Appendix I

German Order of Battle July 4th 1943

```
Army Group Center (Field Marshal Günther von Kluge)
2nd PzA (Lt Gen Rudolf Schmidt)
   55th IC (General Erich Jaschke)
       321st ID
       339th ID
       110th ID
       296th ID
       134th ID
       5th PzD (reserve)
   53rd IC (General Friedrich Gollwitzer)
       211th ID
       293rd ID
       25th PzGD
       208th ID
       112th ID
   35th IC (General Lothar Rendulic)
       34th ID
       56th ID
       262nd ID
       299th ID
       36th ID
OKH Reserve
       8th PzD
       305th SD
       707th SD
9th A (Col General Walter Model)
   20th IC (General Freiherr von Roman)
       45th ID
       72nd ID
       137th ID
       251st ID
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46th PzC (General Hans Zorn)

```
7th ID
       31st ID
       102nd ID
       258th ID
   47th PzC (General Joachim Lemelsen)
       2nd PzD
       9th PzD
       20th PzD
       6th ID
   41st PzC (General Josef Harpe)
       18th PzD
       86th ID
       292nd ID
   23rd IC (General Johannes Friessner)
       216th ID
       383rd ID
       78th AD
21st Panzer Brigade
sPzAbt 505
sPzAbt 653
sPzAbt 654
sPzAbt 656
StuGAbt 177
StuGAbt 244
StPzAbt 216
StuGAbt 909
Reserve
   10th PzGD
   12th PzD
   4th PzD
Army Group South (Field Marshal Erich von Manstein)
4th PzA (Col General Hermann Hoth)
   52nd IC (General Eugen Ott)
       57th ID
       255th ID
       332nd ID
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48th PzC (General Otto von Knobelsdorff)
       3rd PzD
       11th PzD
       PzGD Grossdeutschland
       167th ID
   2nd SS PzC (General Paul Hausser)
       1st SS PzGD Leibstandarte Adolf Hitler
       2nd SS PzGD Das Reich
       3rd SS PzGD Totenkopf
Army Detachment Kempf (General Werner Kempf)
   3rd PzC (General Hermann Breith)
       6th PzD
       7th PzD
       19th PzD
       168th ID
       198th ID (attached)
   11th IC (General Erhard Raus)
       106th ID
       320th ID
   42nd IC (General Mattenklott)
       39th ID
       161st ID
       282nd ID
1st Werfer Regiment
52nd Werfer Regiment
54th Werfer Regiment
4th Anti-aircraft Regiment
StuGAbt 905
StuGAbt 393
sPzAbt 503
Luftwaffe
Luftflotte 4 (General Otto Dessloch)
   8th Flieger Corps (Maj General Hans Seidemann) - South
Luftflotte 6 (Col General Ritter von Greim)
   1st Flieger Division (Lt General Deichmann) - North
```

Abbreviations

AD Assault Division
IC Infantry Corps
ID Infantry Division
PzA Panzer Army

PzA Panzer Army
PzC Panzer Corps
PzD Panzer Division

PzGD Panzer Grenadier Division

SD Security Division

sPzAbt Heavy Tank Detachment StPzAbt Assault Panzer Detachment StuGAbt Assault Gun Detachment

Appendix II

Soviet Order of Battle July 4th 1943

```
Bryansk Front (Lt General M.M. Popov)
3rd Army (Lt General A. V. Gorbatov)
   41st RC (Maj General V. K. Urbanovich)
       235th RD
       308th RD
       380th RD
   269th RD
   283rd RD
   342nd RD
   82nd Separate TR
   114th Separate TR
15th Air Army (Lt General N. F. Naumenko)
61st Army (Lt General P. A. Belov)
   9th GRC (Maj General A. A. Boreiko)
       12th GRD
       76th GRD
       77th GRD
   110th RD
   336th RD
   356th RD
   415th RD
   68th TB
   36th TR
63rd Army (Lt General V. I. Kolpakchi)
   5th RD
   41st RD
   129th RD
   250th RD
   287th RD
   348th RD
   397th RD
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Central Front (General K. K. Rokossovsky)
2nd Tank Army (Lt General Rodin)
   3rd TC (Maj General M. D. Sinenko)
   16th TC (Maj General V. E. Grigorev)
   9th TC (attached) (Maj General S. I. Bogdanov)
   19th TC (attached) (Maj General I. D. Vasilev)
13th Army (Lt General N. P. Pukhov)
   17th GRC (Lt General A. L. Bondarev)
       6th GRD
       70th GRD
       75th GRD
   18th GRC (Maj General I. M. Afonin)
       2nd GAD
       3rd GAD
       4th GAD
   15th RC (Maj General I. I. Liudnikov)
       8th RD
       74th RD
       148th RD
   29th RC (Maj General A. N. Slyshkin)
       15th RD
       81st RD
       307th RD
16th Air Army (Lt General Sergey Rudenko)
   3rd Bombing Air Corps
   6th Air Corps
   6th Fighter Air Corps
48th Army (Lt General P. L. Romanenko)
   42nd RC (Maj General K. S. Kolganov)
       16th RD
       202nd RD
       399th RD
       73rd RD
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137th RD

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143rd RD
       170th RD
   45th Separate TR
   193rd Separate TR
   299th Separate TR
60th Army (Lt General I. D. Chernyakhovsky)
   24th RC (Maj General N. I. Kiriukhin)
       42nd RD
       112th RD
       129th RB
   30th RC (Maj General G. S. Lazko)
       121st RD
       141st RD
       322nd RD
   55th RD
   150th TB
65th Army (Lt General P. I. Batov)
   18th RC (Maj General I. I. Ivanov)
       69th RD
       149th RD
       246th RD
   27th RC (Maj General F. M. Cherokmanov)
       60th RD
       115th RB
       193rd RD
   37th GRD
   181st RD
   194th RD
   354th RD
70th Army (General Galanin)
   28th RC (Maj General A. N. Nechaev)
       132nd RD
       211th RD
       280th RD
       102nd RD
       106th RD
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140th RD
       162nd RD
       240th Separate TR
       251st Separate TR
       259th Separate TR
Voronezh Front (General N. F. Vatutin)
1st Tank Army (Lt Gen Katukov)
   3rd MC (Maj General S. M. Krivoshein)
       1st MB
       3rd MB
       10th MB
       1st GTB
       17th TR
       49th TB
   6th TC (Maj General A. L. Getman)
       22nd TB
       112th TB
       200th TB
       6th MRB
   31st TC (Maj General D. K. Chernienko)
       100th TB
       237th TB
       242nd TB
   5th GTC (Maj General A. G. Kravchenko)
       20th GTB
       21st GTB
       22nd GTB
       6th GMRB
       48th TR
2nd Air Army (Lt General S. A. Krasovsky)
   1st Bombing Air Corps (Col I. S. Polbin)
   1st Assault Air Corps (Lt General V. G. Gribakin)
   4th Fighter Air Corps (Maj General I. D. Podgorny)
   5th Fighter Air Corps (Maj General D. P. Galunov)
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6th Guards Army (Lt General I. M. Chistiakov)

22nd GRC (Maj General N. B. Ibiansky)

```
67th GRD
       71st GRD
       90th GRD
   23rd GRC (Maj General P. P. Vakhrameev)
