	Event						
SMM position	location	Means	No.	Observation	Description	Weapon	Date, time
SMM camera	4-5km ESE	Recorded	1	Projectile	ESE to WNW	N/K	16-Feb, 17:52
in Avdiivka							
(government-							
controlled, 17km N of							
Donetsk)	2-4km ESE	Recorded	1	Projectile	W to E	N/K	16-Feb, 18:18
	2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	15-Feb, 19:08
	3-5km SSE	Recorded	1	Projectile	ENE to WSW	N/K	15-Feb, 19:13
	3-5km SSE	Recorded	7	Projectile	ENE to WSW	N/K	15-Feb, 19:14
	3-5km SSE	Recorded	1	Projectile	ENE to WSW	N/K	15-Feb, 19:16
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	15-Feb, 19:16
	2-4km SE	Recorded	1	Projectile	ENE to WSW	N/K	15-Feb, 19:29
	2-4km SSE	Recorded	76	Projectile	ENE to WSW	N/K	15-Feb, 19:30
	2-4km SSE	Recorded	7	Projectile	ENE to WSW	N/K	15-Feb, 19:31
	2-4km SE	Recorded	1	Explosion	Undetermined	N/K	15-Feb, 19:31
	2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	15-Feb, 19:31
	2-4km SSE	Recorded	24	Projectile	ENE to WSW	N/K	15-Feb, 19:33
	2-4km SSE	Recorded	29	Projectile	ENE to WSW	N/K	15-Feb, 19:33
	2-4km SSE	Recorded	31	Projectile	ENE to WSW	N/K	15-Feb, 19:34
	2-4km SSE	Recorded	37	Projectile	N to S	N/K	15-Feb, 19:35
	2-4km SSE	Recorded	5	Projectile	ENE to WSW	N/K	15-Feb, 19:36
	2-4km SSE	Recorded	1	Projectile	NW to SE	N/K	15-Feb, 19:36
	2-4km SSE	Recorded	16	Projectile	ENE to WSW	N/K	15-Feb, 19:37
	2-4km SSE	Recorded	16	Projectile	ENE to WSW	N/K	15-Feb, 19:40
SMM camera	2-4km SSE	Recorded	2	Projectile	ENE to WSW	N/K	15-Feb, 19:42
in Chermalyk	2-4km SSE	Recorded	3	Projectile	ENE to WSW	N/K	15-Feb, 19:43
(government- controlled,	2-4km SSE	Recorded	6	Projectile	ENE to WSW	N/K	15-Feb, 19:44
31km NE of	2-4km SSE	Recorded	12	Projectile	ENE to WSW	N/K	15-Feb, 19:45
Mariupol)	2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	15-Feb, 19:46
1	2-4km SSE	Recorded	2	Projectile	ENE to WSW	N/K	15-Feb, 19:46
	2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	15-Feb, 19:47
	2-4km SSE	Recorded	5	Projectile	WSW to ENE	N/K	15-Feb, 19:49
	2-4km SSE	Recorded	4	Projectile	ENE to WSW	N/K	15-Feb, 19:53
	2-4km SSE	Recorded	4	Projectile	ENE to WSW	N/K	15-Feb, 19:59
	1-2km SE	Recorded	2	Projectile	ENE to WSW	N/K	15-Feb, 19:59
	1-2km SE	Recorded	3	Projectile	ENE to WSW	N/K	15-Feb, 20:00
	1-2km SE	Recorded	3	Projectile	ENE to WSW	N/K	15-Feb, 20:01
	1-2km SE	Recorded	2	Projectile	ENE to WSW	N/K	15-Feb, 20:02
	1-2km SE	Recorded	1	Projectile	ENE to WSW	N/K	15-Feb, 20:03
	1-2km SE	Recorded	3	Projectile	ENE to WSW	N/K	15-Feb, 20:04
	1-2km SE	Recorded	2	Projectile	ENE to WSW	N/K	15-Feb, 20:05
	2-4km SSE	Recorded	11	Projectile	ENE to WSW	N/K	15-Feb, 20:06
	1-2km SE	Recorded	1	Projectile	ESE to WNW	N/K	15-Feb, 20:06
	2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	15-Feb, 20:08
	2-4km SSE	Recorded	2	Explosion	Undetermined	N/K	15-Feb, 20:09
	2-4km SSE	Recorded	2	Projectile	ENE to WSW	N/K	15-Feb, 20:15
	2-4km SSE	Recorded	1	Explosion	Airburst	N/K	15-Feb, 20:15

Table of ceasefire violations as of 17 February 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.

2-4km SE	Recorded	1	Explosion	Outgoing	N/K	15-Feb, 20:1
1-2km SE	Recorded	1	Projectile	ENE to WSW	N/K	15-Feb, 20:2
2-4km SSE	Recorded	2	Projectile	ENE to WSW	N/K	15-Feb, 20:4
2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	15-Feb, 20:4
2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	15-Feb, 20:5
0.8-2km						
SSE	Recorded	1	Projectile	W to E	N/K	15-Feb, 21:0
2-3km SSE	Recorded	2	Projectile	WSW to ENE	N/K	15-Feb, 21:0
2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	15-Feb, 21:0
2-3km SSE	Recorded	3	Projectile	WSW to ENE	N/K	15-Feb, 21:0
2-4km SSE	Recorded	6	Projectile	W to E	N/K	15-Feb, 21:1
3-4km SSE	Recorded	3	Projectile	ESE to WNW	N/K	15-Feb, 21:3
2-3km SSE	Recorded	9	Projectile	WSW to ENE	N/K	15-Feb, 22:0
2-4km SSE	Recorded	4	Projectile	ESE to WNW	N/K	15-Feb, 22:1
2-4km SSE	Recorded	4	Projectile	ESE to WNW	N/K	15-Feb, 22:1
2-4km SSE	Recorded	4	Projectile	ESE to WNW	N/K	15-Feb, 22:1
2km SSE	Recorded	17	Projectile	WSW to ENE	N/K	15-Feb, 22:1
2-4km SSE	Recorded	1	Projectile	ESE to WNW	N/K	15-Feb, 22:2
2-4km SSE	Recorded	2	Projectile	ESE to WNW	N/K	15-Feb, 22:3
3-4km SSE	Recorded	3	Projectile	ESE to WNW	N/K	15-Feb, 22:3
3-4km SSE	Recorded	2	Projectile	ESE to WNW	N/K	15-Feb, 22:3
3-4km SSE	Recorded	1	Projectile	ESE to WNW	N/K	15-Feb, 22:3
3-4km SSE	Recorded	2	Projectile	ESE to WNW	N/K	15-Feb, 22:4
3-4km SSE	Recorded	4	Projectile	ESE to WNW	N/K	15-Feb, 22:4
3-4km SSE	Recorded	1	Projectile	ESE to WNW	N/K	15-Feb, 22:5
2-4km SSE	Recorded	9	Projectile	ENE to WSW	N/K	15-Feb, 22:5
2-3km SSE	Recorded	5	Projectile	WSW to ENE	N/K	15-Feb, 22:5
2-4km SSE	Recorded	9	Projectile	ENE to WSW	N/K	15-Feb, 22:5
3-4km SSE	Recorded	4	Projectile	ESE to WNW	N/K	15-Feb, 23:0
2-3km SSE	Recorded	2	Projectile	WSW to ENE	N/K	15-Feb, 23:0
3-4km SSE	Recorded	4	Projectile	ESE to WNW	N/K	15-Feb, 23:0
3-4km SSE	Recorded	4	Projectile	ESE to WNW	N/K	15-Feb, 23:0
2-4km ESE	Recorded	1	Explosion	Undetermined	N/K	15-Feb, 23:0
3-4km SSE	Recorded	6	Projectile	ESE to WNW	N/K	15-Feb, 23:0
3-4km SSE	Recorded	1	Projectile	ESE to WNW	N/K	15-Feb, 23:1
3-4km SSE	Recorded	5	Projectile	ESE to WNW	N/K	15-Feb, 23:1
1-2km SE	Recorded	5	Projectile	ENE to WSW	N/K	15-Feb, 23:2
1-2km SE	Recorded	2	Projectile	ENE to WSW	N/K	15-Feb, 23:2
1-2km SSE	Recorded	4	Projectile	ESE to WNW	N/K	15-Feb, 23:2
0.8-2km	Recorded		riojectite		1 1/ 12	15 1 00, 23.2
SSE	Recorded	18	Projectile	WSW to ENE	N/K	15-Feb, 23:2
2-4km SSE	Recorded	2	Projectile	ESE to WNW	N/K	15-Feb, 23:2
2-4km SSE	Recorded	2	Projectile	E to W	N/K	15-Feb, 23:3
2-4km SSE	Recorded	2	Projectile	E to W	N/K	15-Feb, 23:4
2-4km SE	Recorded	2	Projectile	ESE to WNW	N/K	15-Feb, 23:4
2-4km SE	Recorded	1	Projectile	In vertical flight	N/K	15-Feb, 23:4
2-4km SSE	Recorded	2	Projectile	ENE to WSW	N/K	16-Feb, 01:3
1-2km SE	Recorded	1	Explosion	Undetermined	N/K	16-Feb, 03:1
2-4km SE	Recorded	1	Projectile	ENE to WSW	N/K	16-Feb, 03:1
2-4km SE	Recorded	1	Projectile	ENE to WSW	N/K	16-Feb, 03:1
- m			Illumination			,
2-4km SSE	Recorded	1	flare	In vertical flight	N/K	16-Feb, 04:5
			Illumination			
2-3km SSE	Recorded	1	flare	In vertical flight	N/K	16-Feb, 05:3
3-4km SSE	Recorded	1	Projectile	W to E	N/K	16-Feb, 16:5
3-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	16-Feb, 17:0
3-4km SE	Recorded	1	Projectile	E to W	N/K	16-Feb, 17:2
3-4km SSE	Recorded	3	Projectile	NE to SW	N/K	16-Feb, 18:0
3-4km SSE	Recorded	1	Projectile	NE to SW	N/K	16-Feb, 18:0

	1	1		I	1	1	1
	3-4km SSE	Recorded	2	Projectile	NE to SW	N/K	16-Feb, 18:08
	3-4km SSE	Recorded	4	Projectile	NE to SW	N/K	16-Feb, 18:09
	3-4km SSE	Recorded	12	Projectile	NE to SW	N/K	16-Feb, 18:10
	3-4km SSE	Recorded	4	Projectile	NE to SW	N/K	16-Feb, 18:11
	3-4km SSE	Recorded	1	Projectile	WSW to ENE	N/K	16-Feb, 18:19
	3-4km SSE	Recorded	2	Projectile	WSW to ENE	N/K	16-Feb, 18:20
	3-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	16-Feb, 18:20
	3-4km SSE	Recorded	3	Projectile	ENE to WSW	N/K	16-Feb, 18:21
	3-4km SSE	Recorded	2	Explosion	Undetermined	N/K	16-Feb, 18:22
	3-4km SSE	Recorded	9	Projectile	WSW to ENE	N/K	16-Feb, 18:22
	400-800m S	Recorded	3	Projectile	ESE to WNW	N/K	15-Feb, 18:52
	400-800m S	Recorded	19	Projectile	ESE to WNW	N/K	15-Feb, 18:53
	400-800m S	Recorded	4	Projectile	ESE to WNW	N/K	15-Feb, 18:55
	400-800m S	Recorded	2	Projectile	ESE to WNW	N/K	15-Feb, 18:59
	400-800m S	Recorded	1	Explosion	Undetermined	N/K	15-Feb, 19:05
	400-800m S	Recorded	9	Projectile	ESE to WNW	N/K	15-Feb, 19:06
	400-800m S	Recorded	3	Projectile	ESE to WNW	N/K	15-Feb, 19:07
	400-800m S	Recorded	4	Projectile	WNW to ESE	N/K	15-Feb, 19:09
	1-2km SSW	Recorded	1	Explosion	Undetermined	N/K	15-Feb, 23:36
	1-2km S	Recorded	2	Projectile	E to W	N/K	16-Feb, 00:46
	1-2km S	Recorded	4	Projectile	E to W	N/K	16-Feb, 00:48
	1-2km S	Recorded	2	Projectile	E to W	N/K	16-Feb, 00:49
				Illumination			
	1-2km SSW	Recorded	1	flare	In vertical flight	N/K	16-Feb, 03:50
SMM camera	1 Olana COM	Deserved	1	Illumination	Ter	NI/IZ	16 E-h 04.02
at Donetsk	1-2km SSW	Recorded	1	flare Illumination	In vertical flight	N/K	16-Feb, 04:02
Filtration	20-50m S	Recorded	1	flare	In vertical flight	N/K	16-Feb, 04:11
Station (15km	2-4km SSW	Recorded	2	Explosion	Undetermined	N/K	16-Feb, 04:16
N of Donetsk)	2-4km S	Recorded	1	Explosion	Undetermined	N/K	16-Feb, 04:52
	2-4KIII 5	Recorded	1	Illumination	Ondetermined	IV K	10-100, 04.52
	2-4km SSW	Recorded	1	flare	In vertical flight	N/K	16-Feb, 05:03
	1-2km SSE	Recorded	1	Projectile	E to W	N/K	16-Feb, 17:10
