	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 2019<sup>1</sup>

<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.

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	
(goverment- controlled, 25)      (goverment- controlled, 25)      (goverment- controlled, 25)      (goverment- controlled, 25)      (goverment- controlled, 26)        6-8km      6-8km      6-8km      6-8km      (goverment- controlled, 26)      (goverment- controlled, 26)      15-Feb, 19-10.        6-8km      6-8km      6-8km      6-8km      6-8km      (goverment- controlled, 37)      15-Feb, 19-20.        6-8km      6-8km      6-8km      6-8km      6-8km      10      Explosion      Undetermined      NK      15-Feb, 21-00.        7.8km      Heard      5      Explosion      Undetermined      NK      21-56        7.8km      Heard      8      Explosion      Undetermined      NK      21-30        7.8km      Heard      3      Burst      HMG      21-30      21-30        7.8km      Heard      3      Explosion      Undetermined      NK      15-Feb, 21-17        NNW      Heard      3      Explo		3-5km N	Heard	20	Explosion	Undetermined	N/K	
km NF of Mariupol)		<u>3-3Kiii N</u>	Ticalu	20	Explosion	Ondetermined	11/1	10.40
Mariupol)      3-5km N      Heard      4      Shot      arms      10.46        Artillery (NW      Heard      5      Explosion      Undetermined      NKK      15-Feb, 19:10- NKK        5-7km      Heard      3      Burst      Undetermined      NKK      12-92.0        5-7km      Heard      3      Burst      Undetermined      NKG      19-56.        6-8km      NNW      Heard      10      Explosion      Undetermined      NKG      19-56.        9werment- controlled, 39km NE of      5-7km NW      Heard      5      Explosion      Undetermined      NK      21-56.0        5-7km W      Heard      5      Explosion      Undetermined      NK      21-06        5-7km W      Heard      8      Explosion      Undetermined      NK      21-06        7-7km W      Heard      2      Explosion      Undetermined      NK      21-16        7-7km W      Heard      3      Explosion      Undetermined      NK      21-16        7-7km W      Heard      3      Explosion								
Svitlodarsk (government- controlled, 75.7km %)      Heard      5      Explosion      Undetermined Undetermined      Artillery N/K)      15-Feb, 19:10- 19:20        Horlivka (non- government- controlled, 39km NF of Donetsk)      6.8km      NW      Heard      10      Explosion      Undetermined      HMG      15-Feb, 19:40.        39km NF of Donetsk)      6.8km      NW      Heard      5      Explosion      Undetermined      N/K)      20:15        5-7km NW      Heard      5      Explosion      Undetermined      N/K)      20:15        5-7km NW      Heard      5      Explosion      Undetermined      N/K)      20:15        5-7km NW      Heard      8      Explosion      Undetermined      N/K)      21:10        5-7km W      Heard      8      Explosion      Undetermined      N/K)      21:11        7.8km      -      Artillery      (type      15-Feb, 21:10-      21:16        7.8km      Heard      3      Explosion      Undetermined      N/K      15-Feb, 19:21        7.8km      Heard      4      Explosion      Undetermined		2.51 N		4	<u>61</u>			,
6-8km	Mariupol)	3-5Km N	Heard	4	Snot			10:40
NNW      Heard      5      Explosion      Undetermined      NK      19:20        5-7km      NNW      Heard      3      Burst      Undetermined      HMG      15-Feb, 19:40        NNW      Heard      10      Explosion      Undetermined      NK      19:56        G-8km      NW      Heard      10      Explosion      Undetermined      NK      19:56        Outorelid,      NNW      Heard      5      Explosion      Undetermined      NK      19:56        Ontrolled,      NNW      Heard      5      Explosion      Undetermined      N/K      21:05        Softm NK of      5-7km NW      Heard      3      Burst      HMG      21:03        5-7km W      Heard      3      Burst      Undetermined      N/K      21:03        5-7km W      Heard      3      Explosion      Undetermined      N/K      15:Feb, 21:01-12        5-7km W      Heard      3      Explosion      Undetermined      N/K      15:Feb, 21:01-12        5-7km W      Heard      4		6-8km					2	15-Feb. 19:10-
NNW      Heard      3      Burst      Undetermined      HMG      15-Feb, 19:40        Horlivka (non government- controlled, 39km NE of Donetsk)      NNW      Heard      10      Explosion      Undetermined      N/K      15-Feb, 19:41- 19:56        5-7km NW      Heard      5      Explosion      Undetermined      N/K      21:05        5-7km NW      Heard      3      Burst      Undetermined      N/K      21:03        5-7km NW      Heard      3      Burst      HMG      15-Feb, 21:00- 21:03        5-6km NW      Heard      3      Burst      HMG      21:05        5-7km W      Heard      3      Burst      HMG      21:03        5-7km W      Heard      2      Explosion      Undetermined      N/K      21:10        7-8km      Heard      2      Explosion      Undetermined      N/K      15-Feb, 19:21        4-6km      Heard      1      Explosion      Undetermined      N/K      15-Feb, 19:44        4-6km      Heard      5      Explosion      Undetermined      N/K <t< td=""><td></td><td>NNW</td><td>Heard</td><td>5</td><td>Explosion</td><td>Undetermined</td><td></td><td></td></t<>		NNW	Heard	5	Explosion	Undetermined		
