertical		
SMM camera in	2-4km SE	Recorded	1	flare	flight	N/K	23-May, 02:13
Berezove	2-4km ESE	Recorded	1	Explosion	Undetermined	N/K	23-May, 02:57
(government-	2-4km ESE	Recorded	1	Explosion	Undetermined	N/K	23-May, 02:59
controlled, 31km	2-4km ESE	Recorded	1	Explosion	Undetermined	N/K	23-May, 03:01
SW of Donetsk)	2-4km ESE	Recorded	1	Explosion	Undetermined	N/K	23-May, 03:03
	2-4km ESE	Recorded	1	Explosion	Undetermined	N/K	23-May, 03:08
	2-4km ESE	Recorded	1	Explosion	Undetermined	N/K	23-May, 03:14
	2-4km SE	Recorded	1	Explosion	Undetermined	N/K	23-May, 03:19
	2-4km SE	Recorded	8	Projectile	ENE to WSW	N/K	22-May, 21:25
	2-4km SSE	Recorded	1	Projectile	WSW to ENE	N/K	22-May, 21:59
	2-4km SSE	Recorded	1	Projectile	WSW to ENE	N/K	22-May, 22:01
	2-4km SE	Recorded	2	Projectile	ENE to WSW	N/K	22-May, 22:03
	2-4km SE	Recorded	2	Projectile	ENE to WSW	N/K	22-May, 22:04
	2-4km SE 2-4km SE	Recorded Recorded	2	Projectile Projectile	NE to SW	N/K N/K	22-May, 22:06
			4		ENE to WSW	N/K	22-May, 22:07
	2-4km SE 2-4km SE	Recorded Recorded	1 5	Projectile Projectile	ENE to WSW WSW to ENE	N/K N/K	22-May, 22:11 22-May, 22:13
	2-4km SE	Recorded	19	Projectile	WSW to ENE	N/K	22-May, 22:13 22-May, 22:14
CMM	2-4km SSE	Recorded	2	Explosion	Undetermined	N/K	22-May, 22:14 22-May, 22:17
SMM camera in Chermalyk	2-4km SSE	Recorded	2	Projectile	ENE to WSW	N/K	22-May, 22:17 22-May, 22:18
(government-	2-4km SSL	Recorded	10	Projectile	ENE to WSW	N/K	22-May, 22:48
controlled, 31km	2-4km SE	Recorded	11	Projectile	NE to SW	N/K	22-May, 22:48
NE of Mariupol)	2-4km SSE	Recorded	1	Projectile	NE to SW	N/K	22-May, 22:52
itiz of manupoly	2-4km SSE	Recorded	2	Projectile	NE to SW	N/K	22-May, 22:52
	2-4km SE	Recorded	1	Projectile	NE to SW	N/K	22-May, 22:57
	2-4km SE	Recorded	1	Projectile	NE to SW	N/K	22-May, 23:16
	2-4km SE	Recorded	2	Projectile	NE to SW	N/K	22-May, 23:17
	2-4km SE	Recorded	1	Projectile	NE to SW	N/K	22-May, 23:35
	2-4km SE	Recorded	1	Projectile	NE to SW	N/K	22-May, 23:36
	2-4km SE	Recorded	4	Projectile	NE to SW	N/K	22-May, 23:40
	2-4km SE	Recorded	3	Projectile	NE to SW	N/K	23-May, 00:09
	2-4km SE	Recorded	1	Explosion	Undetermined	N/K	23-May, 00:09
	3-5km SSE	Recorded	1	Explosion	Undetermined	N/K	23-May, 01:42
	1-2km SSW	Recorded	1	Projectile	WNW to ESE	N/K	22-May, 21:37
SMM camera at	1-2km SSW	Recorded	1	Projectile	WNW to ESE	N/K	22-May, 21:40
Donetsk Filtration	1-2km SSW	Recorded	1	Projectile	WNW to ESE	N/K	22-May, 21:43
Station (15km N	1-2km SSW	Recorded	1	Projectile	WNW to ESE	N/K	22-May, 21:44