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	16-Feb, 17:10
	0.5-1km S	Recorded	3	Projectile	SE to NW	N/K	16-Feb, 17:15
	1-2km SW	Recorded	1	Projectile	NW to SE	N/K	16-Feb, 17:55
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	16-Feb, 17:56
	2-4km SSW	Recorded	3	Explosion	Undetermined	N/K	16-Feb, 18:05
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	16-Feb, 18:06
	0.5-1km S	Recorded	1	Muzzle flash		N/K	16-Feb, 18:27
	0.5-1km S	Recorded	1	Projectile	E to W	N/K	16-Feb, 18:27
	0.5-1km S	Recorded	1	Projectile	E to W	N/K	16-Feb, 18:30
	0.5-1km						
	SSW	Recorded	3	Projectile	W to E	N/K	16-Feb, 18:30
	3-4km ESE	Recorded	1	Projectile	S to N	N/K	15-Feb, 18:38
	3-4km ESE	Recorded	1	Projectile	S to N	N/K	15-Feb, 19:17
	2-4km E	Recorded	12	Projectile	S to N	N/K	15-Feb, 21:31
SMM camera	2-4km E	Recorded	8	Projectile	S to N	N/K	15-Feb, 22:32
1.5km NE of	2-4km E	Recorded	2	Projectile	S to N	N/K	15-Feb, 22:34
Hnutove	2-4km E	Recorded	2	Projectile	N to S	N/K	15-Feb, 22:37
(government-	2-4km E	Recorded	4	Projectile	S to N	N/K	15-Feb, 22:38
controlled,	2-4km E	Recorded	1	Projectile	S to N	N/K	15-Feb, 22:42
20km NE of Mariupol)	2-4km E	Recorded	2	Projectile	S to N	N/K	16-Feb, 05:28
manupol)				Illumination			
	2-4km E	Recorded	1	flare	In vertical flight	N/K	16-Feb, 05:34
	2-4KIII L			Illumination		1	
	2-4km E	Recorded	1	flare	In vertical flight	N/K	16-Feb, 05:39
SMM camera	2-4km E 3-4km E	Recorded	1	flare Explosion	Undetermined	N/K	15-Feb, 18:43
SMM camera at entry-exit checkpoint in	2-4km E			flare			

Maiorsk	1-2km E	Recorded	1	Explosion	Undetermined	N/K	15-Feb, 18:45
(government-	1-2km E	Recorded	2	Explosion	Undetermined	N/K	15-Feb, 18:51
controlled,	0.6-1km E	Recorded	1	Explosion	Impact	N/K	15-Feb, 20:13
45km NE of Donetsk)	1-2km E	Recorded	1	Explosion	Undetermined	N/K	15-Feb, 21:04
Donetsky	2-4km S	Recorded	1	Projectile	E to W	N/K	15-Feb, 20:28
	2-4km SSE	Recorded	2	Projectile	E to W	N/K	15-Feb, 21:49
	2-4km S	Recorded	7	-	W to E	N/K	
				Projectile			15-Feb, 21:50
	2-4km SSE	Recorded	4	Projectile	W to E	N/K	15-Feb, 22:31
SMM camera	2-4km SSE	Recorded	5	Projectile	W to E	N/K	15-Feb, 22:32
at entry-exit	2-4km SSE	Recorded	4	Projectile	E to W	N/K	15-Feb, 22:33
checkpoint in	2-4km SSE	Recorded	3	Projectile	W to E	N/K	15-Feb, 22:33
Pyshchevyk	2-4km SSE	Recorded	1	Projectile	W to E	N/K	15-Feb, 22:34
(government-	2-4km SSE	Recorded	1	Projectile	W to E	N/K	15-Feb, 22:35
controlled,	2-4km SSE	Recorded	1	Projectile	W to E	N/K	15-Feb, 22:36
25km NE of	2-4km SSE	Recorded	2	Projectile	E to W	N/K	15-Feb, 22:37
Mariupol)	2-4km SSE	Recorded	1	Projectile	E to W	N/K	15-Feb, 22:38
				Illumination			
	2-3km SSE	Recorded	1	flare	In vertical flight	N/K	16-Feb, 05:39
	1-2km S	Recorded	10	Projectile	E to W	N/K	16-Feb, 18:00
	1-2km S	Recorded	5	Projectile	E to W	N/K	16-Feb, 18:01
	2-3km S	Recorded	2	Explosion	Impact	N/K	16-Feb, 18:22
	2-4km NNE	Recorded	1	Projectile	WNW to ESE	N/K	16-Feb, 17:54
SMM camera	2-4km NNE	Recorded	1	Projectile	WNW to ESE	N/K	16-Feb, 17:59
1km SW of	2-4km NNE	Recorded	2	Projectile	WNW to ESE	N/K	16-Feb, 18:06
Shyrokyne	2-4km NNE	Recorded	2	Projectile	WNW to ESE	N/K	16-Feb, 18:11
(government-	2-4km NNE	Recorded	1	Projectile	WNW to ESE	N/K	16-Feb, 18:12
controlled,	2-4km NNE	Recorded	1	Projectile	WNW to ESE	N/K	16-Feb, 18:13
20km E of	2-4km NNE	Recorded	4	Projectile	WNW to ESE	N/K	16-Feb, 18:19
Mariupol)	2-4km NNE	Recorded	1	Projectile	WNW to ESE	N/K	16-Feb, 18:20
	2-4km NNE	Recorded	1	Projectile	WNW to ESE	N/K	16-Feb, 18:25
Donetsk central railway station (non- government- controlled, 6km NW of Donetsk)	2-3km NW	Heard	1	Explosion	Undetermined	N/K	16-Feb, 08:56
About 1.5km NW of Yasynuvata (non- government- controlled, 16km NE of Donetsk)	2-3km NW	Heard	1	Burst		Small arms	16-Feb, 08:57
About 2km W	2-3KIII IN W	Tieatu	1	Buist		Small	10-100, 08.57
of Yasynuvata	2-3km SW	Heard	2	Burst		arms	16-Feb, 10:57
(non- government- controlled, 16km NE of Donetsk)	2-3km SW	Heard	2	Explosion	Undetermined	N/K	16-Feb, 10:57
,				Lipioni			16-Feb, 11:25-
The railway	3-4km SW	Heard	20	Shot	Undetermined	N/K	11:30
station in						Small	16-Feb, 11:25-
Yasynuvata	3-4km SW	Heard	2	Burst		arms	11:30
(non-	2-3km W	Heard	1	Burst		HMG	16-Feb, 11:35
government-					ľ	Small	
controlled, 16km NE of	2-3km SW	Heard	35	Shot		arms	16-Feb, 11:35
Donetsk)	2-3km SSW	Heard	1	Explosion	Undetermined	N/K	16-Feb, 13:15
Donctox)	2-3km SSW	Heard	1	Explosion	Undetermined	N/K	16-Feb, 13:22

2-3km SSW Heard 4 Explosion Undetermined N/K 16-76b, 13:31 2-3km SSW Heard 1 Explosion Undetermined N/K 16-76b, 13:45 NNW of NNW of government- commolel, 25 3.5km N Heard 20 Explosion Undetermined N/K 16-76b, 10:42- 16-76b, 10:42- 10:46 manuppil 3.5km N Heard 20 Explosion Undetermined N/K 10:46 more of manuppil 3.5km N Heard 4 Shot Artillery (type 10:46 Mariuppil 3.5km N Heard 5 Explosion Undetermined N/K 19:20 6.8km - - - - - - 90km NE of 5.7km NW Heard 10 Explosion Undetermined N/K 15-7eb, 19:40 90km NE of 5.7km NW Heard 3 Burst - - - - - - - - - - - - -		2-3km SSW	Heard	2	Explosion	Undetermined	N/K	16-Feb, 13:27
2-3km SSW Heard 2 Explosion Undetermined N/K 16-Feh, 10:325 NNW of PSykheryk, (government- controlled, 25 3-Skm N Heard 20 Explosion Undetermined N/K 10-46 controlled, 25 3-Skm N Heard 20 Explosion Undetermined N/K 10-46 controlled, 25 - - - Small 16-Feb, 10:42. Mariupol) 3-Skm N Heard 4 Shot - - Softm K - - - - - - - Mariupol) 3-Skm N Heard 5 Explosion Undetermined N/K 19-26 NNW Heard 10 Explosion Undetermined N/K 19-56 NNW Heard 10 Explosion Undetermined N/K 12-56 Softm NW Heard 3 Barst - - 10-56 Dunctsk) 5-7km NW Heard 3					•			
About Iram NNW of Pyshchevyk (govermment- controlled, 25 Mariupol) NK NE Heard 1 Explosion Undetermined NK 16-Feb, 10:05 10-Feb, 10:05 Mark of Marupol) 3.5km N Heard 20 Explosion Undetermined N/K 10-46 Marupol) 3.5km N Heard 4 Shot Small 16-Feb, 10:42- Marupol 3.5km N Heard 4 Shot Arrillery (r) 6.8km 6.8km 6.8km (r) Arrillery (r) 15-Feb, 19:10- NNW Heard 10 Explosion Undetermined NK) 19-20 systemment- controlled, 39km NE: of 6-8km 6 Arrillery (r) 15-Feb, 19:10- Systemment- controlled, 39km NE: of 5-7km NW Heard 2 Explosion Undetermined N/K 21:05 Systemment- controlled, 39km NE: of 5-7km W Heard 3 Burst Artillery (r) 15-Feb, 21:10 5-7km W Heard 3 Explosion <t< td=""><td></td><td></td><td></td><td></td><td>·</td><td></td><td></td><td></td></t<>					·			
NNW of government- controlled.25 Iser of askm N Heard 20 Explosion Undetermined N/K 16-Feb. 16-42- 16-Feb. 10-42- ment- controlled.25 Mariupol) 3-5km N Heard 4 Shot Small 16-Feb. 10-42- ment- array Mariupol) 3-5km N Heard 4 Shot Artillery (type 15-Feb. 19-10. NNW Heard 5 Explosion Undetermined N/K 19-20 5-7km N Heard 3 Burst Undetermined N/K 19-20 5-7km N Heard 10 Explosion Undetermined N/K 19-20 6-8km government- controlled, N/W Heard 10 Explosion Undetermined N/K 19-20 5-7km N Heard 10 Explosion Undetermined N/K 12-56 10-6-6-10 3/Skm NE of 5 Fram W Heard 10 Explosion Undetermined N/K 21-05 5-7km W Heard 8 Explosion Und					•			
Pyshkevyk (governameti- controlled, 25 km NF of Mariupol) 3-5km N Heard 20 Explosion Undetermined N/K 10:46 Mariupol 3-5km N Heard 4 Shot Small 16-Feb, 10:42- arms 10:46 Mariupol 3-5km N Heard 4 Shot Artillery (type 15-Feb, 19:10 NWW Heard 5 Explosion Undetermined NK 19:20 5-7km NW Heard 3 Burst Undetermined NKN 19:20 6-8km - - - Artillery (type 15-Feb, 19:10 0.5km - - - - Artillery (type 15-Feb, 21:01- 5.7km Heard 5 Explosion Undetermined NK 21:05 5.7km W Heard 3 Burst - Artillery (type 15-Feb, 21:01- 5.7km W Heard 3 Burst - - 15-Feb, 21:01- 7.8km Stratillery -		N/K NE	Heard	1	Explosion	Undetermined	N/K	
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Svitlodarsk (government- controlled,Heard4ExplosionUndeterminedN/K15-Feb, 19:50Svitlodarsk (government- controlled,Heard6ExplosionUndeterminedN/K15-Feb, 20:004-6km SWHeard2ExplosionUndeterminedN/K15-Feb, 20:024-6km SWHeard2ExplosionUndeterminedN/K15-Feb, 20:024-6km SWHeard6ExplosionUndeterminedN/K15-Feb, 20:07-20004-6km SWHeard6ExplosionUndeterminedN/K15-Feb, 20:07-4-6km SWHeard3ExplosionUndeterminedN/K15-Feb, 20:07-4-6km SWHeard3ExplosionUndeterminedN/K15-Feb, 20:174-6km SWHeard3ExplosionUndeterminedN/K15-Feb, 21:24-21:254-6km SWHeard3ExplosionUndeterminedN/K15-Feb, 23:43-3-5km SEHeard4BurstHMG15-Feb, 23:43-23:483-5km SEHeard2ExplosionUndeterminedN/K15-Feb, 23:516-8km NEHeard2ExplosionUndeterminedN/K15-Feb, 23:516-8km SWHeard12ExplosionUndeterminedN/K16-Feb, 16:30-16-Feb, 16:30-116-Feb, 16:30-116-Feb, 16:30-116-Feb, 16:30-116-Feb, 17:35-17:40SMM camera in Zolote (government- controlled,2-4km SE					•			