Horlivka (non- government- controlled, 39km NE of Donetsk)      6-8km NNW      Heard      10      Explosion      Undetermined      Artillery (type      15-Feb, 19-41- N/K)        5-7km NW      Heard      5      Explosion      Undetermined      N/K      21:05        5-7km NW      Heard      8      Explosion      Undetermined      N/K      21:05        5-6km NW      Heard      8      Explosion      Undetermined      N/K      21:05        5-6km NW      Heard      3      Burst      HMG      21:03      15-Feb, 21:01- 21:03        5-7km W      Heard      8      Explosion      Undetermined      N/K      21:16        7-8km      -      -      -      Artillery (type      15-Feb, 21:17- 15-Feb, 21:17- 15-Feb, 21:17- 15-Feb, 19:21        7-8km      Heard      2      Explosion      Undetermined      N/K      21:20        6-8km SW      Heard      4      Explosion      Undetermined      N/K      15-Feb, 19:41- 10        6-8km SW      Heard      5      Explosion      Undetermined      N/K      15-Feb, 19:42 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								
6-8km      Horitvka (non govermment- controlled, 39km NE of Donetsk)      6-8km      Heard      10      Explosion      Undetermined      N/K)      19:56        39km NE of Donetsk)      5-7km NW      Heard      5      Explosion      Undetermined      N/K      15-Feb, 20:00-        5-7km NW      Heard      3      Burst      Undetermined      N/K      15-Feb, 21:00-        5-6km NW      Heard      3      Burst      HMG      21:03        5-6km NW      Heard      3      Burst      HMG      21:03        5-7km W      Heard      3      Explosion      Undetermined      N/K)      21:16        7-8km      -      -      Artillery (type      15-Feb, 21:17-        NNW      Heard      3      Explosion      Undetermined      N/K      15-Feb, 19:21        7-8km      -      -      -      -      -      -      -        7-8km      Heard      4      Explosion      Undetermined      N/K      15-Feb, 19:21        7-8km      Heard      4      Explosion      Undetermined		NNW	Heard	3	Burst	Undetermined		15-Feb, 19:40
NNW      Heard      10      Explosion      Undetermined      N/K      19:56        Horlivka (non- controlled, 39km NE of Donetsk)      NNW      Heard      5      Explosion      Undetermined      N/K      13:Feb, 20:00.        39km NE of Donetsk)      5-7km NW      Heard      8      Explosion      Undetermined      N/K      21:05        5-6km NW      Heard      3      Burst      HMG      21:03      Arrillery (type      15:Feb, 21:01-        5-7km W      Heard      8      Explosion      Undetermined      N/K      21:06        7-8km      Heard      2      Explosion      Undetermined      N/K      12:20        6-8km SW      Heard      2      Explosion      Undetermined      N/K      15:Feb, 19:21        4-6km      WSW      Heard      1      Explosion      Undetermined      N/K      15:Feb, 19:24        6-8km SW      Heard      5      Explosion      Undetermined      N/K      15:Feb, 19:24        6-8km SW      Heard      6      Explosion      Undetermined      N/K      15:Feb, 19:45 </td <td></td> <td>6.9km</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>15 Eab 10:41</td>		6.9km					-	15 Eab 10:41
Horivka (non government- controlled, 39km NE of Donetsk)      6-8km      NWW      Heard      5      Explosion      Undetermined      N/K      15-Feb, 20:00- N/K        5-7km NW      Heard      3      Burst      Undetermined      N/K      15-Feb, 21:00- 21:03        5-7km NW      Heard      3      Burst      HMG      21:03        5-7km W      Heard      3      Burst      Artillery (type      15-Feb, 21:01- 21:03        5-7km W      Heard      3      Explosion      Undetermined      N/K      12:66        7-8km      -      -      Artillery (type      15-Feb, 21:11- N/K      12:20        7-8km      -      -      -      Artillery (type      15-Feb, 21:12- N/K        8      Feb, 30      Undetermined      N/K      15-Feb, 12:11- N/K      12:20        6-8km SW      Heard      4      Explosion      Undetermined      N/K      15-Feb, 19:41        4-6km      -      -      Explosion      Undetermined      N/K      15-Feb, 19:43        6-8km SW      Heard      4      Explosion      Undetermined			Heard	10	Explosion	Undetermined		