       51st GRD
       52nd GRD
       375th RD
   89th GRD
   96th TB
   230th TR
   245th TR
   184th RD
   219th RD
   31st AAB
7th Guards Army (Lt General M. S, Shumilov)
   24th GRC (Maj General N. A. Vasilev)
       15th GRD
       36th GRD
       72nd GRD
   25th GRC (Maj General G. B. Safiullin)
       73rd GRD
       78th GRD
       81st GRD
   213th RD
   27th GTB
   201st TB
   148th TR
   167th TR
   262nd TR
38th Army (Lt General Chibisov)
   50th RC (Maj General S. S. Martirosian)
       167th RD
       232nd RD
       340th RD
   51st RC (Maj General P. P. Andreenko)
       180th RD
       240th RD
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204th RD
   180th TB
   192nd TB
40th Army (Lt General K. S. Moskalenko)
   47th RC (Maj General A. S. Griaznov)
       161st RD
       206th RD
       237th RD
   52nd RC (Lt General F. I. Perkhorovich)
       100th RD
       219th RD
       309th RD
   184th RD
   86th TB
   59th TR
   60th HTR
69th Army (Lt Gen V. D. Kriuchenkin)
   48th RC (Maj General Z. Z. Rogozny)
       107th RD
       183rd RD
       305th RD
   49th RC (Maj General G. P. Terentev)
       111th RD
       270th RD
   35th GRC (Maj Gen S. G. Goriachev)
       92nd GRD
       94th GRD
       93rd GRD
   81st GRD
   89th GRD
```

Southwestern Front (General R. I. Malinovsky)

17th Air Army (Lt General V. A. Sudets)

Steppe Front (Col General Konev)

4th Guard Army (Lt General G. I. Kulik)

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20th RC (Maj General N. I. Biriukov)
       5th GAD
       7th GAD
       8th GAD
   21st RC (Maj General P. I. Fomenko)
       68th GRD
       69th GRD
       80th GRD
   3rd GTC
       3rd GTB
       18th GTB
       19th GTB
       2nd GMRB
5th Air Army (Lt General Goriunov)
   7th Air Corps
   8th Air Corps
   3rd Fighter Corps
   7th Fighter Air Corps
5th Guards Army (Lt General A. S. Zhadov) (originally Steppe Front)
   32nd GRC (Maj General A. I. Rodinstev)
       13th GRD
       66th GRD
       6th GAD
   33rd GRC (Maj General I. I. Popov)
       95th GRD
       97th GRD
       9th GAD
       42nd GRD (attached)
   10th TC (Maj General G. V. Burkov)
       178th TB
       183rd TB
       186th TB
       11th MRB
5th Guards Tank Army (Lt General P. A. Rotmistrov) (originally Steppe Front)
   5th GMC (Maj General B. M. Skvortsov)
       10th GMB
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11th GMB
       12th GMB
       24th GTB
       55th GTR
   29th TC (Maj General I. F. Kirichenko)
       25th TB
       31st TB
       32nd TB
       53rd MRB
   18th TC (Maj General B. S. Bakharov)
       110th TB
       170th TB
       181st TB
       32nd MRB
       36th GTR
   2nd TC (attached) (Maj General A. F. Popov)
       26th TB
       99th TB
       169th TB
       58th MRB
   2nd GTC (attached) (Maj General A. S. Burdeiny)
       4th GTB
       25th GTB
       26th GTB
       4th GMRB
       47th GTR
Southwestern Front (General R. I. Malinovsky)
17th Air Army (Lt General V. A. Sudets)
Western Front (Col General V. D. Sokolovsky)
1st Air Army (Lt General M. M. Gromov)
50th Army (Lt General I. V. Bolden)
   38th RC (Maj General A. D. Tereshkov)
       17th RD
       326th RD
       413th RD
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64th RD
   212th RD
   324th RD
   196th TB
11th Guards Army (Lt Gen I. K. Bagramyan)
   8th GRC (Maj GeneralP.F. Malyshev)
       11th GRD
       26th GRD
       83rd GRD
   16th GRC (Maj General A. V. Lapshov (initially))
       1st GRD
       16th GRD
       31st GRD
       169th RD
   36th GRC (Maj General A. S. Ksenefontov)
       5th GRD
       18th GRD
       84th GRD
   108th RD
   217th RD
   10th GTB
   29th GTB
   43rd GTB
Abbreviations
AAB
         Anti-Aircraft Brigade
         Guards Airborne Division
GAD
GMRB
         Guards Mechanized Rifle Brigade
GRC
         Guards Rifle Corps
GRD
         Guards Rifle Division
GTB
         Guards Tank Brigade
         Guards Tank Regiment
GTR
         Heavy Tank Regiment
HTR
```

Mechanized Brigade

Rifle Brigade

Rifle Corps

Mechanized Rifle Brigade

MB

RB RC

MRB

49th RD

RD	Rifle Division
TB	Tank Brigade
TC	Tank Corps
TD	Tank Division
TR	Tank Regiment

Appendix III German Armored Strengths

Tigers		Approx number combat-ready	
9th Army	sPzAbt 505	45	
	21st Pz Briga	31	
4th PzA	13th Company, 1st	t SS PzR	13
	8th Company, 2nd	l SS PzR	14
	9th Company, 3rd	SS PzR	15
	13th Company, G	GD PzR	14
3rd PzC	sPzAbt 503		45
Total Tigers			177
Mark IIIs & IVs		III	IV
9th Army	2nd PzD	40	66
	4th PzD	15	86
	5th PzD (reserve)	26	76
	8th PzD (reserve)	59	28
	9th PzD	38	44
	12th PzD	36	41
	18th PzD	31	38
	20th PzD	95	56
	21st PzB	8	7
4th PzA			
	3rd PzD	59	24
	11 PzD	79	26
	GD	42	68
	LAH	13	76
	DR	72	33
	TK	63	52
3rd PzC			
	6th PzD	65	28
	7th PzD	62	38

	19th PzD	38	38
Total Mk IIIs & IVs	(includes working only but excludes obsoletes)	841	825
StuGs	(Includes StuGs and all other Assault Gun types)		
9th Army	21st PzB 41st PzC		36
	StuGAbt 177 41st PzC		36
	StuGAbt 185 23rd IC		36
	StuGAbt 189 23rd IC		36
	StPzAbt 216 41st PzC		45
	StuGAbt 244 41st PzC		31
	StuGAbt 245 47th PzC	,	36
	312th Pz Co 47th PzC		22
	sPzAbt 653 41st PzC		55
	sPzAbt 654 41st PzC		55
	StuGAbt 904 47th PzC		36
	StuGAbt 909 46th PzC		31
4th PzA	StuGAbt 911 48th PzC		31
	GD 48th PzC	3	35
	LAH 2nd SS PzC		35
	DR 2nd SS PzC		34
	TK 2nd SS PzC		35
3rd PzC	StuGAbt 228 3rd PzC		31
	StuGAbt 905 Corps Raus		32
	StuGAbt 393 Corps Raus		12
Total StuGs			700

Panthers		
4th PzA	GD (working panzers)	192
	Total Panthers	192
T34s	(captured)	
4th PzA	DR	26
	Total T34s	26
Grand Total for b	oth salients	2,761
	t 250 panzers were destroyed and best case scenario.	

Appendix IV **Soviet Armored Strengths**

Primary Fronts		Tanks	Assault Guns
Central Front			
2nd GA		455	21
13th Army		258	12
48th Army		124	50
60th Army		65	0
65th Army		120	0
70th Army		120	0
9th TC		165	0
19th TC		168	0
Front Reserves		187	20
Total		1,662	103
Voronezh Front			
1st TA	Includes 3rd MC, 6th TC, 31st TC	625	21
6th GA		134	20
7th GA		216	30
38th Army		106	0
40th Army		113	0
2nd TC		168	0
2nd GTC		200	0
5th GTC		200	0
10th TC		165	21
5th GTA	(available on 7/12)	625	37
Total		2,552	129
	1600 tanks from the primary fronts unrepairable by the end of 7/12.		