of Donetsk)	1-2km SSW	Recorded	1	Projectile	WNW to ESE	N/K	22-May, 21:59
	1-2km SSW	Recorded	1	Projectile	WNW to ESE	N/K	22-May, 22:19
SMM camera	2-4km ENE	Recorded	1	Explosion	Undetermined	N/K	22-May, 21:26
1.5km NE of	2-4km ENE	Recorded	2	Projectile	N to S	N/K	22-May, 21:27
Hnutove	2-4km ESE	Recorded	1	Explosion	Undetermined	N/K	22-May, 21:29
(government-	2-4km ESE	Recorded	1	Explosion	Undetermined	N/K	22-May, 21:31
controlled, 20km	2-4km ESE	Recorded	1	Explosion	Undetermined	N/K	22-May, 21:33

Table of ceasefire violations as of 23 May 2019¹

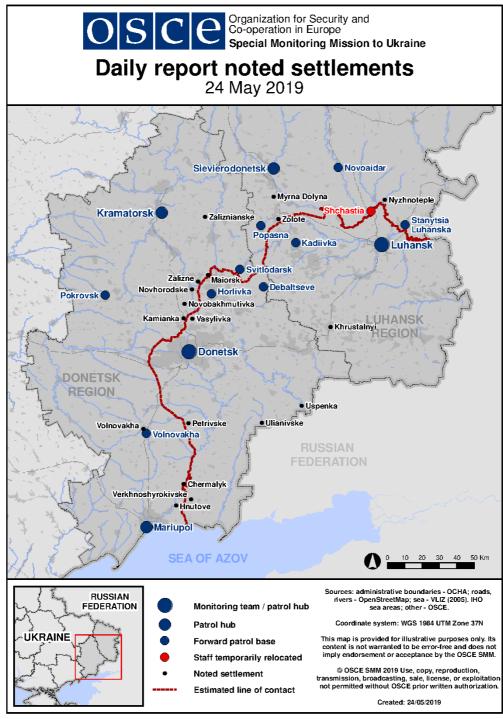
¹ The table only includes ceasefire violations directly observed by the SMM and it may include those also assessed to be live-fire exercises, controlled detonations, etc. Details provided – in terms of distance, direction, weapons-type, etc. – are based on assessments provided by monitors on the ground, 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.

NE of Mariumal)	2 Alma ESE	Recorded	1	Euplacian	Undetermined	N/V	22 May 21.24
NE of Mariupol)	2-4km ESE 2-4km ESE	Recorded	1	Explosion Explosion	Undetermined Undetermined	N/K N/K	22-May, 21:34 22-May, 21:36
	2-4km E	Recorded	3	Projectile	N to S	N/K	22-May, 21:30 22-May, 21:47
	2-4km ENE	Recorded	2	Projectile	N to S	N/K	22-May, 21:54
	2-4km ENE	Recorded	1	Projectile	N to S	N/K	22-May, 21:54 22-May, 21:55
	2-4km ENE	Recorded	1	Projectile	N to S	N/K	22-May, 21:55 22-May, 21:59
	2-4km ENE	Recorded	1	Explosion	Undetermined	N/K	22-May, 23:09
	2-4km ENE	Recorded	1	Explosion	Undetermined	N/K	22-May, 23:18
	2-4km ENE	Recorded	1	Explosion	Undetermined	N/K	22-May, 23:19
	2-4km ENE	Recorded	1	Projectile	N to S	N/K	23-May, 01:56
	2-4km ENE	Recorded	3	Projectile	N to S	N/K	23-May, 01:57
	2-4km ENE	Recorded	4	Projectile	N to S	N/K	23-May, 01:58
	3-5km ENE	Recorded	3	Projectile	S to N	N/K	23-May, 02:05
	3-5km ENE	Recorded	4	Projectile	N to S	N/K	23-May, 02:06
	3-5km E	Recorded	1	Projectile	S to N	N/K	23-May, 02:06
	3-5km E	Recorded	4	Projectile	S to N	N/K	23-May, 02:08
	3-5km E	Recorded	10	Projectile	S to N	N/K	23-May, 02:11
	3-5km ENE	Recorded	6	Projectile	N to S	N/K	23-May, 02:12
	3-5km ENE	Recorded	1	Projectile	N to S	N/K	23-May, 02:13
	3-5km ENE	Recorded	7	Projectile	N to S	N/K	23-May, 02:15
	3-5km ENE	Recorded	1	Projectile	N to S	N/K	23-May, 02:16
	3-5km ENE	Recorded	2	Projectile	N to S	N/K	23-May, 02:17
	3-5km ENE	Recorded	1	Explosion	Undetermined	N/K	23-May, 02:23
	3-5km ENE	Recorded	1	Explosion	Undetermined	N/K	23-May, 02:58
	3-5km ENE	Recorded	1	Explosion	Undetermined	N/K	23-May, 03:06