government- controlled, 39km NE of Donetsk)      6-8km NWW      Heard      5      Explosion      Undetermined      N/K)      20:15        39km NE of Donetsk)      5-7km NW      Heard      8      Explosion      Undetermined      N/K)      21:03        5-6km NW      Heard      3      Burst      HMG      21:03      15-Feb, 21:01- 15-Feb, 21:01- 15-Feb, 21:01- 15-Feb, 21:01- (type      15-Feb, 21:01- 15-Feb, 21:01- (type      15-Feb, 21:01- 15-Feb, 21:01- (type      15-Feb, 21:01- 15-Feb, 21:01- (type      15-Feb, 19:41        4-Km      4      Explosion      Undetermined      N/K      15-Feb, 19:44      4-Km        4-Km      4      Explosion      Undetermined      N/K      15-Feb, 19:44        4-Km      4      Explosion      Undeter	Horlivka (non-						/	
39km NE of Donetsk)      5-7km NW      Heard      8      Explosion      Undetermined      N/K      21:05        5-7km NW      Heard      3      Burst      HMG      15-Feb, 21:01- 21:03        5-7km W      Heard      3      Burst      HMG      15-Feb, 21:01- 21:03        5-7km W      Heard      8      Explosion      Undetermined      N/K      21:16        7-8km      -      -      Artillery (type      15-Feb, 21:17- N/K)      21:16        7-8km      -      -      -      Artillery (type      15-Feb, 21:17- N/K)        NNW      Heard      3      Explosion      Undetermined      N/K      15-Feb, 19:21        4-6km      -      -      -      Mark      15-Feb, 19:44        4-6km      -      -      -      -      15-Feb, 19:45        6-8km SW      Heard      1      Explosion      Undetermined      N/K      15-Feb, 19:45        6-8km SW      Heard      4      Explosion      Undetermined      N/K      15-Feb, 19:43        6-8km SW      Heard <td< td=""><td>government-</td><td></td><td></td><td></td><td></td><td></td><td>(type</td><td></td></td<>	government-						(type	
Donetsk)      5-7km NW      Heard      8      Explosion      Undetermined      N/K      21:05        5-6km NW      Heard      3      Burst      HMG      21:03      21:01        5-6km NW      Heard      3      Burst      Artillery      (type)      15-Feb, 21:01-        5-7km W      Heard      8      Explosion      Undetermined      N/K      21:16        5-7km W      Heard      2      Explosion      Undetermined      N/K      15-Feb, 21:17-        NNW      Heard      3      Explosion      Undetermined      N/K      15-Feb, 19:21        4-6km      -      -      -      -      -      -        4-6km      -      -      -      -      -      -        WSW      Heard      4      Explosion      Undetermined      N/K      15-Feb, 19:41        4-6km      -      -      -      -      -      -        WSW      Heard      5      Explosion      Undetermined      N/K      15-Feb, 19:50        4-6km SW	,	NNW	Heard	5	Explosion	Undetermined	N/K)	
Svitlodarsk (government- controlled, 57km NE of Donetsk)      Heard      3      Burst      HMG      15-Feb, 21:01- 21:03        5-6km NW      Heard      8      Explosion      Undetermined      Artillery (type      15-Feb, 21:11- 21:16        5-7km W      Heard      8      Explosion      Undetermined      N/K)      21:20        -8km SW      Heard      3      Explosion      Undetermined      N/K      21:20        6-8km SW      Heard      3      Explosion      Undetermined      N/K      15-Feb, 19:21        4-6km      -      -      -      N/K      15-Feb, 19:44        4-6km      -      -      -      N/K      15-Feb, 19:45        6-8km SW      Heard      5      Explosion      Undetermined      N/K      15-Feb, 19:48        4-6km      -      -      -      -      15-Feb, 20:07        4-6km SW      Heard      4      Explosion      Undetermined      N/K      15-Feb, 20:07        4-6km SW      Heard      3      Explosion      Undetermined      N/K      15-Feb, 20:07		5 71 NIW	Thornal	0	Employing	The determined	NI/IZ	
S-6km NWHeard3BurstHMG21:037-8kmNKHeard8ExplosionArtillery (typeNKK)21:167-8kmNWHeard2ExplosionUndeterminedN/K)21:207-8kmNWHeard2ExplosionUndeterminedN/K)21:206-8km SWHeard3ExplosionUndeterminedN/K15-Feb, 21:17-NWWHeard4ExplosionUndeterminedN/K15-Feb, 19:214-6kmWSWHeard5ExplosionUndeterminedN/K15-Feb, 19:426-8km SWHeard5ExplosionUndeterminedN/K15-Feb, 19:456-8km SWHeard4ExplosionUndeterminedN/K15-Feb, 19:504-6km SWHeard4ExplosionUndeterminedN/K15-Feb, 19:504-6km SWHeard4ExplosionUndeterminedN/K15-Feb, 20:02Svitlodarsk(governmentN/K15-Feb, 20:0215-Feb, 20:0215-Feb, 20:214-6km SWHeard3ExplosionUndeterminedN/K15-Feb, 20:1757km NE of15-Feb, 20:216-8km SWHeard3ExplosionUndeterminedN/K15-Feb, 20:224-6km SWHeard3ExplosionUndeterminedN/K15-Feb, 21:244-6km SWHeard3Explosion	Donetsk)	5-7Km N W	Heard	8	Explosion	Undetermined	IN/K	