Peripheral Front			
Western Front			
4th TA		624	28
11th GA		268	12
50th Army		75	12
1st TC		168	16
5th TC		168	16

Front Reserves	350	0
Total	1,653	84
Bryansk Front		
3rd Army	88	12
3rd GTA	695	32
61st Army	98	12
63rd Army	48	12
1st GTC	205	0
20th TC	168	16
Front Reserves	150	36
Total	1,452	120
Steppe Front		:
27th Army	92	0
53rd Army	78	0
4th GTC	168	21
1st MC	204	0
Total	542	21
Peripheral sub- totals	3,647	225
Grand Totals of Primary and Supporting Fronts	6,199	354

Appendix V

AFV Technical Data

German					_			
Vehicle	Weight (tons)	LWH (feet)	Main Gun (typical)	Ammo Load	Machine Gun	Max Armor (mm)	Max Speed (MPH)	Range (Miles)
Pz III	25	18' 1 x" 9' 8" x 8'2"	50mm L60	78	7.92mm	50	25	90
Pz IV	26	19' 4" x 10' 9" x 8' 9"	75mm L48	87	7.92mm	50	24	123
Panther	50	22'7" x 11'3" x 10'2"	75mm L70	79	7.92mm	80	28	123
Tiger	63	20'.4" x 12'.3" x 9' 3"	88mm L56	92	7.92mm	102	22	72
StuG III	26	17'5" x 9'5" x 6'4"	75mm L48		None	50	25	95
StuG III	26	17'5" x 9'5" x 6'4"	105mm L28		None	50	25	95
StuG IV	30		150mm L12		None	100	25	123
Marder (III)	12		75mm L46	41	None	35	28	150
Hornisse	26		88mm L71	40	None	30	25	132
Ferdinand	72		88mm L71	44	None	200	12	92
Wespe	12		105mm leFH	32	None	20	25	85
Hummel	25		150mm 18L30	20	None	20	25	132
Soviet	<u> </u>							
Vehicle	Weight (tons)	LWH (feet)	Main Gun (typical)	Ammo Load	Machine Gun	Max Armor (mm)	Max Speed (MPH)	Range (Miles)
T34	34	19'5" x 9'10" x 8'	76.2mm	100	7.62mm (2)	70	33	185
KV1	52	21'11" x 10'10" x 8'10"	76.2mm L42	1/4		120	17	155
T70	10	14'1" x 7'7" x 6'8"	45mm	94	7.62mm	60	28	155
SU76	10		76mm	60	None	35	28	180
SU122	34	21'10" x 10'6" x 8'8"	122mm M30		None	45	33	92
SU152	46		152mm		None	60	27	75

Appendix VI

Ground forces strengths as of July 4th 1943

German	Approximate Totals
Army Group South	
4th PzA	223,900
Army Kemp	126,000
Total	349,900
Army Group Center	
9th Army	335,000
2nd Army	96,000
Totals	431,000
Grand total	780,900
Soviets	
Voronezh Front	Estimated Totals
38th Army	60,000
40th Army	77,000
6th GA	79,000
7th GA	76,000
69th Army	52,000
1st TA	40,000
35th GRC	35,000
Front Reserve	204,000
Total	623,000
Central Front	
48th Army	84,000
13th Army	114,000
70th Army	96,000
65th Army	100,000

60th Army		96,000
2nd TA		37,000
Front Reserves		184,000
Total		711,000
Steppe Front		573,000
Western Front	(estimate)	277,000
Bryansk Front	(estimate)	400,000
Southwestern Front		700,000
Totals		1,950,000
This total represents forces deplo Kursk, Orel and Bryansk for July shrinks to 1.9 million for just the and direct reinforcements from ot		
Grand total		3,284,000

Appendix VII

Aviation Strengths

(Includes operational aircraft only as of July 4th 1943)

German	8			
		Luftflotte 6	Fliegerkorps 8	Distant Airfields
Ju 88		134	72	92
Ju 52		167	13	
He 111		0	221	152
Ju 87		0	242	166
Fw 190		0	105	186
Hs 129		0	79	
Bf 109		0	184	31
Misc*	·	0	63	99
Sub Totals		301	979	726
Grand Total			1,280	2,006
Soviet			78	
>	2nd VA	16th VA	17th VA	
Fighters	389	455	163	
Sturmoviks	276	241	239	
Bombers	206	334	136	
Reconnaissance	10	4	0	
Sub Totals	881	1034	538	
Grand Total			2,453	

^{*} includes non combat aircraft

Appendix VIII

Casualties

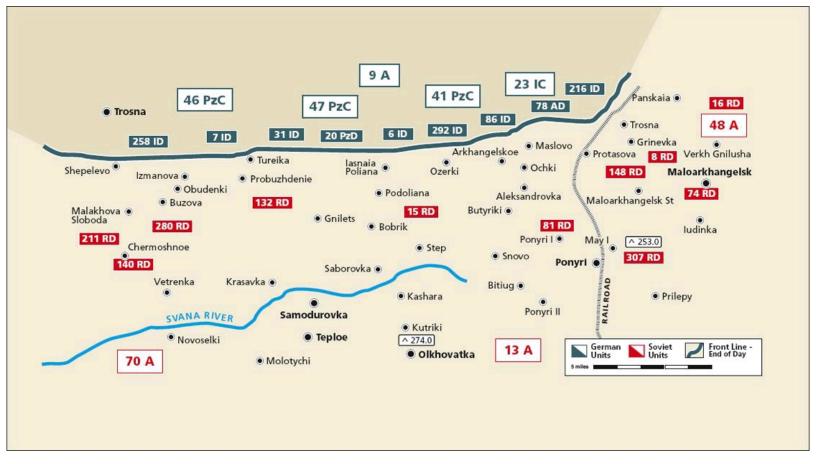
German			8						
	4th PzA			Corps Kempf			9th Army		
	Killed	Wounded	Missing	Killed	Wounded	Missing	Killed	Wounded	Missing
From 7/5 to 7/12	2,011	10,123	253	1,912	9,517	578	3,977	18,005	851
From 7/13 to 7/31	1,689	7,460	637	1,496	7,528	511	2,294	9,321	1,115
Totals	3,700	17,583	890	3,408	17,045	1,089	6,271	27,326	1,966
Grand total	79,278								
Soviet			8						
Soviets casualties are estimated at 178,000									
Estimated 5th GTA tank losses on 7/12									
	8	Participated	Lost	2		8			4
29th TC		153	77						*
18th TC		84	35			*			*
2nd GTC		54	29			8			0
2nd TC		22	11						
1446 Self Propelled Art Reg		19	14						
5th GMC		105	73						
Totals	8	437	239						
Damaged but repairable tanks are estimated at an additional 160 The 2nd SS PzC have estimates that range up to 153 panzers destroyed or damaged.									