	3-5km ENE	Recorded	2	Explosion	Undetermined	N/K	23-May, 03:15
	4-6km ENE	Recorded	1	Explosion	Undetermined	N/K	23-May, 01:38
	4-6km ENE	Recorded	1	Explosion	Undetermined	N/K	23-May, 01:38
	4-6km ENE	Recorded	1	Explosion	Undetermined	N/K	23-May, 01:49
SMM camera in			1	Explosion	Airburst	N/K	
Hranitne	4-6km ENE	Recorded				N/K	23-May, 02:54
(government-	4-6km E	Recorded	1	Explosion	Undetermined	N/K	23-May, 02:57
controlled, 60km	4-6km E	Recorded	1	Explosion	Undetermined		23-May, 02:58
S of Donetsk)	4-6km E	Recorded	1	Explosion	Undetermined	N/K	23-May, 02:59
	4-6km E	Recorded	1	Explosion	Undetermined	N/K	23-May, 03:00
	4-6km E	Recorded	1	Explosion	Undetermined	N/K	23-May, 03:01
	4-6km E	Recorded	1	Explosion	Undetermined	N/K	23-May, 03:02
	1-3km ENE	Recorded	2	Explosion	Undetermined	N/K	22-May, 22:32
	1-3km ENE	Recorded	1	Explosion	Undetermined	N/K	22-May, 22:51
SMM camera E of				Illumination	In vertical	/	
Lomakyne	2-4km NNE	Recorded	1	flare	flight	N/K	22-May, 23:36
(government-	2-4km ENE	Recorded		Explosion	Undetermined	N/K	23-May, 00:57
controlled, 15km	2-4km ENE	Recorded	1	Explosion	Undetermined	N/K	23-May, 00:59
NE of Mariupol)	2-4km ENE	Recorded	1	Explosion	Undetermined	N/K	23-May, 01:32
	3-5km ENE	Recorded	1	Explosion	Undetermined	N/K	23-May, 02:49
	3-5km NE	Recorded	1	Explosion	Undetermined	N/K	23-May, 02:51
SMM camera at	2-5km E	Recorded	1	Projectile	N to S	N/K	22-May, 23:45
entry-exit	2-5km E	Recorded	2	Projectile	N to S	N/K	22-May, 23:46
checkpoint in	2-4km E	Recorded	13	Projectile	SW to NE	N/K	22-May, 23:51
Maiorsk							
(government-							
controlled, 45km							
NE of Donetsk)	2-4km E	Recorded	3	Projectile	SW to NE	N/K	22-May, 23:52
SMM camera at	1-3km NNE	Recorded	3	Projectile	SW to NE	N/K	23-May, 03:17
entry-exit	1-3km NNE	Recorded	3	Projectile	SW to NE	N/K	23-May, 03:18
checkpoint in	1-3km NNE	Recorded	3	Projectile	SE to NW	N/K	23-May, 03:18
Marinka	1-3km N	Recorded	1	Projectile	WSW to ENE	N/K	23-May, 03:18
(government-	1-3km NNE	Recorded	1	Projectile	ESE to WNW	N/K	23-May, 03:19
00, enment-			-				,,,
controlled, 23km					CITLA NIE	NI/IZ	23-May, 03:19
	1-3km NNE	Recorded	3	Projectile	SW to NE	N/K	25^{-1} (10)
controlled, 23km	1-3km NNE 3-5km SSW	Recorded Recorded	3	Projectile Explosion	SW to NE Undetermined	N/K N/K	22-May, 05:19 22-May, 22:13
controlled, 23km SW of Donetsk)							
controlled, 23km SW of Donetsk) SMM camera at	3-5km SSW	Recorded	1	Explosion	Undetermined	N/K	22-May, 22:13 22-May, 22:17
controlled, 23km SW of Donetsk) SMM camera at entry-exit	3-5km SSW 3-5km SSW	Recorded Recorded	1 1	Explosion Explosion	Undetermined Undetermined	N/K N/K	22-May, 22:13