WSWHeard4ExplosionUndeterminedN/K15-Feb, 19:504-6km SWHeard4ExplosionUndeterminedN/K15-Feb, 20:004-6km SWHeard2ExplosionUndeterminedN/K15-Feb, 20:026-6km SWHeard2ExplosionUndeterminedN/K15-Feb, 20:025/tiddarsk4-6km SWHeard6ExplosionUndeterminedN/K15-Feb, 20:07-20004-6km SWHeard6ExplosionUndeterminedN/K15-Feb, 20:07-5/tm NE of Donetsk)4-6km SWHeard3ExplosionUndeterminedN/K15-Feb, 20:174-6km SEHeard4BurstHMG21:2512:54-6km SEHeard3ExplosionUndeterminedN/K15-Feb, 23:42-3-5km SEHeard3BurstHMG15-Feb, 23:5115-Feb, 23:43-3-5km SEHeard4BurstHMG23:4823:483-5km SEHeard2ExplosionUndeterminedN/K15-Feb, 23:516-8km NEHeard2ExplosionUndeterminedN/K15-Feb, 21:30-6-8km SWHeard12ExplosionUndeterminedN/K15-Feb, 21:30-6-8km SWHeard12ExplosionUndeterminedN/K15-Feb, 21:30-6-8km SWHeard12ExplosionUndeterminedN/K15-Feb, 16:30-6-8km SWHeard12<			Iteatu	5	Explosion	Ondetermined	11/1	15-100, 17.40
4-6km SWHeard6ExplosionUndeterminedN/K15-Feb, 20:00Svitlodarsk (government- controlled, 57km NE of Donetsk)Heard2ExplosionUndeterminedN/K15-Feb, 20:07-4-6km SWHeard6ExplosionUndeterminedN/K15-Feb, 20:07-20:094-6km SWHeard3ExplosionUndeterminedN/K15-Feb, 20:1757km NE of Donetsk)4-6km SEHeard3ExplosionUndeterminedN/K15-Feb, 21:24-4-6km SEHeard3ExplosionUndeterminedN/K15-Feb, 22:244-6km SEHeard3ExplosionUndeterminedN/K15-Feb, 23:103-5km SEHeard3BurstHMG15-Feb, 23:313-5km SEHeard2ExplosionUndeterminedN/K15-Feb, 23:516-8km NEHeard23ExplosionUndeterminedN/K15-Feb, 12:03-6-8km SWHeard5ExplosionUndeterminedN/K16-Feb, 16:30-4-6km SWHeard5ExplosionUndeterminedN/K16-Feb, 17:35-4-6km SWHeard12ExplosionUndeterminedN/K16-Feb, 17:35-4-6km SWHeard12ExplosionUndeterminedN/K16-Feb, 17:35-4-6km SWHeard12ExplosionUndeterminedN/K17:40SMM camera in Zolote (government- controlled,			Heard	4	Explosion	Undetermined	N/K	15-Feb, 19:50
Svitlodarsk (government- controlled, 57km NE of Donetsk)Heard2ExplosionUndeterminedN/K15-Feb, 20:024-6km SWHeard6ExplosionUndeterminedN/K15-Feb, 20:07- 20:0957km NE of Donetsk)4-6km SEHeard3ExplosionUndeterminedN/K15-Feb, 20:174-6km SEHeard4BurstHMG21:25-4-6km SEHeard3ExplosionUndeterminedN/K15-Feb, 22:244-6km SEHeard3BurstHMG15-Feb, 23:10-3-5km SEHeard4Burst15-Feb, 23:43-3-5km SEHeard2ExplosionUndeterminedN/K15-Feb, 23:516-8km NEHeard2ExplosionUndeterminedN/K15-Feb, 23:516-8km NEHeard23ExplosionUndeterminedN/K15-Feb, 12:03-6-8km SWHeard5ExplosionUndeterminedN/K16-Feb, 12:03-12:1716-Feb, 16:30-16-Feb, 16:30-16-Feb, 16:30-16-Feb, 17:35-4-6km SWHeard12ExplosionUndeterminedN/K17:40SMM camera in Zolote (government- controlled,2-4km SERecorded6Projectilearea)N/K15-Feb, 21:39		4-6km SW	Heard	4	Explosion	Undetermined	N/K	15-Feb, 19:54
Svitlodarsk (government- controlled, 57km NE of Donetsk)4-6km SWHeard6ExplosionUndeterminedN/K15-Feb, 20:07- 20:094-6km SWHeard3ExplosionUndeterminedN/K15-Feb, 20:174-6km SEHeard4BurstHMG21:254-6km SWHeard3ExplosionUndeterminedN/K15-Feb, 22:244-6km SEHeard3BurstHMG15-Feb, 23:103-5km SEHeard4Burst15-Feb, 23:43-3-5km SEHeard2ExplosionUndeterminedN/K15-Feb, 23:516-8km NEHeard2ExplosionUndeterminedN/K15-Feb, 23:516-8km NEHeard23ExplosionUndeterminedN/K16-Feb, 12:03-4-6km SWHeard5ExplosionUndeterminedN/K16-Feb, 12:03-12:174-6km SWHeard12ExplosionUndeterminedN/K16-Feb, 17:35-4-6km SWHeard12ExplosionUndeterminedN/K16-Feb, 17:35-17:40NE to SW (assessed as inside the disengagement area)N/K15-Feb, 21:39		4-6km SW	Heard	6	Explosion	Undetermined	N/K	15-Feb, 20:00
(government- controlled, 57km NE of Donetsk)4-6km SWHeard6ExplosionUndeterminedN/K20:094-6km SEHeard3ExplosionUndeterminedN/K15-Feb, 20:174-6km SEHeard4BurstHMG21:254-6km SEHeard3ExplosionUndeterminedN/K15-Feb, 22:244-6km SEHeard3BurstHMG15-Feb, 23:104-6km SEHeard3BurstHMG15-Feb, 23:43-3-5km SEHeard4BurstHMG23:483-5km SEHeard2ExplosionUndeterminedN/K15-Feb, 23:516-8km NEHeard23ExplosionUndeterminedN/K15-Feb, 23:516-8km NEHeard5ExplosionUndeterminedN/K16-Feb, 16:30-4-6km SWHeard5ExplosionUndeterminedN/K16:Feb, 17:35-4-6km SWHeard12ExplosionUndeterminedN/K16:Feb, 17:35-4-6km SWHeard12ExplosionUndeterminedN/K17:40SMM camera in Zolote (government- controlled,2-4km SERecorded6Projectilearea)N/K15-Feb, 21:39		4-6km SW	Heard	2	Explosion	Undetermined	N/K	
controlled, 57km NE of Donetsk)4-6km SWHeard3ExplosionUndeterminedN/K15-Feb, 20:174-6km SEHeard4BurstHMG15-Feb, 21:24- 21:254-6km SEHeard3ExplosionUndeterminedN/K15-Feb, 22:244-6km SEHeard3BurstHMG15-Feb, 23:103-5km SEHeard3BurstHMG15-Feb, 23:43- 15-Feb, 23:43-3-5km SEHeard2ExplosionUndeterminedN/K15-Feb, 23:513-5km SWHeard2ExplosionUndeterminedN/K15-Feb, 23:516-8km NEHeard23ExplosionUndeterminedN/K12:176-8km NEHeard5ExplosionUndeterminedN/K16-Feb, 12:03- 16-Feb, 12:03-4-6km SWHeard12ExplosionUndeterminedN/K16-Feb, 17:35- 16:30-4-6km SWHeard12ExplosionUndeterminedN/K17:40SMM camera in Zolote (government- controlled,2-4km SERecorded6Projectilearea)N/K15-Feb, 21:39								
57km NE of Donetsk)11 and2ExplosionOnderenance18 and15 Feb, 21:24- 21:254-6km SEHeard4BurstHMG21:254-6km SWHeard3ExplosionUndeterminedN/K15-Feb, 22:244-6km SEHeard3BurstHMG15-Feb, 23:103-5km SEHeard4BurstHMG15-Feb, 23:43-3-5km SEHeard2ExplosionUndeterminedN/K15-Feb, 23:516-8km NEHeard23ExplosionUndeterminedN/K15-Feb, 12:03-6-8km NEHeard23ExplosionUndeterminedN/K16-Feb, 16:30-4-6km SWHeard5ExplosionUndeterminedN/K16-Feb, 17:35-4-6km SWHeard12ExplosionUndeterminedN/K17:40SMM camera in Zolote (government- controlled,2-4km SERecorded6Projectilearea)N/K15-Feb, 21:39	⁽ U	-			·			
Donetsk)4-6km SEHeard4BurstHMG21:254-6km SWHeard3ExplosionUndeterminedN/K15-Feb, 22:244-6km SEHeard3BurstHMG15-Feb, 23:103-5km SEHeard4BurstHMG23:483-5km SWHeard2ExplosionUndeterminedN/K15-Feb, 23:516-8km NEHeard23ExplosionUndeterminedN/K15-Feb, 23:516-8km NEHeard5ExplosionUndeterminedN/K12:174-6km SWHeard5ExplosionUndeterminedN/K16:Feb, 16:30-4-6km SWHeard12ExplosionUndeterminedN/K16:Feb, 17:35-4-6km SWHeard12ExplosionUndeterminedN/K17:40SMM camera in Zolote (government- controlled,2-4km SERecorded6Projectilearea)N/K15-Feb, 21:39		4-6km SW	Heard	3	Explosion	Undetermined	N/K	
4-6km SWHeard3ExplosionUndeterminedN/K15-Feb, 22:244-6km SEHeard3BurstHMG15-Feb, 23:103-5km SEHeard4BurstHMG15-Feb, 23:43-3-5km SWHeard2ExplosionUndeterminedN/K15-Feb, 23:516-8km NEHeard2ExplosionUndeterminedN/K15-Feb, 23:516-8km NEHeard23ExplosionUndeterminedN/K16-Feb, 12:03-4-6km SWHeard5ExplosionUndeterminedN/K16-Feb, 16:30-4-6km SWHeard12ExplosionUndeterminedN/K16-Feb, 17:35-4-6km SWHeard12ExplosionUndeterminedN/K17:40SMM camera in Zolote (government- controlled,2-4km SERecorded6Projectilearea)N/K15-Feb, 21:39		4-6km SE	Heard	4	Burst		HMG	
4-6km SEHeard3BurstHMG15-Feb, 23:103-5km SEHeard4BurstHMG15-Feb, 23:43-3-5km SWHeard2ExplosionUndeterminedN/K15-Feb, 23:513-5km SWHeard2ExplosionUndeterminedN/K15-Feb, 23:516-8km NEHeard23ExplosionUndeterminedN/K12:176-8km NEHeard5ExplosionUndeterminedN/K16:Feb, 16:30-4-6km SWHeard5ExplosionUndeterminedN/K16:324-6km SWHeard12ExplosionUndeterminedN/K17:40SMM camera in Zolote (government- controlled,2-4km SERecorded6Projectilearea)N/K15-Feb, 21:39		-				Undetermined		
3-5km SEHeard4BurstHMG15-Feb, 23:43- 23:483-5km SWHeard2ExplosionUndeterminedN/K15-Feb, 23:513-5km SWHeard2ExplosionUndeterminedN/K15-Feb, 23:516-8km NEHeard23ExplosionUndeterminedN/K12:176-8km SWHeard5ExplosionUndeterminedN/K16:Feb, 16:30- 16:324-6km SWHeard5ExplosionUndeterminedN/K16:524-6km SWHeard12ExplosionUndeterminedN/K17:40SMM camera in Zolote (government- controlled,2-4km SERecorded6Projectilearea)N/K15-Feb, 21:39		-			1			
3-5km SWHeard2ExplosionUndeterminedN/K15-Feb, 23:516-8km NEHeard23ExplosionUndeterminedN/K12:176-8km NEHeard5ExplosionUndeterminedN/K12:174-6km SWHeard5ExplosionUndeterminedN/K16-Feb, 16:30-4-6km SWHeard12ExplosionUndeterminedN/K16-Feb, 17:35-4-6km SWHeard12ExplosionUndeterminedN/K17:40SMM camera in Zolote (government- controlled,2-4km SERecorded6Projectilearea)N/K15-Feb, 21:39		-						
6-8km NEHeard23ExplosionUndeterminedN/K16-Feb, 12:03- 12:174-6km SWHeard5ExplosionUndeterminedN/K16-Feb, 16:30- 16:324-6km SWHeard5ExplosionUndeterminedN/K16-Feb, 17:35- 16-Feb, 17:35-4-6km SWHeard12ExplosionUndeterminedN/K16-Feb, 17:35- 17:40SMM camera in Zolote (government- controlled,2-4km SERecorded6Projectilearea)N/K15-Feb, 21:39				4			HMG	
6-8km NEHeard23ExplosionUndeterminedN/K12:174-6km SWHeard5ExplosionUndeterminedN/K16-Feb, 16:30-4-6km SWHeard5ExplosionUndeterminedN/K16:324-6km SWHeard12ExplosionUndeterminedN/K16:7eb, 17:35-4-6km SWHeard12ExplosionUndeterminedN/K17:40SMM camera in Zolote (government- controlled,NE to SW (assessed as inside the disengagement area)2-4km SERecorded6Projectilearea)N/K15-Feb, 21:39		3-5km SW	Heard	2	Explosion	Undetermined	N/K	