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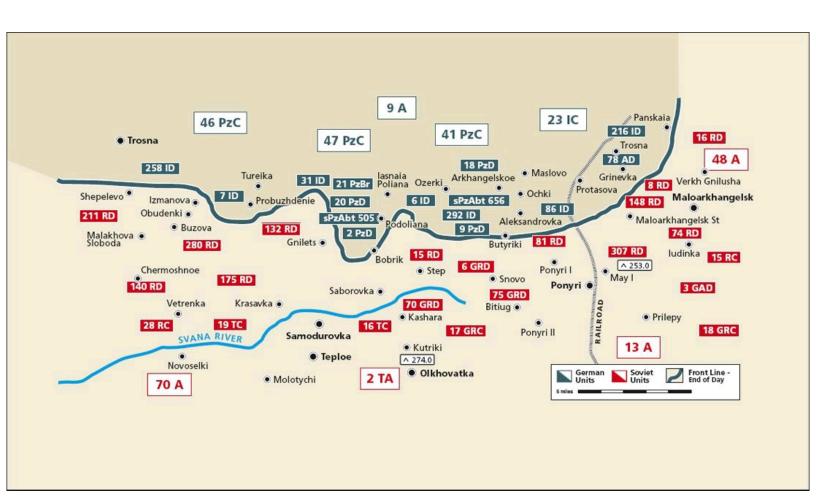
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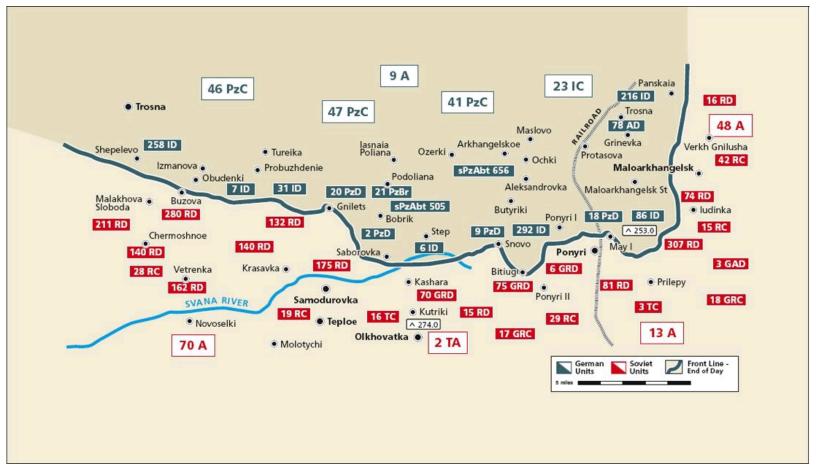
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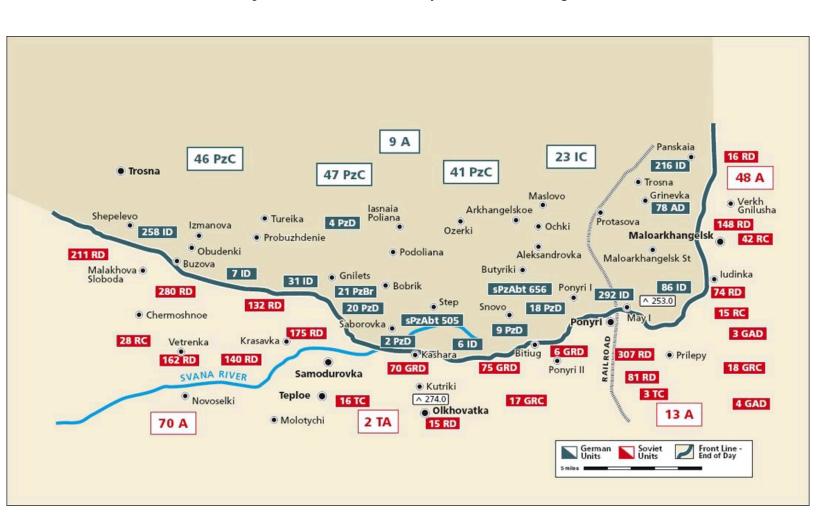
Map 1 Northern Salient, July 4th 1943 – midnight.



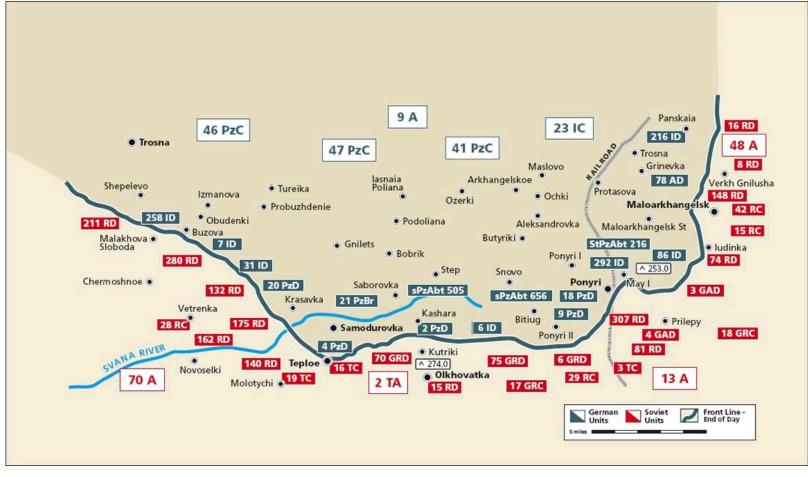
Map 2 Northern Salient, July 5th 1943 – midnight.



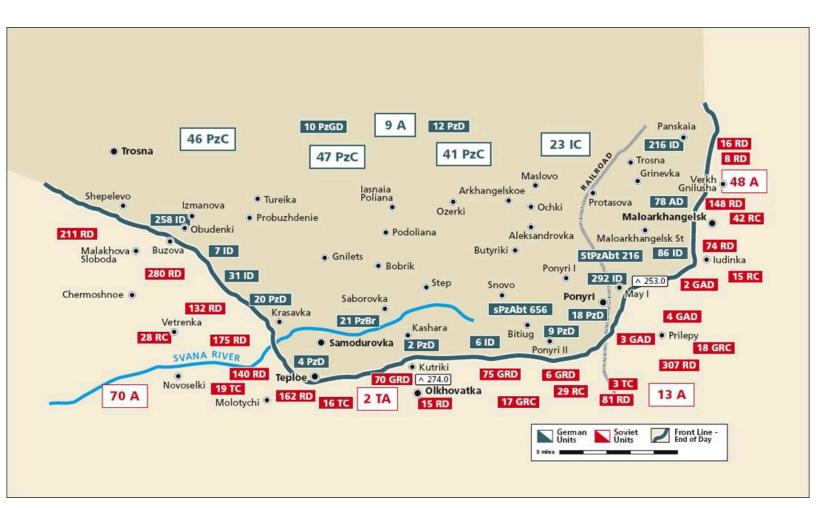
Map 3 Northern Salient, July 6th 1943 – midnight.



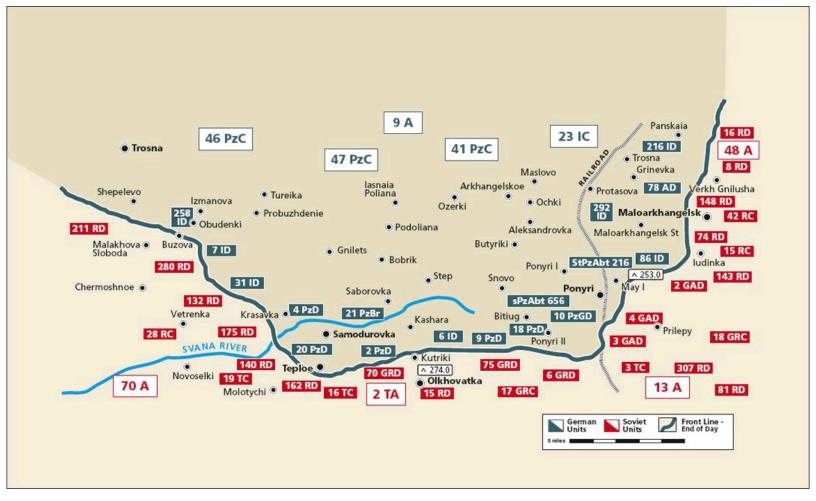
Map 4 Northern Salient, July 7th 1943 – midnight.