Svillodarsk (government- controlled, 57km K of Donetsk)      Heard      8      Explosion      Undetermined Undetermined      Artillery (type      15-Feb, 21:17- (type        Svillodarsk (government- controlled, 57km NE of Donetsk)      Heard      2      Explosion      Undetermined      N/K      15-Feb, 21:17- (type        Stillodarsk (government- controlled, 57km NE of Donetsk)      Heard      3      Explosion      Undetermined      N/K      15-Feb, 19:42        4-6km      4      Explosion      Undetermined      N/K      15-Feb, 19:43        6-8km SW      Heard      1      Explosion      Undetermined      N/K      15-Feb, 19:44        4-6km      Heard      5      Explosion      Undetermined      N/K      15-Feb, 19:45        4-6km SW      Heard      4      Explosion      Undetermined      N/K      15-Feb, 19:45        4-6km SW      Heard      4      Explosion      Undetermined      N/K      15-Feb, 20:00        4-6km SW      Heard      2      Explosion      Undetermined      N/K      15-Feb, 20:07-        4-6km SW      Heard      3      Explosion      Undetermin		5-6km NW	Heard	3	Burst		HMG	
5-7km WHeard8ExplosionUndeterminedN/K)21:167-8km711KrilleryArtillery15-Feb, 21:17-NNWHeard2ExplosionUndeterminedN/K)21:204-6km4ExplosionUndeterminedN/K15-Feb, 19:214-6km4ExplosionUndeterminedN/K15-Feb, 19:444-6km4ExplosionUndeterminedN/K15-Feb, 19:456-8km SWHeard1ExplosionUndeterminedN/K15-Feb, 19:456-8km SWHeard5ExplosionUndeterminedN/K15-Feb, 19:454-6km4ExplosionUndeterminedN/K15-Feb, 19:504-6km SWHeard4ExplosionUndeterminedN/K15-Feb, 20:004-6km SWHeard6ExplosionUndeterminedN/K15-Feb, 20:074-6km SWHeard6ExplosionUndeterminedN/K15-Feb, 20:074-6km SWHeard3ExplosionUndeterminedN/K15-Feb, 20:074-6km SWHeard3ExplosionUndeterminedN/K15-Feb, 20:075/m NE ofHeard3ExplosionUndeterminedN/K15-Feb, 21:244-6km SWHeard3ExplosionUndeterminedN/K15-Feb, 21:244-6km SWHeard3ExplosionUndeterminedN/K15-Feb, 22:214-6km SEHeard3<							Artillery	
7-8km NNWHeard2ExplosionUndeterminedArtillery (type15-Feb, 21:17-NNWHeard3ExplosionUndeterminedN/K15-Feb, 19:216-8km SWHeard4ExplosionUndeterminedN/K15-Feb, 19:444-6kmWSWHeard1ExplosionUndeterminedN/K15-Feb, 19:456-8km SWHeard5ExplosionUndeterminedN/K15-Feb, 19:444-6kmWSWHeard4ExplosionUndeterminedN/K15-Feb, 19:504-6km SWHeard4ExplosionUndeterminedN/K15-Feb, 19:544-6km SWHeard6ExplosionUndeterminedN/K15-Feb, 20:024-6km SWHeard6ExplosionUndeterminedN/K15-Feb, 20:07-20vernment- controlled,5VildoarskHeard6ExplosionUndeterminedN/K15-Feb, 20:07-20vernment- controlled,4-6km SWHeard3ExplosionUndeterminedN/K15-Feb, 20:07-20vernment- controlled,4-6km SWHeard3ExplosionUndeterminedN/K15-Feb, 20:07-20vernment- controlled, <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
7.8km  NNW  Heard  2  Explosion  Undetermined  N/K  15-Feb, 21:17- 21:20    6-8km SW  Heard  3  Explosion  Undetermined  N/K  15-Feb, 19:21    4-6km		5-7km W	Heard	8	Explosion	Undetermined		21:16
NNWHeard2ExplosionUndeterminedN/K)21:206-8km SWHeard3ExplosionUndeterminedN/K15-Feb, 19:214-6kmWSWHeard4ExplosionUndeterminedN/K15-Feb, 19:444-6kmWSWHeard1ExplosionUndeterminedN/K15-Feb, 19:444-6kmWSWHeard1ExplosionUndeterminedN/K15-Feb, 19:454-6kmWSWHeard4ExplosionUndeterminedN/K15-Feb, 19:504-6km SWHeard2ExplosionUndeterminedN/K15-Feb, 20:004-6km SWHeard2ExplosionUndeterminedN/K15-Feb, 20:0720004-6km SWHeard3ExplosionUndeterminedN/K15-Feb, 20:1757km NE of15-Feb, 21:2415-Feb, 21:244-6km SEHeard3Burst-15-Feb, 23:4315-Feb, 23:433-5km SEHeard4Burst-15-Feb, 23:4315-Feb, 23:433-5km SEHeard2ExplosionUndeterminedN/K15-Feb, 23:433-5km SWHeard2ExplosionUndeterminedN/K15-Feb, 23:433-5km SW <td< td=""><td></td><td>7-8km</td><td></td><td></td><td></td><td></td><td></td><td>15-Feb 21.17-</td></td<>		7-8km						15-Feb 21.17-
6-8km SW      Heard      3      Explosion      Undetermined      N/K      15-Feb, 19:21        4-6km      WSW      Heard      4      Explosion      Undetermined      N/K      15-Feb, 19:44        4-6km      WSW      Heard      1      Explosion      Undetermined      N/K      15-Feb, 19:45        6-8km SW      Heard      5      Explosion      Undetermined      N/K      15-Feb, 19:48        4-6km      -      -      -      -      -      -        6-8km SW      Heard      4      Explosion      Undetermined      N/K      15-Feb, 19:50        4-6km SW      Heard      4      Explosion      Undetermined      N/K      15-Feb, 20:00        4-6km SW      Heard      6      Explosion      Undetermined      N/K      15-Feb, 20:02        5/km NE of      -      -      -      -      15-Feb, 20:07      15-Feb, 20:07        4-6km SW      Heard      3      Explosion      Undetermined      N/K      15-Feb, 20:07        75/km NE of      -      -      -			Heard	2	Explosion	Undetermined		
4-6km WSWHeard4ExplosionUndeterminedN/K15-Feb, 19:444-6km WSWHeard1ExplosionUndeterminedN/K15-Feb, 19:456-8km SWHeard5ExplosionUndeterminedN/K15-Feb, 19:484-6km WSWHeard4ExplosionUndeterminedN/K15-Feb, 19:504-6km SWHeard4ExplosionUndeterminedN/K15-Feb, 19:504-6km SWHeard4ExplosionUndeterminedN/K15-Feb, 19:504-6km SWHeard6ExplosionUndeterminedN/K15-Feb, 20:004-6km SWHeard2ExplosionUndeterminedN/K15-Feb, 20:024-6km SWHeard6ExplosionUndeterminedN/K15-Feb, 20:074-6km SWHeard6ExplosionUndeterminedN/K15-Feb, 20:1757km NE of Donetsk)15-Feb, 21:24-4-6km SEHeard3ExplosionUndeterminedN/K15-Feb, 23:104-6km SEHeard3BurstHMG15-Feb, 23:104-6km SEHeard2ExplosionUndeterminedN/K15-Feb, 23:124-6km SWHeard2ExplosionUndeterminedN/K15-Feb, 23:133-5km SEHeard2ExplosionUndeterminedN/K15-Feb, 23:156-8km NEHeard2ExplosionUndeterminedN/K15-Feb, 2					•			