4-6km SWHeard5ExplosionUndeterminedN/K16-Feb, 16:30- 16:324-6km SWHeard12ExplosionUndeterminedN/K16-Feb, 17:35- 17:404-6km SWHeard12ExplosionUndeterminedN/K17:40SMM camera in Zolote (government- controlled,2-4km SERecorded6ProjectileN/K15-Feb, 21:39		C 91-m NIE	Thornal	22	Employing	The determined	NI/IZ	
4-6km SWHeard5ExplosionUndeterminedN/K16:324-6km SWHeard12ExplosionUndeterminedN/K16-Feb, 17:35-4-6km SWHeard12ExplosionUndeterminedN/K17:40SMM camera in Zolote (government- controlled,NE to SW (assessed as inside the disengagement area)2-4km SERecorded6Projectilearea)N/K15-Feb, 21:39		6-8KM NE	Heard	23	Explosion	Undetermined	N/K	
4-6km SWHeard12ExplosionUndeterminedN/K16-Feb, 17:35- 17:40SMM camera in Zolote (government- controlled,		4-6km SW	Heard	5	Explosion	Undetermined	N/K	
4-6km SWHeard12ExplosionUndeterminedN/K17:40SMM camera in Zolote (government- controlled,NE to SW (assessed as inside the disengagement2-4km SERecorded6Projectilearea)N/K15-Feb, 21:39					1			
in Zolote (government- controlled, 2-4km SE Recorded 6 Projectile (assessed as inside the disengagement area) N/K 15-Feb, 21:39		4-6km SW	Heard	12	Explosion		N/K	
(government- controlled, 2-4km SE Recorded 6 Projectile area) N/K 15-Feb, 21:39								
controlled, 2-4km SE Recorded 6 Projectile area) N/K 15-Feb, 21:39								
		2-4km SE	Recorded	6	Projectile		N/K	15-Feb. 21:39
-0.0 MI TO -2.4 MI SE RECOLUCU -3 FLOJECULE NE LO SW N/R 15-FeD. 21:44	60km W of	2-4km SE	Recorded	5	Projectile	NE to SW	N/K	15-Feb, 21:44

Luhansk)					(assessed as inside the disengagement area)		
	5-7km SSE	Heard	29	Explosion	Undetermined		16-Feb, 04:49- 04:51
N edge of Popasna	5-7km ESE	Heard	48	Explosion	Undetermined		16-Feb, 04:52- 05:11
(government- controlled,	5-7km ESE	Heard	35	Explosion	Undetermined		16-Feb, 05:33- 05:57
69km W of Luhansk)	3km NW	Heard	17	Explosion	Undetermined		16-Feb, 12:10- 12:30
	3km NW	Heard	50	Burst		Small arms	16-Feb, 12:10- 12:30
N edge of Kalynove-	3-4km WSW	Heard	10	Shot		Small arms	16-Feb, 08:50- 09:00
Borshchuvate (non- government- controlled, 61km W of Luhansk)	3-4km WNW	Heard	25	Shot		Small arms	16-Feb, 08:50- 09:00
1.5km SW of Molodizhne (non- government- controlled, 63km NW of Luhansk)	1-2km WNW	Heard	3	Shot		Small arms	16-Feb, 09:05- 09:07
Holubivske (non- government- controlled, 51km W of Luhansk)	2-4km NE	Heard	25	Burst		HMG	16-Feb, 09:08- 09:10
S edge of the disengagement area near Zolote (government- controlled, 60km W of Luhansk)	2-3km WNW	Heard	40	Burst	Assessed as inside the disengagement area	Small arms	16-Feb, 10:05- 10:30
1.5km NW of Kapitanove (government- controlled, 49km NW of Luhansk) SMM camera	1-2km SE 2-4km ESE	Heard Recorded	3	Shot Projectile	W to E	Small arms N/K	16-Feb, 11:34- 11:38 16-Feb, 18:18
in Avdiivka	4-5km ESE	Recorded	1	Projectile	ESE to WNW	N/K	16-Feb, 17:52
(government- controlled, 17km N of	3-4km SSE	Recorded	1	Explosion	Undetermined	N/K	16-Feb, 19:13
Donetsk)	3-4km SSE	Recorded	1	Explosion	Undetermined	N/K	16-Feb, 19:21
,	2-4km SSE	Recorded	1	Projectile	W to E	N/K	16-Feb, 16:53
	2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	16-Feb, 17:00
	2-4km SE	Recorded	1	Projectile	E to W	N/K	16-Feb, 17:21
SMM camera	2-4km SSE	Recorded	3	Projectile	NE to SW	N/K	16-Feb, 18:05
in Chermalyk	2-4km SSE	Recorded	1	Projectile	NE to SW	N/K	16-Feb, 18:07
(government-	2-4km SSE	Recorded	2	Projectile	NE to SW	N/K	16-Feb, 18:08
controlled, 31km NE of	2-4km SSE	Recorded	4	Projectile	NE to SW	N/K	16-Feb, 18:09
Mariupol)	2-4km SSE	Recorded	12	Projectile	NE to SW	N/K	16-Feb, 18:10
manupor)	2-4km SSE	Recorded	4	Projectile	NE to SW	N/K	16-Feb, 18:11
	2-4km SSE	Recorded	1	Projectile	WSW to ENE	N/K	16-Feb, 18:19

2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	16-Feb, 18:
2-4km SSE	Recorded	3	Projectile	ENE to WSW	N/K	16-Feb, 18:
2-4km SSE	Recorded	2	Explosion	Undetermined	N/K	16-Feb, 18:
2-4km SSE	Recorded	9	Projectile	WSW to ENE	N/K	16-Feb, 18:
2-4km SSE	Recorded	7	Projectile	W to E	N/K	16-Feb, 18:
2-4km SSE	Recorded	2	Projectile	ENE to WSW	N/K	16-Feb, 18:
2-4km SSE	Recorded	3	Projectile	ENE to WSW	N/K	16-Feb, 18:
2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	16-Feb, 18:
2-4km SSE	Recorded	2	Projectile	ENE to WSW	N/K	16-Feb, 18:
2-4km SSE	Recorded	8	Projectile	ENE to WSW	N/K	16-Feb, 18:
2-4km SE	Recorded	3	Projectile	Undetermined	N/K	16-Feb, 18:
2-4km SE	Recorded	6	Projectile	ENE to WSW	N/K	16-Feb, 18:
2-4km SE	Recorded	1	Explosion	Undetermined	N/K	16-Feb, 18:
2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	16-Feb, 18:
2-4km SE	Recorded	3	Explosion	Undetermined	N/K	16-Feb, 18:
2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	16-Feb, 18:
2-4km SSE	Recorded	2	Projectile	ENE to WSW	N/K	16-Feb, 18:
2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	16-Feb, 18:
2-4km SSE	Recorded	4	Projectile	ENE to WSW	N/K	16-Feb, 18:
2-4km SSE	Recorded	1	Projectile	W to E	N/K	16-Feb, 18:
2-4km SSE	Recorded	12	Projectile	ENE to WSW	N/K	16-Feb, 18:
2-4km SSE	Recorded	16	Projectile	ENE to WSW	N/K	16-Feb, 18:
2-4km SSE	Recorded	12	Projectile	ENE to WSW	N/K	16-Feb, 19:
2-4km SSE	Recorded	6	Projectile	W to E	N/K	16-Feb, 19:
2-4km SSE	Recorded	2	Explosion	Undetermined	N/K	16-Feb, 19:
2-4km SSE	Recorded	8	Projectile	W to E	N/K	16-Feb, 19:
2-4km SSE	Recorded	12	Projectile	W to E	N/K	16-Feb, 19:
2-4km SSE	Recorded	4	Projectile	ENE to WSW	N/K	16-Feb, 19:
2-4km SE	Recorded	2	Explosion	Undetermined	N/K	16-Feb, 19:
2-4km SSE	Recorded	1	Explosion	Undetermined	N/K	16-Feb, 19:
2-4km SSE	Recorded	3	Projectile	ENE to WSW	N/K	16-Feb, 19:
2-4km SE	Recorded	1	Explosion	Undetermined	N/K	16-Feb, 19:
2-4km SSE	Recorded	4	Projectile	W to E	N/K	16-Feb, 19:
2-4km SSE	Recorded	2	Projectile	ENE to WSW	N/K	16-Feb, 19:
2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	16-Feb, 19:
2-4km SSE	Recorded	4	Explosion	Undetermined	N/K	16-Feb, 18:
2-4km SSE	Recorded	5	Projectile	W to E	N/K	16-Feb, 19:
2-4km SSE	Recorded	2	Projectile	NE to SW	N/K	16-Feb, 19:
2-4km SSE	Recorded	1	Projectile	W to E	N/K	16-Feb, 19:
2-4km SSE	Recorded	3	Projectile	W to E	N/K	16-Feb, 19:
2-4km SSE	Recorded	3	Projectile	ENE to WSW	N/K	16-Feb, 19:
2-4km SSE	Recorded	12	Projectile	ENE to WSW	N/K	16 Feb, 20:
2-4km SSE	Recorded	5	Projectile	WSW to ENE	N/K	16-Feb, 20:
2-4km SSE	Recorded	2	Projectile	WSW to ENE	N/K	16-Feb, 20:
2-4km SSE	Recorded	1	Projectile	WSW to ENE	N/K	16-Feb, 20:
2-4km SSE	Recorded	5	Projectile	WSW to ENE	N/K N/K	16-Feb, 20:
2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	16-Feb, 20:
2-4km SSE	Recorded	8	Projectile	WSW to ENE	N/K N/K	16-Feb, 20:
2-4km SSE	Recorded	8 16	Projectile	ENE to WSW	N/K N/K	16-Feb, 20:
2-4km SSE	Recorded	2	Explosion		N/K N/K	
2-4km SSE	Recorded	1	Projectile	Undetermined ENE to WSW	N/K N/K	16-Feb, 21: 16-Feb, 21:
		2	5			
2-4km SSE	Recorded		Projectile	WSW to ENE	N/K	16-Feb, 21:
2-4km SSE	Recorded	2	Projectile	WSW to ENE	N/K	16-Feb, 21:
2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	16-Feb, 21:
2-4km SE	Recorded	1	Projectile	ENE to WSW	N/K	16-Feb, 22:
2-4km SE	Recorded	1	Projectile	ENE to WSW	N/K	16-Feb, 22:
1-2km SSE	Recorded	2	Projectile	WSW to ENE	N/K	16-Feb, 22:

	1	i .			1		1 1
	1-2km SSE	Recorded	4	Projectile	WSW to ENE	N/K	16-Feb, 22:53
	1-2km SSE	Recorded	1	Projectile	WSW to ENE	N/K	16-Feb, 23:47
	2-4km SSE	Recorded	2	Projectile	ENE to WSW	N/K	17-Feb, 00:06
	2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	17-Feb, 00:53
	2-4km SSE	Recorded	1	Projectile	ENE to WSW	N/K	17-Feb, 00:54
	2-4km SSE	Recorded	1	Projectile	WSW to ENE	N/K	17-Feb, 00:55
	2-4km SE	Recorded	3	Projectile	ENE to WSW	N/K	17-Feb, 01:36
	2-4km SE	Recorded	4	Projectile	ENE to WSW	N/K	17-Feb, 01:37
	2-4km SE	Recorded	6	Projectile	ENE to WSW	N/K	17-Feb, 02:19
	2-4km SE	Recorded	2	Projectile	WSW to ENE	N/K	17-Feb, 02:25
	2-4km SE	Recorded	1	Explosion	Undetermined	N/K	17-Feb, 02:40
	2-4km SE	Recorded	1	Illumination flare	In vertical flight	N/K	17-Feb, 03:22
	2-4km SE	Recorded	2	Projectile	ENE to WSW	N/K	17-Feb, 04:26
	2 HKIII DE	Recorded		Illumination		1.0.1	17 100, 04.20
	2-4km SE	Recorded	1	flare	In vertical flight	N/K	17-Feb, 04:42
				Illumination			
	2-4km SE	Recorded	1	flare	In vertical flight	N/K	17-Feb, 04:45
	2-4km SE	Recorded	2	Projectile	ENE to WSW	N/K	17-Feb, 04:47
	2-4km SE	Recorded	3	Projectile	WSW to ENE	N/K	17-Feb, 04:47