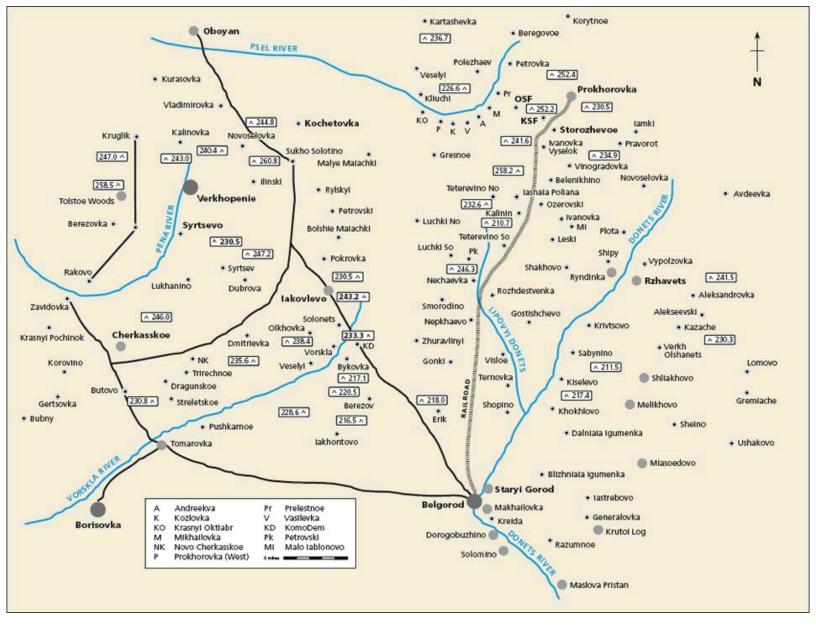
Map 5 Northern Salient, July 8th 1943 – midnight.



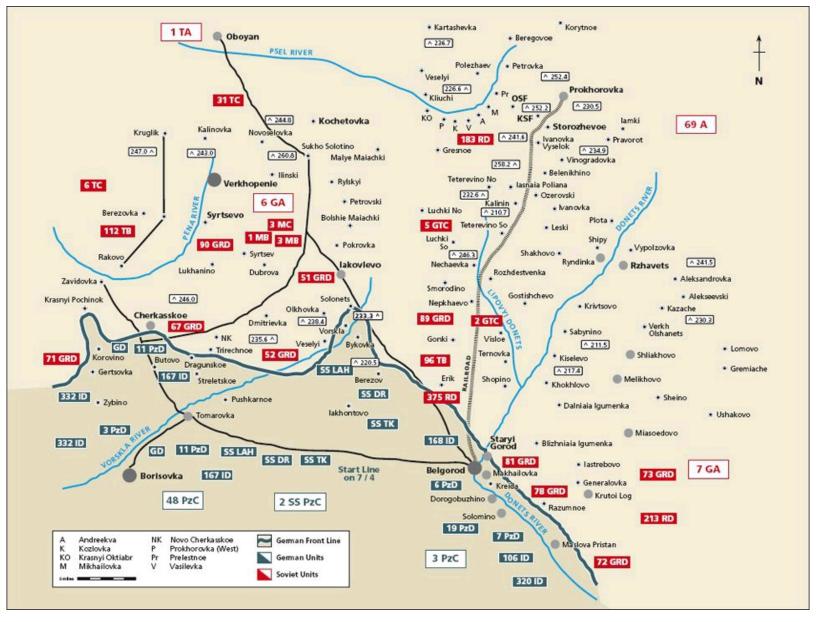
Map 6 Northern Salient, July 10th 1943 – midnight.



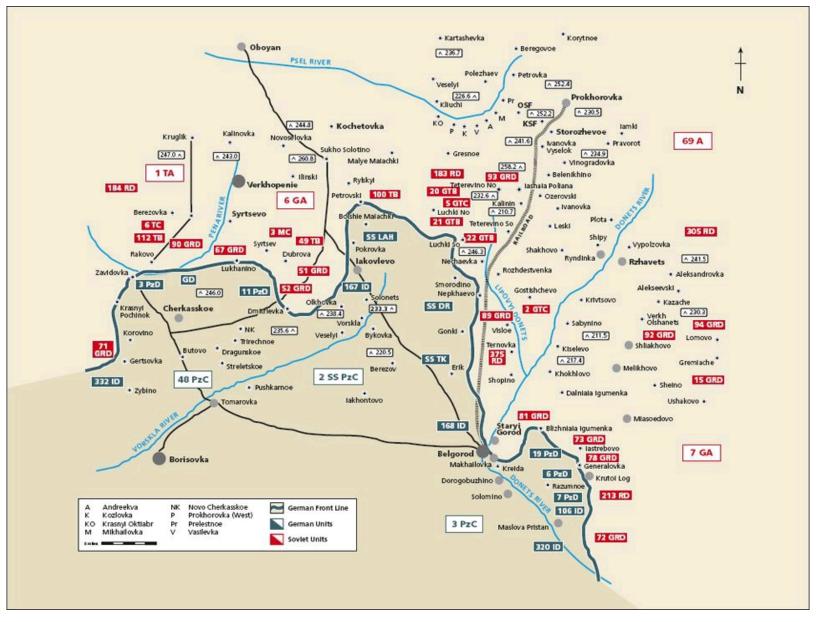
Map 7 Northern Salient, July 12th 1943 – midnight.



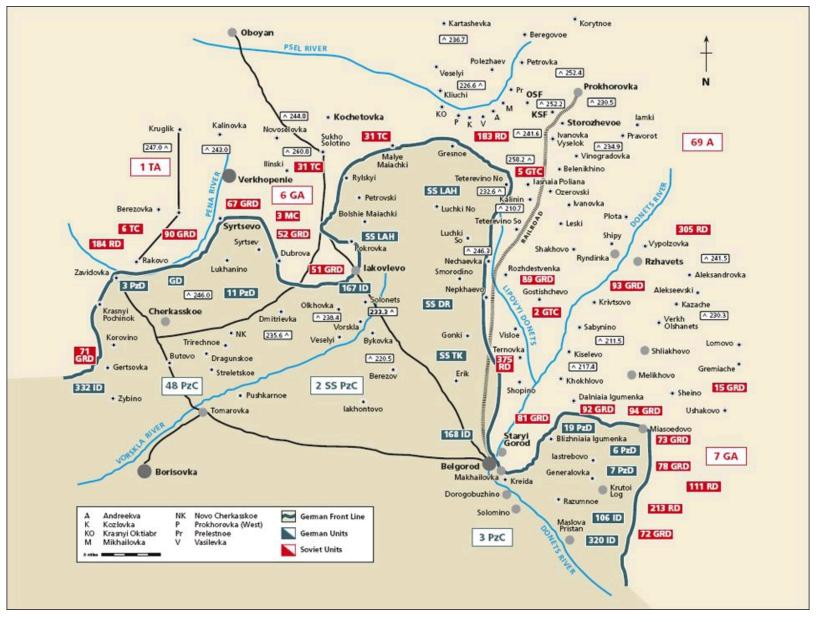
Map 8 Southern Salient, topographical.



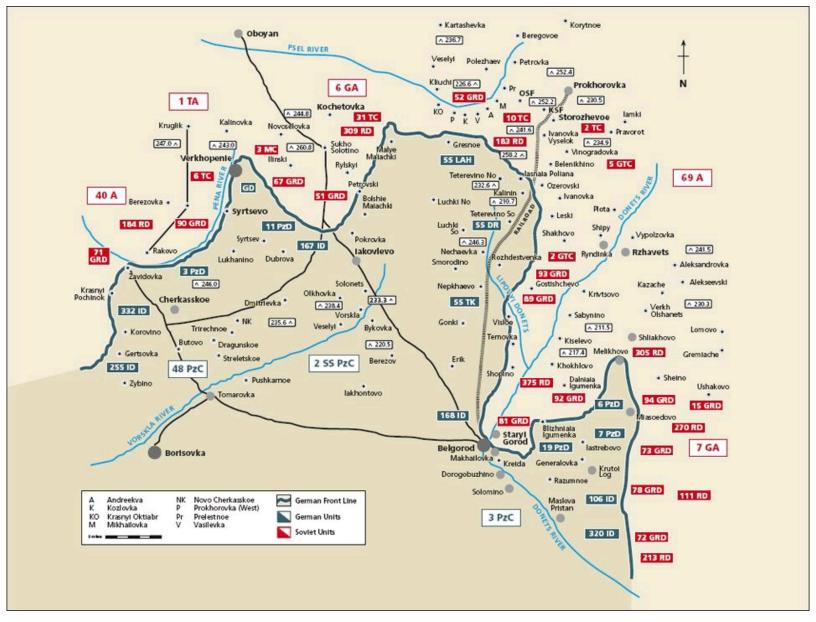
Map 9 Southern Salient, July 5th 1943 – midnight.