4-6km WSWHeard1ExplosionUndeterminedN/K15-Feb, 19:456-8km SWHeard5ExplosionUndeterminedN/K15-Feb, 19:486-6km WSWHeard4ExplosionUndeterminedN/K15-Feb, 19:484-6km WSWHeard4ExplosionUndeterminedN/K15-Feb, 19:504-6km SWHeard4ExplosionUndeterminedN/K15-Feb, 20:004-6km SWHeard6ExplosionUndeterminedN/K15-Feb, 20:024-6km SWHeard6ExplosionUndeterminedN/K15-Feb, 20:024-6km SWHeard6ExplosionUndeterminedN/K15-Feb, 20:074-6km SWHeard3ExplosionUndeterminedN/K15-Feb, 20:175/km NE of Donetsk)4-6km SWHeard3ExplosionUndeterminedN/K15-Feb, 21:24-4-6km SWHeard3ExplosionUndeterminedN/K15-Feb, 22:244-6km SW16-Feb, 12:32-4-6km SWHeard2ExplosionUndeterminedN/K15-Feb, 23:1016-Feb, 12:03-6-8km NEHeard23ExplosionUndeterminedN/K15-Feb, 23:516-8km NEHeard23ExplosionUndeterminedN/K15-Feb, 23:516-8km SWHeard5ExplosionUndeterminedN/K15-Feb, 12:03-6-8km SWHeard5ExplosionUndetermined		4-6km			•			
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6-8km SWHeard5ExplosionUndeterminedN/K15-Feb, 19:484-6km4-6kmKKKKKKWSWHeard4ExplosionUndeterminedN/K15-Feb, 19:504-6km SWHeard6ExplosionUndeterminedN/K15-Feb, 20:004-6km SWHeard2ExplosionUndeterminedN/K15-Feb, 20:02Svitlodarsk4-6km SWHeard6ExplosionUndeterminedN/K15-Feb, 20:02Svitlodarsk4-6km SWHeard6ExplosionUndeterminedN/K15-Feb, 20:02Svitlodarsk4-6km SWHeard6ExplosionUndeterminedN/K15-Feb, 20:02Svitlodarsk4-6km SWHeard3ExplosionUndeterminedN/K15-Feb, 20:17Srkm KE of4-6km SEHeard3ExplosionUndeterminedN/K15-Feb, 21:24-4-6km SWHeard3BurstHMG21:2515-Feb, 23:43-3-5km SEHeard4BurstHMG23:4823:48-3-5km SWHeard23ExplosionUndeterminedN/K15-Feb, 23:516-8km NEHeard5ExplosionUndeterminedN/K15-Feb, 23:516-8km SWHeard5ExplosionUndeterminedN/K15-Feb, 17:35-4-6km SWHeard5ExplosionUndeterminedN/K16-Feb, 16:30-6-8km NEH			Hoord	1	Evolution	Undetermined	N/V	15 Eab 10:45
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	<sup>(</sup> U	-			·			
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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			
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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

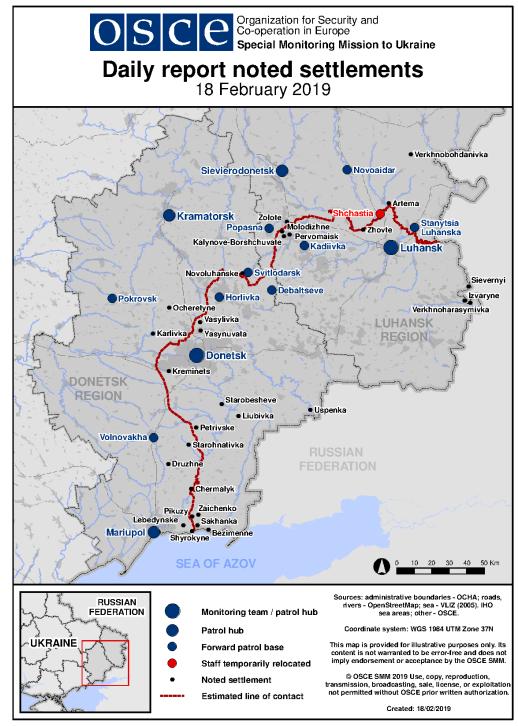
1.5km NB of Qaverament (goverament)      3-4km E 2-8km E 2-4km FSE      Recorded      2      Projectile      W to E      N/K      16-feb, 19-23        20km NEof Marinpol)      2-4km FSE      Recorded      3      Projectile      S to N      N/K      16-feb, 19-23        20km NEof Marinpol)      2-4km 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	
Government- Controlled, 20km Nkof      2-4km ESE      Recorded      3      Projectile      S to N      N/K      17-Feb, 01:39        20km Nkof      2-4km E      Recorded      6      Projectile      S to N      N/K      17-Feb, 04:16        SMM camera at entry-exit checkpoint in Mainosk (government- controlled, 24km NK      2-4km ESE      Recorded      1      Explosion      Undetermined      N/K      16-Feb, 20:58        SMM camera at entry-exit checkpoint in Marinka (government- controlled, 23km SW of      2-4km NR      Recorded      1      In vertical flight      N/K      16-Feb, 20:10        Marinka (government- controlled, 23km SW of      2-4km N      Recorded      1      flare      In vertical flight      N/K      16-Feb, 22:32        SMM camera at entry-exit controlled, 23km SK      2-4km N      Recorded      10      Projectile      Eto W      N/K      16-Feb, 1820        23km SK      Recorded      3      Projectile      E to W      N/K      16-Feb, 1821        23km SK      Recorded      3      Projectile      E to W      N/K      16-Feb, 19:11        23km SK      Recorded      3      Projectile </td <td></td> <td>3-5km E</td> <td>Recorded</td> <td></td> <td>5</td> <td>W to E</td> <td></td> <td></td>		3-5km E	Recorded		5	W to E		
Columination    2-4km E    Recorded    6    Projectile    S to N    N/K    17-Feb, 04:16      Maringol)    2-4km E    Recorded    6    Projectile    S to N    N/K    17-Feb, 04:16      Maringol)    2-4km EE    Recorded    1    Explosion    Undetermined    N/K    16-Feb, 20:58      SMM camera    1-2km NNE    Recorded    1    flare    In vertical flight    N/K    16-Feb, 20:10      Checkpoint in    Projectile    E to W    N/K    16-Feb, 20:10    Checkpoint in      Maringol    2-4km NRE    Recorded    1    flare    In vertical flight    N/K    16-Feb, 18:01      Ziskn SW of    2-4km N    Recorded    1    Projectile    E to W    N/K    16-Feb, 18:01      Ziskn SW of    2-4km N    Recorded    5    Explosion    Impact    N/K    16-Feb, 18:01      Ziskn SW controlled,    2-3km S    Recorded    5    Projectile    E to W    N/K    16-Feb, 19:11      Controlled,    2-3km S    Recorded    1    Projectile    E to W    N/K    16-Feb, 20:	ί,Ο	2-4km ESE				S to N		