controlled, 25km	3-5km SSW	Recorded	1	Explosion	Undetermined	N/K	22-May, 22:34
NE of Mariupol)	3-5km SSW	Recorded	1	Explosion	Undetermined	N/K	22-May, 22:35
· · ··································	3-5km SSW	Recorded	2	Explosion	Undetermined	N/K	22-May, 22:36
	1-3km S	Recorded	1	Explosion	Undetermined	N/K	22-May, 22:30
	3-5km SSW	Recorded	1	Explosion	Undetermined	N/K	22-May, 22:53
	3-5km SSW	Recorded	1	Explosion	Undetermined	N/K	22-May, 22:55
SE edge of	1km ESE	Heard	8	Burst	Undetermined	HMG	23-May, 09:50
Avdiivka	IKIII ESE	nealu	0	Buist		пмо	23-May, 10:05-
(government-	4 51mm E	Hoord	2	Euplacian	Undetermined	NI/IZ	
controlled, 17km	4-5km E	Heard	3	Explosion	Undetermined	N/K	10:10
	1km SE	Heard	2	Euplacian	Undetermined	N/K	22 May 11.29
N of Donetsk)	2-3km NW	Heard	2	Explosion	Undetermined	HMG	23-May, 11:28
About 1km NW of	2-3Km N W	Heard	6	Burst			23-May, 09:55
the railway station	1 1 51 NIW	II.	2	C1		Small	22 Mars 10.10
in Yasynuvata	1-1.5km NW	Heard	2	Shot		arms	23-May, 10:19
(non-government-						Small	23-May, 10:20-
controlled, 16km	2-3km N	Heard	45	Shot		arms	10:26
NE of Donetsk)	2-3km NW	Heard	1	Explosion	Undetermined	N/K	23-May, 12:07
-	2-3km SW	Heard	1	Explosion	Undetermined	N/K	23-May, 12:38
About 1km E of							
Kruta Balka (non-							
government-							
controlled, 16km							
N of Donetsk)	3-4km SSW	Heard	1	Explosion	Undetermined	N/K	23-May, 11:30
	2-4km W	Heard	5	Explosion	Undetermined	N/K	23-May, 15:15
Donetsk central			-			Small	,
railway station	1-2km W	Heard	2	Burst		arms	23-May, 15:15
(non-government-	1 2811 11	Ilculu	2	Duist		Small	25 Widy, 15.15
controlled, 6km	1-2km W	Heard	5	Shot			22 May 15.19
NW of Donetsk	1-2KIII VV	пеац	5	51101		arms	23-May, 15:18
city centre)	1 21 W	II.	1	Descent		Small	22 Mar. 15.20
TT 1' 1 /	1-3km W	Heard	1	Burst		arms	23-May, 15:20
Horlivka (non-	3-5km W	Heard	6	Burst		HMG	22-May, 22:54
government-							
controlled, 39km				_			
NE of Donetsk)	3-5km W	Heard	2	Burst		HMG	22-May, 23:10
NW edge of							
Horlivka (non-							
government							
controlled, 39km						Small	
NE of Donetsk)	1-2km N	Heard	1	Burst		arms	23-May, 11:32
						Small	23-May, 10:02-
	2-2.5km E	Heard	18	Burst		arms	10:05
						Small	23-May, 10:08-
	2-2.5km E	Heard	5	Burst		arms	10:09
	2-3km ESE	Heard	2	Explosion	Undetermined	N/K	23-May, 10:09
	2-3km ESE	Heard	2	Explosion	Undetermined	N/K	23-May, 10:14
	2 Unit EDE	110010	_	Lipiobioli		Small	23-May, 10:16-
	2-2.5km E	Heard	8	Burst		arms	10:18
	2-2.5KIII L	Ilcara	0	Duist		Small	23-May, 10:19-