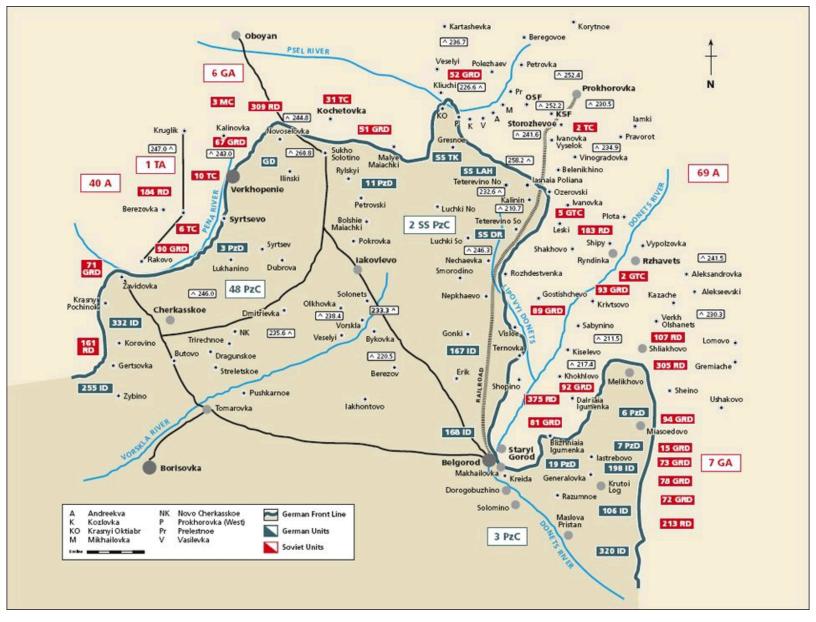
Map 10 Southern Salient, July 6th 1943 – midnight.



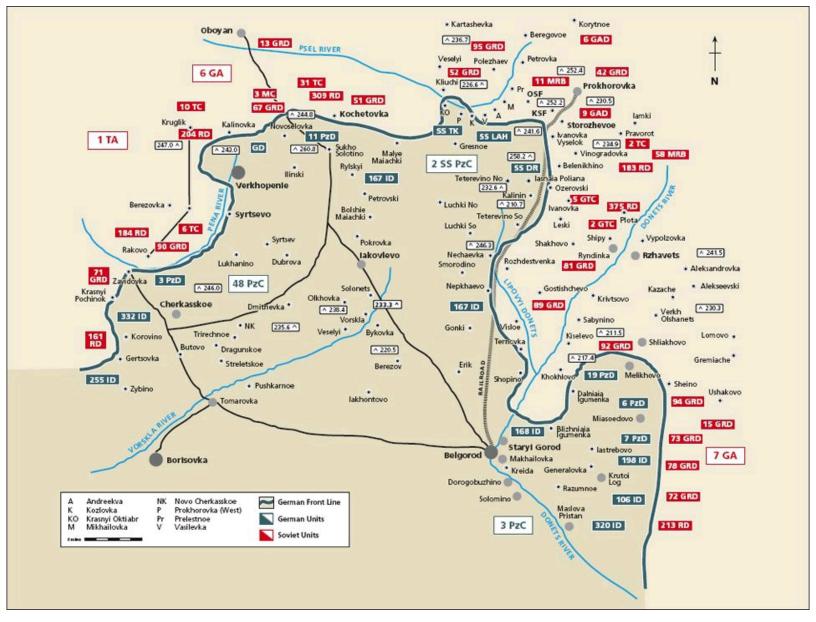
Map 11 Southern Salient, July 7th 1943 – midnight. First major Soviet counter-attack.



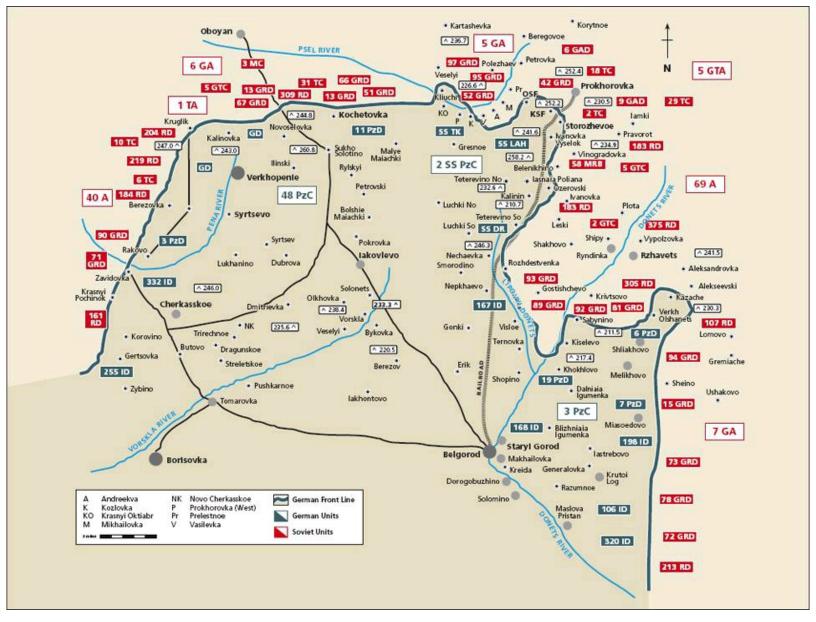
Map 12 Southern Salient, July 8th 1943 – midnight. Second major Soviet counter-attack.



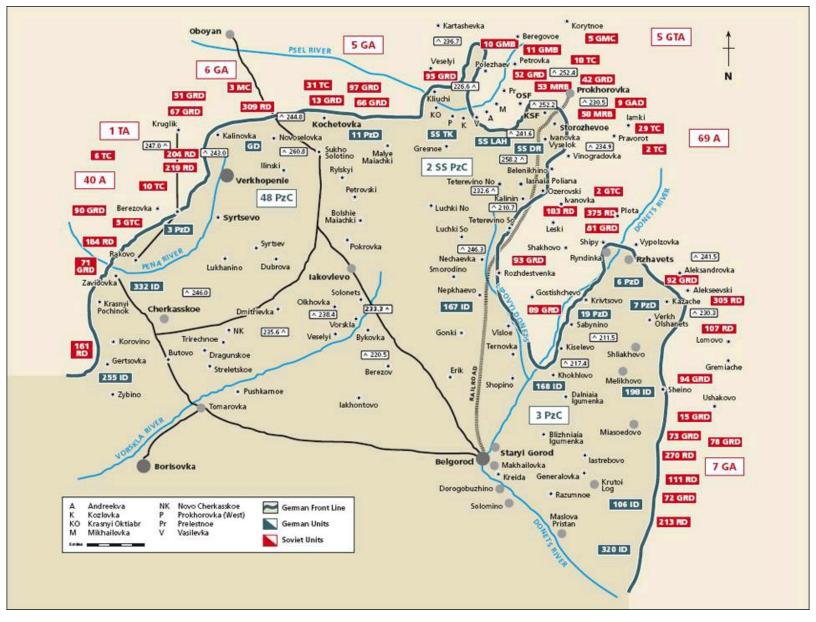
Map 13 Southern Salient, July 9th 1943 – midnight. 4th PzA resumes its attack.