Maringol)      2-4km E      Recorded      6      Projectile      S to N      N/K      17-Feb, 04:16        SMM camera at entry-exit (cockroint in Maiorsk (government- controlled, 24km NFE      Z-4km ESE:      Recorded      1      Explosion      Undetermined      N/K      16-Feb, 20:58        SMM camera at entry-exit chcckpoint in Marinka (government- controlled, 23km SV of Donetsk)      2-4km NRE      Recorded      1      Explosion      Undetermined      N/K      16-Feb, 20:10        Marinka (government- controlled, 23km SW of Donetsk)      2-4km N      Recorded      1      flare      In vertical flight      N/K      16-Feb, 20:10        Marinka (government- controlled, 23km SW of Donetsk)      2-4km N      Recorded      1      flare      In vertical flight      N/K      16-Feb, 18:01        1-2km S      Recorded      1      flare      In vertical flight      N/K      16-Feb, 18:01        2-3km S      Recorded      2      Explosion      Impact      N/K      16-Feb, 18:12        2-3km S      Recorded      2      Projectile      E to W      N/K      16-Feb, 19:11        Qoverument- controlled,      2-3km S      Reco					<b>y</b>			,
SMM camera at entry-exit checkpoint in Maiorsk (government- controlled, 23km SW 6    2-4km FSE    Recorded    1    Explosion    Undetermined    N/K    16-Feb, 20:58      SMM camera at entry-exit checkpoint in Marinka (government- controlled, 23km SW 6    1    Recorded    1    Illumination      Items / SMK camera at entry-exit controlled, 23km SW 6    1    Recorded    1    In vertical flight    N/K    16-Feb, 22:32      I-2km NR    Recorded    1    Projectile    E to W    N/K    16-Feb, 22:32      SMM camera at entry-exit controlled, 23km SK    Recorded    1    Projectile    E to W    N/K    16-Feb, 18:02      2-km SK    Recorded    5    Projectile    E to W    N/K    16-Feb, 18:12      2-km SK    Recorded    5    Projectile    E to W    N/K    16-Feb, 19:11      2-km NR    Recorded    5    Projectile    E to W    N/K    16-Feb, 19:11      2-km NR    Recorded    1    Projectile    E to W    N/K    16-Feb, 19:11      2-km NR    Recorded    1    Projectile    E to W    N/K    16-Feb, 19:11      2-km NR <td></td> <td>2-4km E</td> <td>Recorded</td> <td>6</td> <td>Projectile</td> <td>S to N</td> <td>N/K</td> <td>17-Feb. 04:16</td>		2-4km E	Recorded	6	Projectile	S to N	N/K	17-Feb. 04:16
checkpoint in Maiorsk (government- controlled, 45km NE of Donetsk) 2-4km NE Recorded 1 Explosion Undetermined N/K 16-Feb, 20:58 SMM camera at entry-exit 1-2km NNE Recorded 1 flare In vertical flight N/K 16-Feb, 20:00 (government- controlled, 23km SW of Donetsk) 2-4km N Recorded 1 flare In vertical flight N/K 16-Feb, 18:00 23km SW of Donetsk) 2-4km N Recorded 1 flare In vertical flight N/K 16-Feb, 18:00 32km SW of Donetsk) 2-4km N Recorded 1 flare In vertical flight N/K 16-Feb, 18:00 1-2km S Recorded 5 Projectile E to W N/K 16-Feb, 18:00 2-3km S Recorded 5 Projectile E to W N/K 16-Feb, 18:01 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 5 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 2 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, 19:11 2-3km S Recorded 1 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 1 Projectile E to W N/K 16-Feb, 19:11 2-3km S Recorded 1 Projectile WNW to ESE N/K 16-Feb, 12:20 3-2km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 17:59 2-4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:30 2-4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:30 2-4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:30 2-4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:30 2-4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:30 2-4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:30 2-4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:30 2-4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:30 2-4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:30 2-4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:30 2-4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:30 2-4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:30 2-4km NNE Recorded 1 Projectile WNW to ESE N/K				-				