About 500m NE	2 21-m ECE	II.	7	Descent			
of Kamianka	2-3km ESE	Heard	7	Burst		arms	10:20
(government-			2	D		Small	23-May, 10:25-
controlled, 20km	2-3km E	Heard	3	Burst		arms	10:26
N of Donetsk)	2-3km E	Heard	1	Explosion	Undetermined	N/K	23-May, 10:29
	2-3km ESE	Heard	1	Explosion	Undetermined	N/K	23-May, 10:29
	2-3km E	Heard	1	Explosion	Undetermined	N/K	23-May, 10:50
	3-4km S	Heard	1	Explosion	Undetermined	N/K	23-May, 11:28
							23-May, 13:55-
	5-6km NE	Heard	53	Explosion	Undetermined	N/K	14:12
		1					23-May, 14:17-
	5-6km NE	Heard	48	Explosion	Undetermined	N/K	14:24
	2 0.001112		10	2.1.1.1001011	Chaeternined	, IL	23-May, 14:30-
	5-6km NE	Heard	58	Explosion	Undetermined	N/K	14:44
SMM camera in	2-4km SW	Recorded			Undetermined	N/K N/K	22-May, 22:39
Sivilyi Calificia III			1	Explosion Explosion	Undetermined	N/K N/K	22-May, 22:39 22-May, 23:21
Vriakivira				HVDIOCION	L Indetermined	INF/K	1/1-11/1937 14:71
Kriakivka (govornment	2-4km S	Recorded	1	Explosion	Undetermined	11/1	22-1v1ay, 25.21
Kriakivka (government- controlled, 38km	2-4km S	Recorded	1	Explosion	Undetermined	N/K	22-May, 23:59

NW of Luhansk)							
,					WSW to ENE		
					(assessed as outside the		
				Illumination	disengagement		
	1-1.3km SSE	Recorded	2	flare	area)	N/K	22-May, 22:37
					SSW to NNE		
					(assessed as		
					outside the disengagement		
	1-2km E	Recorded	1	Projectile	area)	N/K	22-May, 22:43
				5	WSW to ENE		
					(assessed as		
					outside the disengagement		
	1-2km ESE	Recorded	8	Projectile	area)	N/K	22-May, 22:52
					SSW to NNE		
					(assessed as		
					outside the		
	1-2km E	Recorded	1	Projectile	disengagement area)	N/K	22-May, 22:54
		liceoraea		rojeeme	WSW to ENE	1011	22 May, 22.0 1
					(assessed as		
					outside the		
	1-2km ESE	Recorded	1	Projectile	disengagement area)	N/K	22-May, 23:00
	1-2KIII EGE	Recorded	1	Tiojeetiie	WSW to ENE	11/1	22-Widy, 25.00
					(unable to		
					assess whether		
					inside or		
SMM camera in					outside the disengagement		
Zolote	1-2km SE	Recorded	2	Projectile	area)	N/K	22-May, 23:08
(government-				5	WSW to ENE		
controlled, 60km					(assessed as		
W of Luhansk)					outside the disengagement		
	1-1.5km SE	Recorded	1	Projectile	area)	N/K	22-May, 23:22
				5	SSW to NNE		
					(assessed as		
					outside the disengagement		
	1-1.5km E	Recorded	3	Projectile	area)	N/K	22-May, 23:28
					SSW to NNE		
					(assessed as		
					outside the disengagement		
	1-2km ESE	Recorded	1	Projectile	area)	N/K	22-May, 23:31
		10001404	-	Tejeenie	SSW to NNE	1011	22 may, 20.01