	2-4km SE	Recorded	2	Projectile	ENE to WSW	N/K	17-Feb, 04:50
	2-4km SE	Recorded	4	Projectile	ENE to WSW	N/K	17-Feb, 04:52
	1-2km SSE	Recorded	1	Projectile	E to W	N/K	16-Feb, 17:10
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	16-Feb, 17:10
	0.5-1km S	Recorded	3	Projectile	SE to NW	N/K	16-Feb, 17:15
	1-2km SW	Recorded	1	Projectile	NW to SE	N/K	16-Feb, 17:55
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	16-Feb, 17:56
	2-4km SSW	Recorded	3	Explosion	Undetermined	N/K	16-Feb, 18:05
	2-4km SSW	Recorded	1	Explosion	Undetermined	N/K	16-Feb, 18:06
	0.5-1km S	Recorded	1	Muzzle flash		N/K	16-Feb, 18:27
	0.5-1km S	Recorded	1	Projectile	E to W	N/K	16-Feb, 18:27
	0.5-1km S	Recorded	1	Projectile	E to W	N/K	16-Feb, 18:30
	0.5-1km	D 11	2	D	W. D	NT/17	16 5 1 10 20
	SSW	Recorded	3	Projectile	W to E	N/K	16-Feb, 18:30
	0.5-1km S	Recorded	7	Projectile	E to W	N/K	16-Feb, 18:44
	2-4km SSW	Recorded	2	Projectile Illumination	S to N	N/K	16-Feb, 19:28
	1-2km SSW	Recorded	1	flare	In vertical flight	N/K	16-Feb, 20:34
	1-2km S	Recorded	4	Explosion	Undetermined	N/K	16-Feb, 20:37
SMM camera	1-2km SSW	Recorded	3	Projectile	W to E	N/K	16-Feb, 20:37
at Donetsk	1-2km SSW	Recorded	1	Projectile	W to E	N/K	16-Feb, 20:38
Filtration	1-2km S	Recorded	5	Explosion	Undetermined	N/K	16-Feb, 20:38
Station (15km	1-2km S	Recorded	8	Explosion	Undetermined	N/K	16-Feb, 20:39
N of Donetsk)	2-3km SSW	Recorded	1	Explosion	Undetermined	N/K	16-Feb, 20:48
	1-2km SSE	Recorded	1	Projectile	E to W	N/K	16-Feb, 21:09
	1-2km SSE	Recorded	3	Projectile	E to W	N/K	16-Feb, 21:11
	1-2km SSW	Recorded	1	Projectile	W to E	N/K	16-Feb, 21:12
	1-2km S	Recorded	2	Projectile	E to W	N/K	16-Feb, 23:21
	1-2km S	Recorded	5	Projectile	E to W	N/K	16-Feb, 23:22
	1-2km S	Recorded	2	Projectile	E to W	N/K	16-Feb, 23:24
	1-2km S	Recorded	3	Projectile	E to W	N/K	16-Feb, 23:27
	1-2km SSW	Recorded	3	Projectile	W to E	N/K	16-Feb, 23:28
	1-2km SSE	Recorded	4	Projectile	E to W	N/K	16-Feb, 23:28
	1-2km SSW	Recorded	1	Projectile	E to W	N/K	16-Feb, 23:30
	1-2km SSE	Recorded	4	Projectile	E to W	N/K	16-Feb, 23:30
	1-2km S5L	Recorded	1	Explosion	Undetermined	N/K	16-Feb, 23:30
	1-2km S	Recorded	1	Explosion	Undetermined	N/K	16-Feb, 23:32
	1-2km SSE	Recorded	1	Projectile	E to W	N/K	16-Feb, 23:32
				Illumination			
	1-2km SSW	Recorded	1	flare	In vertical flight	N/K	16-Feb, 23:34

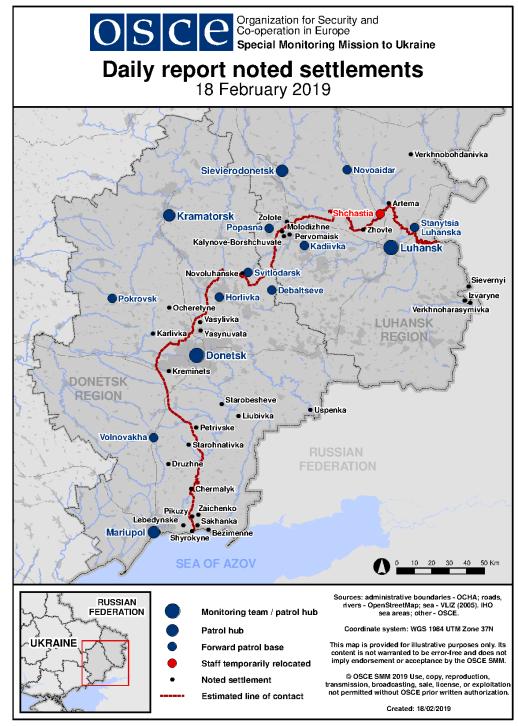
1.5km NB of Qaverament (goverament) 3-4km E 2-8km E 2-4km FSE Recorded 2 Projectile W to E N/K 16-feb, 19-23 20km NEof Marinpol) 2-4km FSE Recorded 3 Projectile S to N N/K 16-feb, 19-23 20km NEof Marinpol) 2-4km FSE Recorded 6 Projectile S to N N/K 17-feb, 04:16 3 Horizonia -	SMM camera	3-4km E	Recorded	1	Explosion	Undetermined	N/K	16-Feb, 19:10
Hutove Government- Controlled, 2.4km EE Recorded 2 Projectile W to E N/K 16-Feb, 19:20 (government- controlled, 3.5km K energy at enty-exit checkpoint in Maiorsk (government- controlled, 4.5km NE of 2.4km NE Recorded 1 Explosion Undetermined N/K 16-Feb, 20:58 SMM camera at enty-exit checkpoint in Maiorsk (government- controlled, 4.5km NE of 2.4km NE Recorded 1 Bare 1.2km NK Recorded 1 Bare 1.2km S Recorded 2 Explosion Undetermined N/K 16-Feb, 20:58 SMM camera 1.2km S Recorded 2 Explosion Impact N/K 16-Feb, 18:22 2.3km SK Recorded 3 Projectile E to W N/K 16-Feb, 18:20 2.3km S Recorded 3 Projectile E to W N/K 16-Feb, 18:20 2.3km S Recorded 3 Projectile E to W N/K 16-Feb, 19:11 2.3km S Recorded 3 Projectile E to W N/K 16-Feb, 19:11 2.3km S Recorded 3 Projectile E to W N/K 16-Feb, 19:11 2.3km S Recorded 3 Projectile E to W N/K 16-Feb, 19:11 2.3km S Recorded 3 Projectile E to W N/K 16-Feb, 19:11 2.3km S Recorded 1 Projectile E to W N/K 16-Feb, 19:11 2.3km S Recorded 1 Projectile E to W N/K 16-Feb, 19:11 2.3km S Recorded 1 Projectile E to W N/K 16-Feb, 19:11 2.3km S Recorded 1 Projectile E to W N/K 16-Feb, 19:11 2.3km S Recorded 1 Projectile WNW to ESE N/K 16-Feb, 19:13 2.3km S Recorded 1 Projectile WNW to ESE N/K 16-Feb, 19:13 2.4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:20 2.4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:13 2.4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:13 2.4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:13 2.4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:13 2.4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:13 2.4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:13 2.4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:13 2.4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:13 2.4km NNE Recorded 1 Projectile WNW to ESE N/K 16-F	1.5km NE of	3-4km E	Recorded	3	<u>.</u>	WNW to ESE	N/K	
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(government- controlled, 23km SW of Donetsk) 2-4km NR Recorded 1 Illumination flare In vertical flight N/K 16-Feb, 22:32 SMM camera at entry-exit (ceckpoint in government- controlled, 23km SS R Recorded 5 Projectile E to W N/K 16-Feb, 18:00 2.3km SS R Recorded 2 Explosion Impact N/K 16-Feb, 18:22 (government- controlled, 23km SS R Recorded 3 Projectile E to W N/K 16-Feb, 19:11 23km SS R Recorded 3 Projectile E to W N/K 16-Feb, 19:11 23km SS R Recorded 2 Projectile E to W N/K 16-Feb, 19:11 23km SS R Recorded 1 Projectile E to W N/K 16-Feb, 12:57 23km SS R Recorded 1 Projectile WN to ESE N/K 16-Feb, 17:59 24km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:12 20km E of Mariupol 2-4km NNE Recorded 1 <td>checkpoint in</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	checkpoint in							
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23km SW of Donetsky 2.4km N Recorded 1 flare In vertical flight N/K 16-Feb, 22:32 SMM camera at entry-exit checkpoint in pyshchevyk (government- controlled, 1-2km S Recorded 10 Projectile E to W N/K 16-Feb, 18:00 2-3km SS Recorded 5 Projectile E to W N/K 16-Feb, 18:21 2-3km SS Recorded 5 Projectile E to W N/K 16-Feb, 19:11 2-3km SS Recorded 5 Projectile E to W N/K 16-Feb, 19:11 2-3km SS Recorded 2 Projectile E to W N/K 16-Feb, 19:11 2-3km SS Recorded 2 Projectile E to W N/K 16-Feb, 19:11 2-3km SS Recorded 1 Projectile E to W N/K 16-Feb, 19:17 2-3km SN Recorded 1 Projectile WNW to ESE N/K 16-Feb, 17:54 2-4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:12 SMM camera Ikm SW of 2-4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:10 2-4km NNE Recorded 1 Projectile </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Donetsk) 2-4km N Recorded 1 flare In vertical flight N/K 16-Feb, 12:32 SMM camera at entry-exit checkpoint in Pyshchevyk (government- controlled, 2-3km SE Recorded 5 Projectile E to W N/K 16-Feb, 18:01 2-3km SE Recorded 2 Explosion Impact N/K 16-Feb, 19:11 2-3km SS Recorded 3 Projectile E to W N/K 16-Feb, 19:11 2-3km SS Recorded 1 Projectile E to W N/K 16-Feb, 19:11 2-3km SS Recorded 1 Projectile E to W N/K 16-Feb, 19:11 2-3km SS Recorded 1 Projectile E to W N/K 16-Feb, 12:57 2-3km SS Recorded 1 Projectile WNW to ESE N/K 16-Feb, 17:54 2-4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:10 Shyrokyne 2-4km NNE Recorded 1 Projectile WNW to ESE N/K <td>,</td> <td></td> <td></td> <td></td> <td>Illumination</td> <td></td> <td></td> <td></td>	,				Illumination			
SMM camera at entry-exit entry-exit checkpoint in Pyshchevyk (government- controlled, 23km SK B Recorded 10 Projectile E to W N/K 16-Feb, 18:00 2-3km S Recorded 2 Explosion Impact N/K 16-Feb, 18:01 2-3km S Recorded 2 Explosion Impact N/K 16-Feb, 18:01 2-3km S Recorded 3 Projectile E to W N/K 16-Feb, 19:11 2-3km S Recorded 10 Projectile E to W N/K 16-Feb, 19:11 2-3km S Recorded 10 Projectile E to W N/K 16-Feb, 19:17 2-3km S Recorded 1 Projectile E to W N/K 16-Feb, 18:10 2-3km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:10 2-4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:12 2-km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:12 2-km		2-4km N	Recorded	1		In vertical flight	N/K	16-Feb. 22:32
SMM camera at entry-exit checkpoint in pyshchevyki (government- controlled, 23km S Recorded 5 Projectile E to W N/K 16-Feb, 18:01 2-3km S Recorded 2 Explosion Impact N/K 16-Feb, 18:02 2-3km S Recorded 3 Projectile E to W N/K 16-Feb, 19:11 2-3km S Recorded 5 Projectile E to W N/K 16-Feb, 19:11 2-3km S Recorded 10 Projectile E to W N/K 16-Feb, 19:11 2-3km S Recorded 10 Projectile E to W N/K 16-Feb, 19:11 2-3km S Recorded 1 Projectile ENC WNW to ESE N/K 16-Feb, 18:06 2-3km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:10 2-4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:10 2-4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:11	Donetsky	-				ů.		