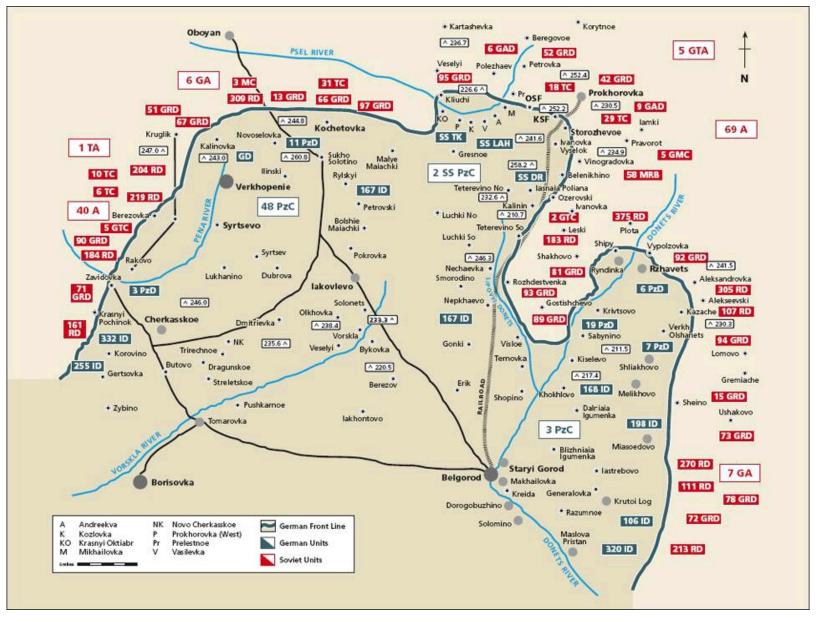
Map 14 Southern Salient, July 10th 1943 – midnight.



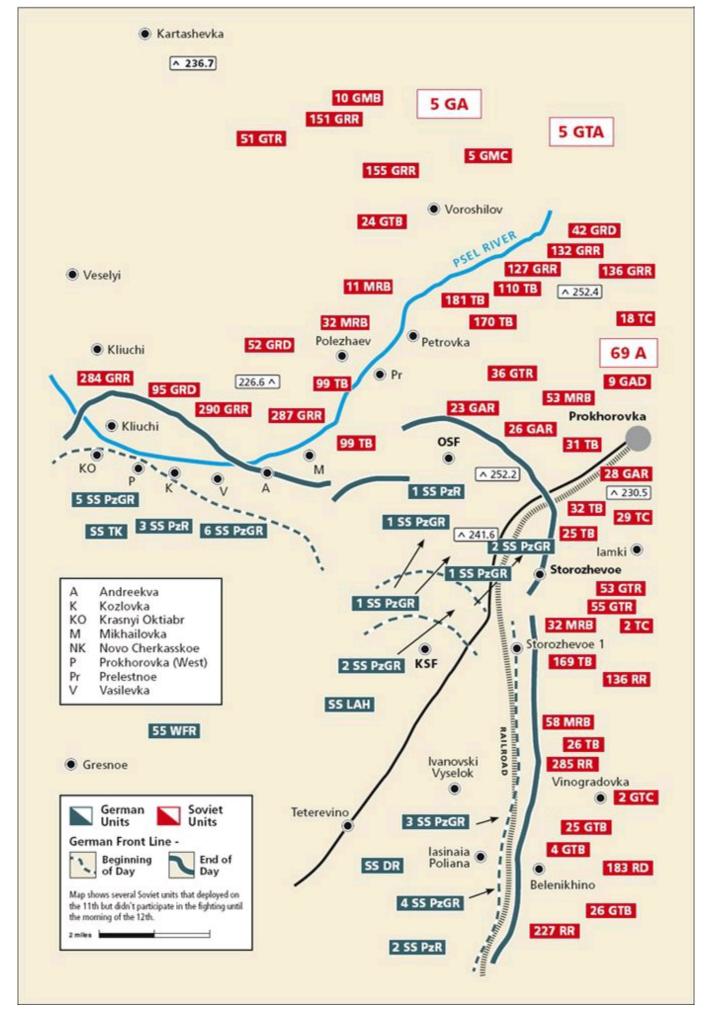
Map 15 Southern Salient, July 11th 1943 – midnight.



Map 16 Southern Salient, July 12th 1943 – midnight.

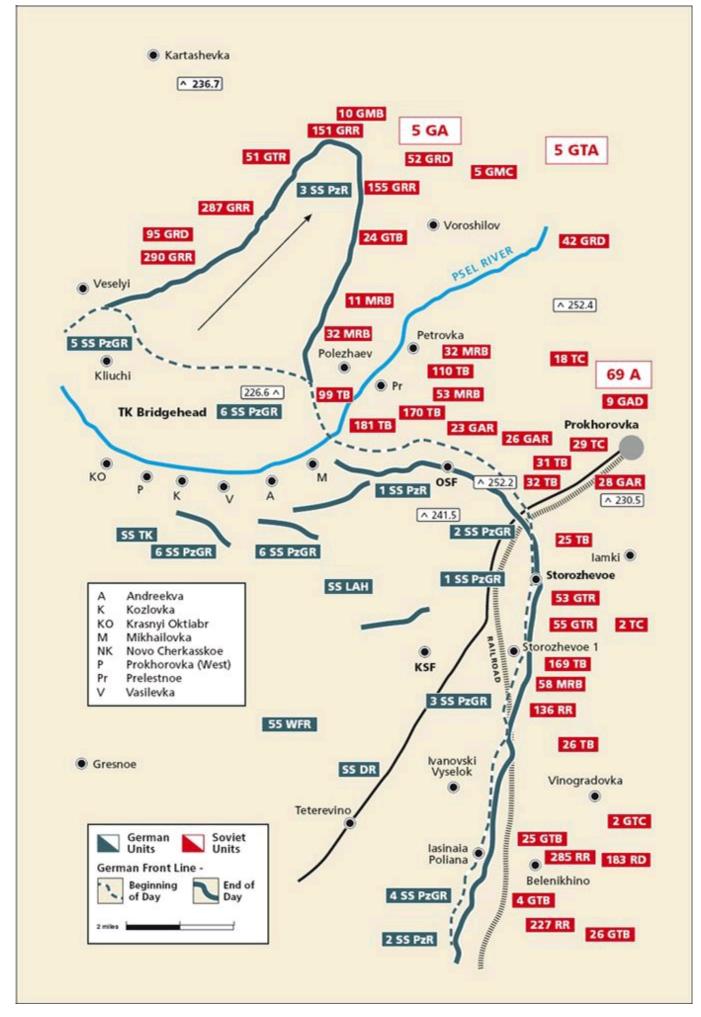


Map 17 Southern Salient, July 13th 1943 – midnight.