					(assessed as		
					outside the		
	1-2km ESE	Recorded	18	Projectile	disengagement area)	N/K	22-May, 23:37
			10	rojeenie	WSW to ENE	- 1/ 12	,,
					(assessed as		
					outside the		
	1-1.5km SE	Recorded	1	Projectile	disengagement area)	N/K	22-May, 23:41
	i i.5km 9E	iceoiucu	1	Tojeenie	SW to NE	11/11	22 may, 23.71
					(assessed as		
					inside the		
	2 21m SE	Deserted	1	Illumination	disengagement	N/V	22 May 00.02
	2-3km SE	Recorded	1	flare	area) S to N	N/K	23-May, 00:02
					(assessed as		
	1-2km ESE	Recorded	9	Projectile	outside the	N/K	23-May, 00:05

1	I	1	1	I	L r.	I	1
					disengagement		
					area) NW to SE		
					(assessed as		
					inside the		
					disengagement		
	2-3km S	Recorded	8	Projectile	area)	N/K	23-May, 00:37
						/	22-May, 19:10-
	8-10km SE	Heard	10	Explosion	Undetermined	N/K	19:23
							22-May, 21:12-
	8-10km SE	Heard	9	Explosion	Undetermined	N/K	21:33
							22-May, 22:23-
	8-10km SE	Heard	2	Explosion	Undetermined	N/K	22:24
	6-8km SE	Heard	1	Explosion	Undetermined	N/K	22-May, 22:25
							22-May, 23:22-
N edge of Popasna	6-8km SE	Heard	4	Explosion	Undetermined	N/K	23:27
(government-				•			22-May, 23:36-
controlled, 69 km	8-10km SE	Heard	22	Explosion	Undetermined	N/K	00:09
W of Luhansk)	6-8km SE	Heard	10	Burst		HMG	22-May, 23:38
	5-7km SE	Heard	12	Shot		N/K	22-May, 23:50
	6-8km SE	Heard	10	Shot		N/K	23-May, 00:05
	6-8km SE	Heard	10	Explosion	Undetermined	N/K	23-May, 00:05
	0-0KIII SL	Incard	1	Explosion	Ondetermined	11/1	23-May, 00:12 23-May, 00:18-
	9 101mm SE	Heard	2	Euplasian	Undetermined	N/K	00:20
	8-10km SE	Heard	2	Explosion	Undetermined	IN/K	23-May, 00:57-
	9 101-m SE	TTaand	8	Emplosien	The determined	N/K	23-May, 00.37- 01:03
	8-10km SE	Heard	8	Explosion	Undetermined	IN/K	01:05
					Assessed as		
7.1.					outside the		
Zolote			2	D	disengagement	III (G	
(government-	2-2.5km E	Heard	3	Burst	area	HMG	23-May, 11:31
controlled, 60km					Assessed as		
W of Luhansk)					outside the	~	
				~	disengagement	Small	
	2-2.5km E	Heard	20	Shot	area	arms	23-May, 11:31
					Undetermined		
					(assessed as		
Berezivske (non-					outside the		
government-					Zolote		
controlled, 53km					disengagement		23-May, 12:13-
NW of Luhansk)	5-8km NW	Heard	6	Explosion	area)	N/K	12:18
					Outgoing		
NW edge of					(assessed as		
Pervomaisk (non-					outside the		
government-					Zolote		
controlled, 58km					disengagement	Mortar	
W of Luhansk)	1.5-2km NW	Heard	1	Explosion	area)	(type n/k)	23-May, 14:36



Map of Donetsk and Luhansk regions²

² 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).