at entry-exit checkpoint in Pyshchevyk (government- controlled, 25km NE of Mariupol) 2-3km S Recorded 2 Explosion Impact N/K 16-Feb, 19:11 2-3km S Recorded 5 Explosion Impact N/K 16-Feb, 19:11 2-3km S Recorded 5 Projectile E to W N/K 16-Feb, 19:11 2-3km S Recorded 5 Projectile E to W N/K 16-Feb, 19:11 2-3km S Recorded 10 Projectile E to W N/K 16-Feb, 19:12 2-3km S Recorded 1 Projectile E to W N/K 16-Feb, 12:57 2-3km S Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:12 2-4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:11 Shyrokyne (government- controlled, 20km E of 2-4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:12 2-4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:12 2/stm NNE Reco	SMM camera				U U			
checkpoint in Pyshchevyk (government- controlled, 23km S SE Recorded 5 Explosion Impact N/K 16-Feb, 19:11 2.3km S Recorded 3 Projectile E to W N/K 16-Feb, 19:11 2.3km S Recorded 2 Projectile E to W N/K 16-Feb, 19:11 2.3km S Recorded 2 Projectile E to W N/K 16-Feb, 20:05 2.3km S Recorded 10 Projectile E to W N/K 16-Feb, 21:57 2.3km S Recorded 11 Projectile WNW to ESE N/K 16-Feb, 17:54 2.4km NNE Recorded 11 Projectile WNW to ESE N/K 16-Feb, 17:54 2.4km NNE Recorded 12 Projectile WNW to ESE N/K 16-Feb, 17:54 2.4km NNE Recorded 12 Projectile WNW to ESE N/K 16-Feb, 18:06 2.4km NNE Recorded 11 Projectile WNW to ESE N/K 16-Feb, 18:10 2.4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:11 2.4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:12 2.4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:13 2.4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:13 2.4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:13 2.4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:13 2.4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:20 2.4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:20 2.4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:20 2.4km NNE Recorded 3 Projectile WNW to ESE N/K 16-Feb, 18:20 2.4km NNE Recorded 7 Projectile WNW to ESE N/K 16-Feb, 18:20 2.4km NNE Recorded 7 Projectile WNW to ESE N/K 16-Feb, 18:20 2.4km NNE Recorded 7 Projectile WNW to ESE N/K 16-Feb, 18:21 2.4km NNE Recorded 5 Projectile WNW to ESE N/K 16-Feb, 18:21 2.4km SE Recorded 5 Projectile E to W N/K 17-Feb, 18:32 2.4km SE Recorded 5 Projectile E to W N/K 18-Feb, 18:11 2.4km SE Recorded 10 Projectile E to W N/K 19-Feb, 18:41 2.4km SE Recorded 10 Projectile E to W N/K 19-Feb, 18:10 2.4km SE Recorded 10 Projectile E to W N/K 19-Feb, 18:10 2.4km SE Recorded 10 Projectile E to W N/K 19-Feb, 18:10 2.4km SE Recorded 11 Projectile E to W N/K 20-Feb, 18:17 3.5km NE of N/K 18-Feb, 18:03 0.0ksandrivka (non- government- controlled, 2.3km NW Heard 9 Burst arms 17-Feb, 09:50	at entry-exit				0			
Pyshchevyk (government- controlled, 23km NE of Mariupol)2.3km SRecorded3ProjectileE to WN/K16-Feb, 19:112.3km SRecorded5ProjectileE to WN/K16-Feb, 20:052.3km SRecorded1ProjectileE to WN/K16-Feb, 21:572.3km SRecorded1ProjectileE to WN/K16-Feb, 22:052.3km SRecorded1ProjectileWNW to ESEN/K16-Feb, 17:542.3km NNERecorded1ProjectileWNW to ESEN/K16-Feb, 17:592.4km NNERecorded2ProjectileWNW to ESEN/K16-Feb, 18:102.4km NNERecorded1ProjectileWNW to ESEN/K16-Feb, 18:112.4km NNERecorded1ProjectileWNW to ESEN/K16-Feb, 18:122.4km NNERecorded1ProjectileWNW to ESEN/K16-Feb, 18:132.4km NNERecorded1ProjectileWNW to ESEN/K16-Feb, 18:122.4km NNERecorded5ProjectileWNW to ESEN/	·				•			
Government- controlled, 25km NE of Mariupol) 2-3km S Recorded 5 Projectile E to W N/K 16-Feb, 20:05 2.3km SSE Recorded 10 Projectile E to W N/K 16-Feb, 20:05 2.3km SSE Recorded 10 Projectile E to W N/K 16-Feb, 20:05 2.3km SS Recorded 10 Projectile ENE to WSW N/K 16-Feb, 20:05 2.3km SSE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 17:59 2.4km NNE Recorded 2 Projectile WNW to ESE N/K 16-Feb, 18:11 2.4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:13 (government- controlled, 2.4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:13 20km E of Mariupol) 2.4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:13 2.4km NNE Recorded 1 Projectile WNW								
Controlled, Skm N ef2-3km SRecorded2ProjectileE to WN/K16-Feb, 20:05Mariupol)2-3km SERecorded10ProjectileENE to WSWN/K16-Feb, 21:572-3km SERecorded1ProjectileE to WN/K16-Feb, 22:052-4km NNERecorded1ProjectileWNW to ESEN/K16-Feb, 17:542-4km NNERecorded1ProjectileWNW to ESEN/K16-Feb, 17:592-4km NNERecorded2ProjectileWNW to ESEN/K16-Feb, 18:112-4km NNERecorded1ProjectileWNW to ESEN/K16-Feb, 18:122-4km NNERecorded1ProjectileWNW to ESEN/K16-Feb, 18:13(government- controlled,2-4km NNERecorded1ProjectileWNW to ESEN/K16-Feb, 18:2020km E of Mariupol)2-4km NNERecorded1ProjectileWNW to ESEN/K16-Feb, 18:202-4km NNERecorded1ProjectileWNW to ESEN/K16-Feb, 18:202-4km NNERecorded1ProjectileWNW to ESEN/K16-Feb, 18:202-4km NNERecorded1ProjectileWNW to ESEN/K16-Feb, 18:202-4km NNERecorded2ProjectileWNW to ESEN/K16-Feb, 18:202-4km SERecorded3ProjectileWNW to ESEN/K16-Feb, 18:522-4km SERecorded <t< td=""><td></td><td>-</td><td></td><td></td><td>Ū.</td><td></td><td></td><td></td></t<>		-			Ū.			
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SMM camera Ikm SW of Shyrokyne (government- controlled, 24km NERecorded1ProjectileWNW to ESEN/K16-Feb, 17:592-4km NNERecorded2ProjectileWNW to ESEN/K16-Feb, 18:102-4km NV62-4km NNERecorded1ProjectileWNW to ESEN/K16-Feb, 18:112-4km NNERecorded1ProjectileWNW to ESEN/K16-Feb, 18:122-4km NNERecorded1ProjectileWNW to ESEN/K16-Feb, 18:122-4km NNERecorded1ProjectileWNW to ESEN/K16-Feb, 18:122-4km NNERecorded1ProjectileWNW to ESEN/K16-Feb, 18:122-4km NNERecorded1ProjectileWNW to ESEN/K16-Feb, 18:202-4km NNERecorded1ProjectileWNW to ESEN/K16-Feb, 18:252-4km NNERecorded14ProjectileWNW to ESEN/K16-Feb, 18:522-4km NNERecorded2ProjectileWNW to ESEN/K16-Feb, 18:522-4km NNERecorded3ProjectileWNW to ESEN/K16-Feb, 18:522-4km NNERecorded5ProjectileWNW to ESEN/K16-Feb, 18:132-4km SERecorded5ProjectileE to WN/K17-Feb, 18:142-4km SERecorded5ProjectileE to WN/K19-Feb, 18:112-4km SERecorded10Projectile </td <td></td> <td></td> <td></td> <td>1</td> <td>Ū.</td> <td></td> <td></td> <td></td>				1	Ū.			