Maiońsk (goverment- controlled, 45km NE of 20netsk)      2-4km RSE      Recorded      1      Explosion      Undetermined      N/K      16-Feb, 20:58        SMM canera at entry-exit entry-exit at entry-exit controlled,      1-2km NNE      Recorded      1      Ilumination      N/K      16-Feb, 20:10        Marinka (government- controlled,      1-2km NNE      Recorded      1      Ilumination      N/K      16-Feb, 20:10        Donetsk)      2-4km N      Recorded      10      Projectile      E to W      N/K      16-Feb, 20:10        SMM camera at entry-exit      1-2km S      Recorded      10      Projectile      E to W      N/K      16-Feb, 18:01        1-2km S      Recorded      5      Explosion      Impact      N/K      16-Feb, 18:12        2-km SR      Recorded      5      Projectile      E to W      N/K      16-Feb, 19:11        2-3km SR      Recorded      5      Projectile      E to W      N/K      16-Feb, 19:11        2-3km SR      Recorded      10      Projectile      E to W      N/K      16-Feb, 19:11        2-km NNE      Recorded <td< td=""><td>at entry-exit</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	at entry-exit							
(government- controlled, 43km NE of Donetsk)      2-4km ESE      Recorded      1      Explosion      Undetermined      N/K      16 Feb, 20:58        SMM Camera at entry-exit controlled, 23km SW of Donetsk)      1-2km NNE      Recorded      1      flare      In vertical flight      N/K      16-Feb, 20:10        Controlled, 23km SW of Donetsk)      2-4km N      Recorded      1      flare      In vertical flight      N/K      16-Feb, 22:32        Donetsky      2-4km N      Recorded      10      Projectile      E to W      N/K      16-Feb, 18:01        SMM camera at entry-exit checkpoint in Pyshchevyk (government- controlled, 23km SS      Recorded      5      Projectile      E to W      N/K      16-Feb, 18:02        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, 12:15        2-3km SS      Recorded      1      Projectile      E to W      N/K      16-Feb, 12:50								
Controlled, 45km NE of Donetsk)      2-4km ESE      Recorded      1      Explosion      Undetermined      N/K      16-Feb. 20:58        SMM camera at entry-exit checkpoint in Marinka (government- controlled, 23km SW of Donetsk)      1      Recorded      1      flare      In vertical flight      N/K      16-Feb. 20:58        SMM camera at entry-exit checkpoint in Pyshchevyk      1-2km NNE      Recorded      1      flare      In vertical flight      N/K      16-Feb. 22:32        1-2km S      Recorded      10      Projectile      E to W      N/K      16-Feb. 18:00        2-4km N      Recorded      10      Projectile      E to W      N/K      16-Feb. 18:01        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. 12:37        2-3km S      Recorded      1      Projectile      K to W      N/K      16-Feb. 17:54        2-4km NNE      Recorded								
45km NE of Donetsk)  2-4km NE E  Recorded  1  Explosion  Undetermined  N/K  16-Feb, 20:58    SMM camera at entry-exit checkpoint in Marinka (government- controlled, 23km SW of  1-2km NNE  Recorded  1  flare  In vertical flight  N/K  16-Feb, 20:10    Checkpoint in Marinka (government- controlled, 23km SW of  2-4km N  Recorded  1  In vertical flight  N/K  16-Feb, 22:32    SMM camera at entry-exit controlled, 23km SK  Recorded  10  Projectile  E to W  N/K  16-Feb, 18:00    SMM camera at entry-exit controlled, 23km SK  Recorded  5  Projectile  E to W  N/K  16-Feb, 18:01    23km SK  Recorded  5  Projectile  E to W  N/K  16-Feb, 19:11    23km SK  Recorded  2  Projectile  E to W  N/K  16-Feb, 19:11    23km SK  Recorded  1  Projectile  E to W  N/K  16-Feb, 19:11    23km SK  Recorded  1  Projectile  E to W  N/K  16-Feb, 19:11    23km SK  Recorded  1  Projectile  E to W  N/K  16-Feb, 12:57    23km SK  Recorded  1  Projectile  E to W  N/K  16-Feb, 17:54	<sup>(</sup> U							
Donetsky      2-4km ESE      Recorded      1      Explosion      Undetermined      N/K      16-Feb, 20:58        SMM camera at entry-exit checkpoint in Marinka (government- controlled, 23km SW of      1      Inare      In vertical flight      N/K      16-Feb, 20:58        Marinka (government- controlled, 23km SW of      N/K      16-Feb, 20:10      In vertical flight      N/K      16-Feb, 20:32        1-2km NNE      Recorded      1      flare      In vertical flight      N/K      16-Feb, 22:32        23km S      Recorded      1      flare      In vertical flight      N/K      16-Feb, 18:00        2-3km S      Recorded      2      Explosion      Impact      N/K      16-Feb, 18:21        2-3km S      Recorded      2      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, 1								
SMM camera at entry-exit checkpoint in (government- controlled, 23km SW of    1-2km NNE    Recorded    1    flare    In vertical flight    N/K    16-Feb, 20:10      Marinka (government- controlled, 23km SW of    2-4km N    Recorded    1    flare    In vertical flight    N/K    16-Feb, 20:10      SMM camera at entry-exit controlled, 23km SK    1-2km S    Recorded    10    Projectile    E to W    N/K    16-Feb, 18:01      2-3km SK    Recorded    5    Projectile    E to W    N/K    16-Feb, 18:01      2-3km SK    Recorded    5    Explosion    Impact    N/K    16-Feb, 19:11      2-3km SK    Recorded    1    Projectile    E to W    N/K    16-Feb, 19:11      2-3km SK    Recorded    1    Projectile    E to W    N/K    16-Feb, 19:11      2-3km SK    Recorded    10    Projectile    E to W    N/K    16-Feb, 19:11      2-3km SK    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		2-4km ESE	Recorded	1	Explosion	Undetermined	N/K	16-Feb. 20:58
checkpiont in Marinka (government- controlled, 23km SW of Donetsk) 1-2km S Recorded 1 flare 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 5 Projectile E to W N/K 16-Feb, 18:22 2-3km S Recorded 3 Projectile E to W N/K 16-Feb, 18:22 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, 19:12 2-3km S Recorded 1 Projectile E to W N/K 16-Feb, 19:13 2-3km S Recorded 1 Projectile E to W N/K 16-Feb, 19:14 2-3km NR Recorded 1 Projectile WNW to ESE N/K 16-Feb, 17:59 2-4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 17:59 2-4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 17:59 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 2-4km 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 (government- controlled, 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, 18:12 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, 18:20 2-4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:21 2-4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:25 3-4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:25 3-4km NNE Recorded 1 Projectile WNW to ESE N/K 16-Feb, 18:25 3-4km NNE Recorded 5 Projectile WNW to ESE N/K 16-Feb, 18:20 3-4km NNE Recorded 5 Projectile WNW to ESE N/K 16-Feb, 18:21 2-4km NNE Recorded 5 Projectile WNW to ESE N/K 16-Feb, 18:20 3-4km NN	/	2 1111 202	10001000		•		1.011	10100, 20100
Marinka (government- controlled, 23km SW of Donetsk)      2-4km N      Recorded      1      Illumination flare      In vertical flight      N/K      16-Feb. 22:32        1-2km S      Recorded      1      Projectile      E to W      N/K      16-Feb. 18:01        2-3km S      Recorded      5      Projectile      E to W      N/K      16-Feb. 18:01        2-3km S      Recorded      2      Explosion      Impact      N/K      16-Feb. 18:01        2-3km S      Recorded      3      Projectile      E to W      N/K      16-Feb. 18:01        2-3km S      Recorded      3      Projectile      E to W      N/K      16-Feb. 19:11        2-3km SE      Recorded      2      Projectile      E to W      N/K      16-Feb. 19:11        2-3km SE      Recorded      1      Projectile      E to W      N/K      16-Feb. 19:11        2-4km NNE      Recorded      1      Projectile      WN to ESE      N/K      16-Feb. 18:06        2-4km NNE      Recorded      1      Projectile      WNW to ESE      N/K      16-Feb. 18:10	at entry-exit	1-2km NNE	Recorded	1	flare	In vertical flight	N/K	16-Feb, 20:10
(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							
Controlled, 23km SW of Donetsk)      2-4km N      Recorded      1      Illumination      In vertical flight      N/K      16-Feb, 12:32        SMM camera at entry-exit checkpoint in Pyshchevyk (government- controlled, 23km SS      Recorded      5      Projectile      E to W      N/K      16-Feb, 18:00        2-3km SS      Recorded      2      Explosion      Impact      N/K      16-Feb, 19:11        2-3km SS      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      2      Projectile      E to W      N/K      16-Feb, 19:11        2-3km S      Recorded      1      Projectile      E to WSW      N/K      16-Feb, 20:05        2-3km SR      Recorded      1      Projectile      EN to WSW      N/K      16-Feb, 12:57        2-4km NNE      Recorded      1      Projectile      WNW to ESE      N/K      16-Feb, 17:54        2-4km NNE      Recorded      1      Projectile      WNW to ESE      N/K								
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.			
Mariupol)2-3km SSERecorded10ProjectileENE to WSWN/K16-Feb, 21:572-3km SRecorded2ProjectileE to WN/K16-Feb, 17:542-3km NERecorded1ProjectileWNW to ESEN/K16-Feb, 17:542-4km NNERecorded1ProjectileWNW to ESEN/K16-Feb, 17:542-4km NNERecorded2ProjectileWNW to ESEN/K16-Feb, 18:062-4km NNERecorded2ProjectileWNW 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, 18:2020km E of Mariupol)2-4km NNERecorded1ProjectileWNW to ESEN/K16-Feb, 18:212-4km NNERecorded1ProjectileWNW to ESEN/K16-Feb, 18:222-4km NNERecorded2ProjectileWNW to ESEN/K16-Feb, 18:142-4km NNERecorded7ProjectileWNW to ESEN/K16-Feb, 18:172-4km SERecorded5ProjectileWNW to ESEN/K16-Feb, 18:122-4km NNERecorded5ProjectileWNW to ESEN/K16	,	-		-	ě.			
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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
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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
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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
				<b></b>	<b>TT</b> 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 regions<sup>2</sup>

<sup>&</sup>lt;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).