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Annore Shyrokyne (government- controlled, 20km E of Mariupol)2-4km NNE RecordedRecorded1ProjectileWNW to ESEN/K16-Feb, 18:132-4km NNE Mariupol)2-4km NNE 2-4km NNE Recorded1ProjectileWNW to ESEN/K16-Feb, 18:202-4km NNE Mariupol)2-4km NNE 2-4km NNE Recorded1ProjectileWNW to ESEN/K16-Feb, 18:202-4km NNE Recorded1ProjectileWNW to ESEN/K16-Feb, 18:212-4km NNE Recorded2ProjectileWNW to ESEN/K16-Feb, 18:512-4km NNE Recorded2ProjectileWNW to ESEN/K16-Feb, 18:512-4km NNE Recorded2ProjectileWNW to ESEN/K16-Feb, 18:512-4km NNE Recorded7ProjectileWNW to ESEN/K16-Feb, 18:512-4km SE Recorded7ProjectileE to WN/K16-Feb, 18:512-4km SE Recorded7ProjectileE to WN/K18-Feb, 18:112-4km SE Recorded7ProjectileE to WN/K19-Feb, 18:122-4km SE Recorded10ProjectileE to WN/K20-Feb, 18:1731km NE of Huntove (government- controlled, 2-4km SERecorded1ExplosionUndeterminedN/K21-Feb, 18:03Oleksandrivka (non- government- controlled,2-4km SERecorded1ProjectileNW to SEN/K17-Feb, 09:49Oleksandrivka				1	0	WNW to ESE	N/K	
(government- controlled, 20km E of Mariupol)2-4km NNERecorded4ProjectileWNW to ESEN/K16-Feb, 18:192.4km NNERecorded1ProjectileWNW to ESEN/K16-Feb, 18:202.4km NNERecorded1ProjectileWNW to ESEN/K16-Feb, 18:252.4km NNERecorded14ProjectileWNW to ESEN/K16-Feb, 18:252.4km NNERecorded3ProjectileWNW to ESEN/K16-Feb, 18:512.4km NNERecorded2ProjectileWNW to ESEN/K16-Feb, 18:522.4km NNERecorded7ProjectileWNW to ESEN/K16-Feb, 18:512.4km SNERecorded5ProjectileWNW to ESEN/K16-Feb, 18:512.4km SERecorded5ProjectileE to WN/K16-Feb, 18:112.4km SERecorded5ProjectileE to WN/K18-Feb, 18:112.4km SERecorded10ProjectileE to WN/K19-Feb, 18:20SMM camera1.5km NE ofIntroveIntroveN/K21-Feb, 18:20Introve(government- controlled,2.4km SERecorded1ExplosionUndeterminedN/K21-Feb, 18:03Oleksandrivka (non- government- controlled,2.4km ESERecorded1ProjectileNW to SEN/K17-Feb, 09:49Outsoled,2.4km SERecorded1ProjectileNW to SEN/K1				1	ě.	WNW to ESE		
controlled, 20km E of Mariupol)2-4km NNERecorded1ProjectileWNW to ESEN/K16-Feb, 18:202-4km NNERecorded1ProjectileWNW to ESEN/K16-Feb, 18:252-4km NNERecorded14ProjectileWNW to ESEN/K16-Feb, 18:252-4km NNERecorded3ProjectileWNW to ESEN/K16-Feb, 18:512-4km NNERecorded2ProjectileWNW to ESEN/K16-Feb, 18:522-4km NNERecorded7ProjectileWNW to ESEN/K16-Feb, 18:522-4km NNERecorded7ProjectileWNW to ESEN/K16-Feb, 18:522-4km SERecorded5ProjectileE to WN/K16-Feb, 18:512-4km SERecorded5ProjectileE to WN/K17-Feb, 17:352-4km SERecorded10ProjectileE to WN/K19-Feb, 18:142-4km SERecorded1ProjectileE to WN/K20-Feb, 18:1731km NE of Mariupol2-4km SERecorded1ExplosionUndeterminedN/K21-Feb, 18:20SMM camera 1.5km NE of Mariupol2-4km SERecorded1ExplosionUndeterminedN/K21-Feb, 18:20SMM camera (government- controlled, 20km NEof2-4km ESERecorded1ProjectileKN/K17-Feb, 18:03Oleksandrivka (non- government- controlled,2-4km ESERecorded		2-4km NNE	Recorded	4	Projectile	WNW to ESE	N/K	16-Feb, 18:19
Mariupol)2-4km NNERecorded1HojectileWNW to ESEN/KHojech, 18:252-4km NNERecorded14ProjectileWNW to ESEN/K16-Feb, 18:472-4km NNERecorded3ProjectileWNW to ESEN/K16-Feb, 18:512-4km NNERecorded2ProjectileWNW to ESEN/K16-Feb, 18:522-4km NNERecorded7ProjectileWNW to ESEN/K16-Feb, 18:522-4km SERecorded5ProjectileE to WN/K17-Feb, 17:353 In Chermalyk (government- controlled, 31km NE of2-4km SERecorded5ProjectileE to WN/K19-Feb, 18:142-4km SERecorded10ProjectileE to WN/K19-Feb, 18:173 Ikm NE of2-4km SERecorded10ProjectileE to WN/K21-Feb, 18:1203 MM camera 1.5km NE of2-4km SERecorded1ExplosionUndeterminedN/K21-Feb, 18:203 MM camera (government- controlled, 20km NEof2-4km ESERecorded1ProjectileNW to SEN/K17-Feb, 18:030 leksandrivka (non- government- controlled, 2-3km NWHeard9BurstSmall arms17-Feb, 09:490 leksandrivka (non- government- controlled, 2-3km NWHeard2BurstSmall arms17-Feb, 09:50	controlled,	2-4km NNE	Recorded	1		WNW to ESE	N/K	16-Feb, 18:20
2-4km NNERecorded14ProjectileWNW to ESEN/K16-Feb, 18:472-4km NNERecorded3ProjectileWNW to ESEN/K16-Feb, 18:512-4km NNERecorded2ProjectileWNW to ESEN/K16-Feb, 18:522-4km NNERecorded7ProjectileWNW to ESEN/K16-Feb, 18:522-4km SERecorded7ProjectileWNW to ESEN/K16-Feb, 18:522-4km SERecorded5ProjectileE to WN/K17-Feb, 17:352-4km SERecorded4ProjectileE to WN/K19-Feb, 18:112-4km SERecorded10ProjectileE to WN/K20-Feb, 18:1731km NE of2-4km SERecorded1ExplosionUndeterminedN/K21-Feb, 18:20SMM camera1.5km NE of1ExplosionUndeterminedN/K21-Feb, 18:20SMM camera1.5km NE of1ExplosionUndeterminedN/K21-Feb, 18:20SMM camera1.5km NE of1ProjectileNW to SEN/K17-Feb, 18:03Oleksandrivka2-4km ESERecorded1ProjectileNW to SEN/K17-Feb, 09:49government-2-4km ESERecorded1ProjectileNW to SEN/K17-Feb, 09:49government-2-3km NWHeard9BurstSmallarms17-Feb, 09:50		2-4km NNE	Recorded	1	Projectile	WNW to ESE	N/K	16-Feb, 18:25
2-4km NNERecorded2ProjectileWNW to ESEN/K16-Feb, 18:522-4km NNERecorded7ProjectileWNW to ESEN/K16-Feb, 20:40SMM camera in Chermalyk (government- controlled, 31km NE of2-4km SERecorded5ProjectileE to WN/K17-Feb, 17:352-4km SERecorded4ProjectileE to WN/K18-Feb, 18:112-4km SERecorded4ProjectileE to WN/K19-Feb, 18:142-4km SERecorded10ProjectileE to WN/K20-Feb, 18:1731km NE of Mariupol)2-4km SERecorded1ExplosionUndeterminedN/K21-Feb, 18:20SMM camera (government- controlled, 20km NEof	Mariupol)	2-4km NNE	Recorded	14	Projectile	WNW to ESE	N/K	16-Feb, 18:47
2-4km NNERecorded7ProjectileWNW to ESEN/K16-Feb, 20:40SMM camera in Chermalyk (government- controlled, 31km NE of Mariupol)2-4km SERecorded5ProjectileE to WN/K17-Feb, 17:352-4km SERecorded5ProjectileE to WN/K18-Feb, 18:112-4km SERecorded4ProjectileE to WN/K19-Feb, 18:142-4km SERecorded10ProjectileE to WN/K20-Feb, 18:17Mariupol)2-4km SERecorded1ExplosionUndeterminedN/K21-Feb, 18:20SMM camera 1.5km NE of Hnutove (government- controlled, 20km NEofMariupol)2-4km ESERecorded1ExplosionUndeterminedN/K21-Feb, 18:20Oleksandrivka (non- 2-3km NW0leksandrivka (non-2-3km NWHeard9BurstSmall arms17-Feb, 09:50		2-4km NNE	Recorded	3	Projectile	WNW to ESE	N/K	16-Feb, 18:51
SMM camera in Chermalyk (government- controlled, 31km NE of Mariupol)2-4km SERecorded5ProjectileE to WN/K17-Feb, 17:352-4km SERecorded5ProjectileE to WN/K18-Feb, 18:112-4km SERecorded4ProjectileE to WN/K19-Feb, 18:142-4km SERecorded10ProjectileE to WN/K20-Feb, 18:1731km NE of Mariupol)2-4km SERecorded1ExplosionUndeterminedN/K21-Feb, 18:20SMM camera 1.5km NE of Hnutove (government- controlled, 20km NEof2-4km ESERecorded1ExplosionUndeterminedN/K21-Feb, 18:03Oleksandrivka (non- government- controlled,2-3km NWHeard9BurstSmall arms17-Feb, 09:49government- controlled,2-3km NWHeard2BurstSmall arms17-Feb, 09:50		2-4km NNE	Recorded	2	Projectile	WNW to ESE	N/K	16-Feb, 18:52
in Chermalyk (government- controlled, 31km NE of Mariupol)2-4km SERecorded5ProjectileE to WN/K18-Feb, 18:112-4km SERecorded4ProjectileE to WN/K19-Feb, 18:142-4km SERecorded10ProjectileE to WN/K20-Feb, 18:1731km NE of Mariupol)2-4km SERecorded1ExplosionUndeterminedN/K21-Feb, 18:20SMM camera 1.5km NE of Hnutove (government- controlled, 20km NEof Mariupol)-4km ESERecorded1ExplosionUndeterminedN/K21-Feb, 18:20SMM camera 1.5km NE of Hnutove (government- controlled, 20km NEof Mariupol)2-4km ESERecorded1ProjectileNW to SEN/K17-Feb, 18:03Oleksandrivka (non- government- controlled,2-3km NWHeard9BurstSmall arms17-Feb, 09:49government- controlled,2-3km NWHeard2BurstSmall arms17-Feb, 09:50		2-4km NNE	Recorded	7	Projectile	WNW to ESE	N/K	16-Feb, 20:40
(government- controlled, 31km NE of Mariupol)2-4km SERecorded4ProjectileE to WN/K10 Feb, 10.112-4km SERecorded4ProjectileE to WN/K19-Feb, 18:142-4km SERecorded10ProjectileE to WN/K20-Feb, 18:17Mariupol)2-4km SERecorded1ExplosionUndeterminedN/K21-Feb, 18:20SMM camera 1.5km NE of Hnutove (government- controlled, 20km NEofMariupol)2-4km ESERecorded1ProjectileNW to SEN/K17-Feb, 18:03Oleksandrivka (non- government- controlled,2-3km NWHeard9BurstSmall arms17-Feb, 09:50		2-4km SE	Recorded	5	Projectile	E to W	N/K	17-Feb, 17:35
Controlled, 31km NE of Mariupol)2-4km SERecorded10ProjectileE to WN/K19-reb, 18:172-4km SERecorded10ProjectileE to WN/K20-Feb, 18:17SMM camera 1.5km NE of Hnutove (government- controlled, 20km NEof	•	2-4km SE	Recorded	5	Projectile	E to W	N/K	18-Feb, 18:11
31km NE of Mariupol)2-4km SERecorded10ProjectileE to WN/K20-Feb, 18:17Mariupol)2-4km SERecorded1ExplosionUndeterminedN/K21-Feb, 18:20SMM camera 1.5km NE of Hnutove (government- controlled, 20km NEofMariupol)2-4km ESERecorded1ProjectileNW to SEN/K17-Feb, 18:03Oleksandrivka (non- government- controlled,2-3km NWHeard9BurstSmall arms17-Feb, 09:49government- controlled,2-3km NWHeard2BurstSmall arms17-Feb, 09:50		2-4km SE	Recorded	4	Projectile	E to W	N/K	19-Feb, 18:14
Mariupol)2-4km SERecorded1ExplosionUndeterminedN/K21-Feb, 18:20SMM camera 1.5km NE of Hnutove (government- controlled, 20km NEofImage: Signal state st		2-4km SE	Recorded	10	Projectile	E to W	N/K	20-Feb, 18:17
SMM camera 1.5km NE of Hnutove (government- controlled, 20km NEofImage: Control of the systemImage: Control of the system20km NEof Mariupol)2-4km ESERecorded1ProjectileNW to SEN/K17-Feb, 18:03Oleksandrivka (non- government- controlled,2-3km NWHeard9BurstSmall arms17-Feb, 09:49Sovernment- controlled,2-3km NWHeard2BurstSmall arms17-Feb, 09:50		2-4km SE	Recorded	1	Explosion	Undetermined	N/K	21-Feb 18:20
1.5km NE of Hnutove (government- controlled, 20km NEofImage: second secon		2 min bE	Recorded	- 1	Emplosion		1.0.11	21100,10.20
(government- controlled, 20km NEofImage: Second secon								
controlled, 20km NEof Mariupol)2-4km ESERecorded1ProjectileNW to SEN/K17-Feb, 18:03Oleksandrivka (non- government- controlled,2-3km NWHeard9BurstSmall arms17-Feb, 09:49Somethy Controlled,2-3km NWHeard2BurstSmall arms17-Feb, 09:50								
20km NEof Mariupol)2-4km ESERecorded1ProjectileNW to SEN/K17-Feb, 18:03Oleksandrivka (non- government- controlled,2-3km NWHeard9BurstSmall arms17-Feb, 09:49Smoll arms2-3km NWHeard2BurstSmall arms17-Feb, 09:50							1	
Mariupol)2-4km ESERecorded1ProjectileNW to SEN/K17-Feb, 18:03Oleksandrivka (non-2-3km NWHeard9BurstSmall arms17-Feb, 09:49government- controlled,2-3km NWHeard2BurstSmall arms17-Feb, 09:50							1	
Oleksandrivka (non- government- controlled,2-3km NWHeard9BurstSmall arms17-Feb, 09:49Burst2-3km NWHeard2BurstSmall arms17-Feb, 09:50		2-4km ESE	Recorded	1	Projectile	NW to SF	N/K	17-Feb 18.02
(non- government- controlled,2-3km NWHeard9Burstarms17-Feb, 09:49Small arms2-3km NWHeard2Burstarms17-Feb, 09:50	-	2-4KIII ESE	Recorded	1	riojecule	INW W DE		17-190, 18:05
government- controlled, 2-3km NW Heard 2 Burst Small arms 17-Feb, 09:50		2-3km NW	Heard	9	Burst			17-Feb. 09:49
controlled,2-3km NWHeard2Burstarms17-Feb, 09:50	· ·			,				
		2-3km NW	Heard	2	Burst			17-Feb, 09:50
2 Explosion of determined $1/1$ $1/1$ $(0,0).51$	20km SW of	3-4km W	Heard	2	Explosion	Undetermined	N/K	17-Feb, 09:51

Damatala)	٦	I	1	1	1	C	1
Donetsk)	2-3km NW	Heard	30	Shot		Small arms	17-Feb, 09:54
	2-3km NW	Heard	5	Burst		Small arms	17-Feb, 09:55
	2-3km						
	WNW	Heard	6	Shot		AGL	17-Feb, 09:56
	2-3km NW	Heard	7	Burst		Small arms	17-Feb, 09:57
	3-4km W	Heard	1	Explosion	Undetermined	N/K	17-Feb, 09:57
	2.5-3.5km						
	NW	Heard	2	Explosion	Undetermined	N/K	17-Feb, 13:28
	2-4km NW	Heard	1	Explosion	Undetermined	N/K	17-Feb, 13:29
	3-4km NW	Heard	13	Shot		Cannon 30mm	17-Feb, 13:52
Central	4-5km NW	Heard	13	Explosion	Undetermined	N/K	17-Feb, 13:59
railway station	2-3km	Tieatu	1	Explosion	Ondetermined	IN/K	17-1-60, 15.59
in Donetsk (non-	WNW	Heard	1	Explosion	Undetermined	N/K Cannon	17-Feb, 14:00
government-	3-4km NW	Heard	5	Shot		Cannon 30mm	17-Feb, 14:01
controlled,	2-4km W	Heard	1	Explosion	Undetermined	N/K	17-Feb, 14:01 17-Feb, 14:02
6km NW of	2-4km W	Heard	3	Explosion	Impact	N/K	17-Feb, 14:02
Donetsk city centre)	2-4KIII W	Ticalu	5	Explosion	Impact	Small	17-100, 14.05
centre)	2-3km W	Heard	3	Burst		arms	17-Feb, 14:03
						Small	,
	2-3km W	Heard	4	Burst		arms	17-Feb, 14:04
						Small	
	2-3km W	Heard	1	Shot		arms	17-Feb, 14:04
About 1km			Unco			G 11	17 5 1 00 40
NW of the	3-4km NW	Hoord	unta ble	Durat		Small	17-Feb, 09:40- 09:43
railway station in Yasynuvata	3-4Km N W	Heard	bie	Burst		arms	09:43
(non-							
government-							
controlled,			Unco				
16km NE of			unta				17-Feb, 09:40-
Donetsk)	3-4km NW	Heard	ble	Burst		HMG	09:43
					TT 1 . • 1	21/17	17-Feb, 10:29-
	2-3km W	Heard	2	Explosion	Undetermined	N/K Small	10:40
	2-3km NW	Heard	1	Shot		arms	17-Feb, 10:32
The railway	2-3km	Ticura	1	Shot		ams	17 100, 10.52
station in Yasynuvata	NNW	Heard	1	Burst		HMG	17-Feb, 10:40
(non-	3-4km W	Heard	2	Explosion	Undetermined	N/K	17-Feb, 12:45
government-	3-4km NW	Heard	1	Explosion	Undetermined	N/K	17-Feb, 12:48
controlled,				•		Small	
16km NE of	3-4km NW	Heard	2	Shot		arms	17-Feb, 12:48
Donetsk)	3-4km NW	Heard	1	Explosion	Undetermined	N/K	17-Feb, 13:03
						Small	
	3-4km NW	Heard	1	Shot		arms	17-Feb, 13:03
	3-4km NW	Heard	3	Explosion	Undetermined	N/K	17-Feb, 13:20
SE part of							
Avdiivka (government-							
controlled,							
17km N of							
Donetsk)	3-4km E	Heard	10	Burst		HMG	17-Feb, 10:42
3km NE of	T					Ī	
Zaichenko							
(non-							
government-							
controlled,						C11	17 E-1 10 50
26km NE of Mariupol)	N/K W	Heard	4	Shot		Small arms	17-Feb, 10:56- 10:58
About 2km SE	11/15 11	Ticaru	+	Shot		Small	10.58 17-Feb, 11:30-
of Lebedynske	N/K NNE	Heard	2	Shot		arms	11:32
inde				*	1		

(government-	1	1	ľ	l	Assessed to be part		1 1
controlled,					of a live fire		17-Feb, 11:57-
16km NE of	N/K NW	Heard	36	Burst	training exercise	HMG	12:03
Mariupol)					Assessed to be part		
1					of a live fire		17-Feb, 12:06-
	N/K NW	Heard	55	Burst	training exercise	HMG	12:21
					Assessed to be part		
					of a live fire	Small	17-Feb, 12:06-
	N/K NW	Heard	44	Shot	training exercise	arms	12:21
						Small	17-Feb, 12:06-
	N/K N	Heard	16	Shot		arms	12:21
1km NNW of							
Pyshchevyk							
(government- controlled,							
25km NE of							
Mariupol)	N/K NE	Heard	2	Explosion	Undetermined	N/K	17-Feb, 14:05
Warupon	6-8km	Ticara	2	Explosion	Chaeterhinied	10/10	17 100, 14.05
Horlivka (non-	NNW	Heard	1	Explosion	Undetermined	N/K	16-Feb, 21:15
government-	4-6km W	Heard	2	Burst	Chartenhinea	HMG	16-Feb, 21:40
controlled,	4-0km W	Ticard	2	Duist		Small	16-Feb, 23:15-
39km NE of	4-6km NW	Heard	4	Burst		arms	23:16
Donetsk)	1 011111111	110410		20100		uning	17-Feb, 17:40-
,	8km W	Heard	5	Explosion	Undetermined	N/K	17:42
						Small	
	2-3km SE	Heard	2	Burst		arms	16-Feb, 18:49
	6-8km NE	Heard	2	Explosion	Undetermined	N/K	16-Feb, 19:25
	6-8km NE	Heard	1	Explosion	Undetermined	N/K	16-Feb, 20:45
	6-8km NE	Heard	3	Explosion	Undetermined	N/K	16-Feb, 20:58
	6-8km NE	Heard	1	Explosion	Undetermined	N/K	16-Feb, 21:19
	5-7km SW	Heard	1	Burst	Ondetermined	HMG	16-Feb, 21:27
	J-7KIII S W	Tiearu	1	Duist		Small	10-1-60, 21.27
	4-6km SE	Heard	1	Burst		arms	16-Feb, 21:33
	6-8km SE	Heard	1	Explosion	Undetermined	N/K	16-Feb, 21:42
Svitlodarsk	0-0km 5L	Ticard	1	Explosion	Ondetermined	10/1	16-Feb, 22:38-
(government-	6-8km NE	Heard	3	Explosion	Undetermined	N/K	22:40
controlled,	0 01111112	IIIuu		Lipiobion	Chartenninea	Small	16-Feb, 22:54-
57km NE of	3-5km SE	Heard	6	Burst		arms	23:00
Donetsk)	3-5km SW	Heard	1	Burst		HMG	16-Feb, 23:02
	3-5km SE	Heard	2	Explosion	Undetermined	N/K	17-Feb, 13:35
	4-5km SW	Heard	1	Explosion	Undetermined	N/K	17-Feb, 15:35
	2-3km SE	Heard	1	Burst	Chacterninea	HMG	17-Feb, 15:40
	2-5km 5E	Ticaru	1	Duist		Mortar	17-100, 15.40
						(type	
	2-3km SE	Heard	3	Explosion	Outgoing	N/K)	17-Feb, 15:40
	5-6km SW	Heard	1	Explosion	Undetermined	N/K	17-Feb, 16:10
	e onin e ti			Lipiobion	Chartenninea	1011	17-Feb, 18:00-
	3-5km SE	Heard	4	Explosion	Undetermined	N/K	18:07
About 500m				1			
NE of							
Kamianka							
(government-							
controlled,							
20km N of							
Donetsk)	3-4km NE	Heard	10	Burst		HMG	17-Feb, 09:42
SMM camera	3-4km E	Recorded	1	Projectile	In vertical flight		16-Feb, 22:20
on N edge of							
Popasna							
(government- controlled,							
69km W of							
Luhansk)	3-4km E	Recorded	1	Projectile	In vertical flight		16-Feb, 22:27
SMM camera		iceoideu	1	Tiojeeme	E to W (assessed as		10100, 22.27
in Zolote	4-5km SSE	Recorded	1	Projectile	inside the	N/K	16-Feb, 19:01
			· ·				,

(government- controlled,					disengagement area)		
60km W of Luhansk)					Assessed as outside the disengagement		
	2-4km E	Recorded	1	Explosion	area	N/K	17-Feb, 18:08
	15-20km W	Heard	37	Burst		HMG	16-Feb, 18:35- 19:09
Kadiivka (formerly	15-20km W	Heard	10	Explosion	Undetermined	N/K	16-Feb, 18:35- 19:09
Stakhanov,	15-20km	TT 1	70	D (IIMO	16-Feb, 19:03-
non- government-	NE 15-20km	Heard	70	Burst		HMG	20:00 16-Feb, 19:03
controlled, 50km W of	NE	Heard	29	Explosion	Undetermined	N/K	20:00
Luhansk)	15-20km W	Heard	44	Burst		HMG	16-Feb, 19:23 19:45
	15-20km W	Heard	7	Explosion	Undetermined	N/K	16-Feb, 19:23 19:45
N edge of Popasna (government- controlled, 69km W of Luhansk) E edge of	5-7km ESE	Heard	57	Explosion	Undetermined	N/K	17-Feb, 05:45 05:57
Popasna (government- controlled, 69km W of Luhansk)	1-3km S	Heard	90	Shot		Small	17-Feb, 13:55 14:12
1km N of Kalynove- Borshchuvate (non-							
government- controlled, 61km W of Luhansk)	5-6km NNW	Heard	7	Explosion	Undetermined	N/K	17-Feb, 09:15 09:30
1.5km SW of Molodizhne	5-6km NNW	Heard	5	Explosion	Undetermined	N/K	17-Feb, 09:40 09:55
(non- government-	4-5km WSW	Heard	33	Explosion	Undetermined	N/K	17-Feb, 15:00 15:15
controlled, 63km NW of Luhansk)	4-5km WSW	Heard	60	Shot		Small arms	17-Feb, 15:00 15:15
NE edge of Kruta Hora (non- government- controlled, 16km NW of							17-Feb, 09:50
Luhansk)	5-10km N	Heard	2	Explosion	Undetermined	N/K	09:52
N edge of Dachne (non-	2-4km NE	Heard	20	Burst		HMG	17-Feb, 09:56 10:07
government- controlled, 47km W of							17-Feb, 09:56
Luhansk) Zolote- 3/Stakhanovets	2-4km NE	Heard	10	Shot		HMG	10:07
(government- controlled, 61km W of Luhansk)	2-4km WNW	Heard	5	Explosion	Undetermined	Artillery (type N/K)	17-Feb, 10:33 10:40
2km S of Muratove (government-	4-5km S	Heard	2	Explosion	Undetermined	N/K	17-Feb, 10:52 10:57

	•	1	1	1	1	1	
controlled,							
51km NW of							
Luhansk)							
W edge of							
Zolote-							
2/Karbonit							
(government-					Undetermined		
controlled,					(assessed as outside	Artillery	
62km W of					the disengagement	(type	17-Feb, 11:21-
Luhansk)	2-4km SSW	Heard	10	Explosion	area)	N/K)	11:30
6km SW of				•			
Zhovte (non-							
government-							
controlled,							
17km NW of	1-2km					Small	17-Feb, 11:15-
Luhansk)	WNW	Heard	2	Burst		arms	11:16
6km SW of							
Zhovte (non-							
government-							
controlled,							
17km NW of	1-2km					Small	17-Feb, 11:15-
Luhansk)	WNW	Heard	1	Shot		arms	11:16
S edge of							
Zolote-							
5/Mykhailivka							
(non-							
government-					Undetermined		
controlled,					(assessed as outside		
58km W of	3-4km				the disengagement		17-Feb, 12:50-
Luhansk)	WSW	Heard	26	Explosion	area)	N/K	13:00



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).