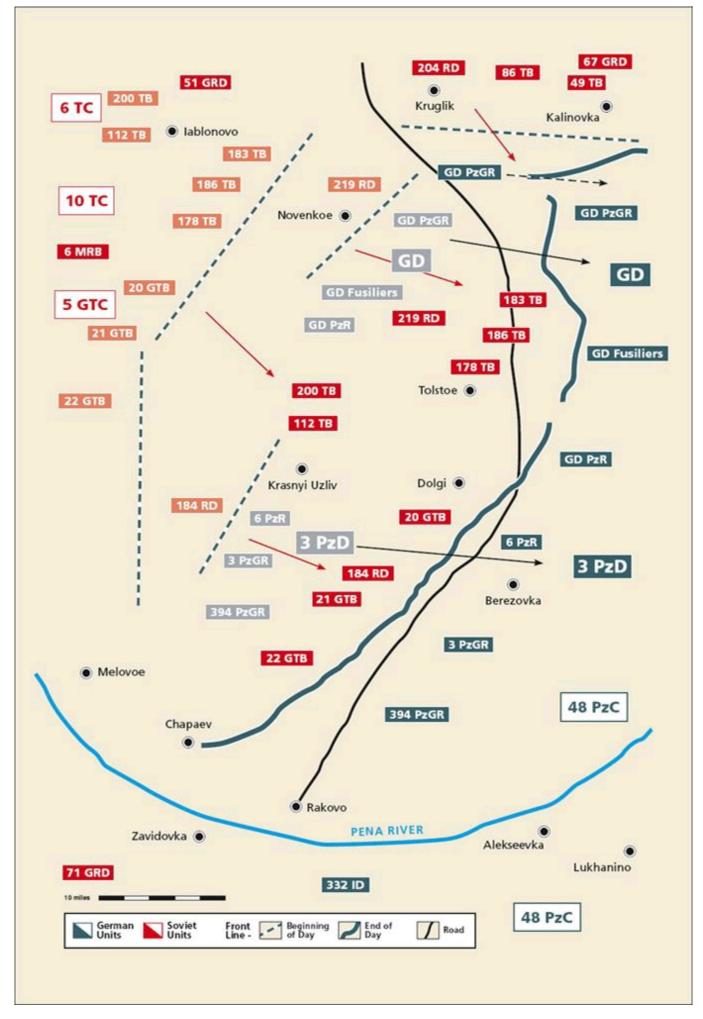
Map 18 Southern Salient, Battle for Prokhorovka, July 11th 1943 – midnight. 2nd SS PzC's attempt to take

Prokhorovka before 5th GTA fully arrived.



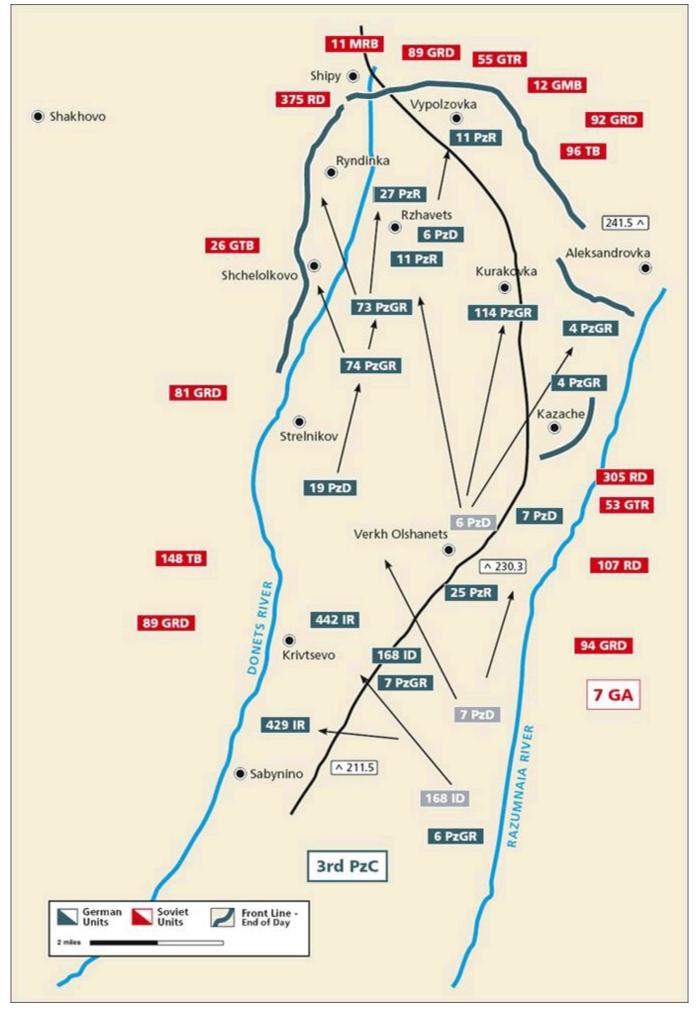
Map 19 Southern Salient, Battle for Prokhorovka, July 12th 1943 – midnight. The advance of 2nd SS PzC after

Rotmistrov's assault failed to encircle the Germans.

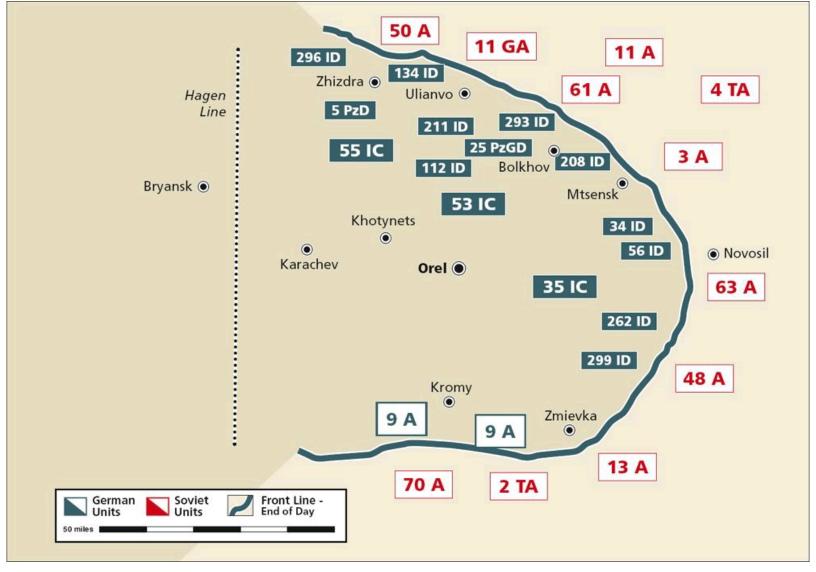


Map 20 Southern Salient, Counter-attack of 1st TA, July 12th 1943 – midnight. The sector retreat of 48th PzC

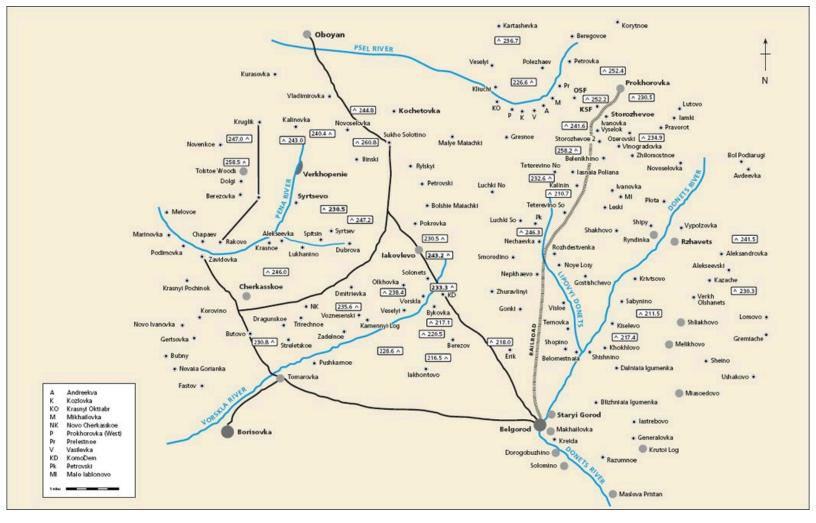
against 1st TA's counter-attack.



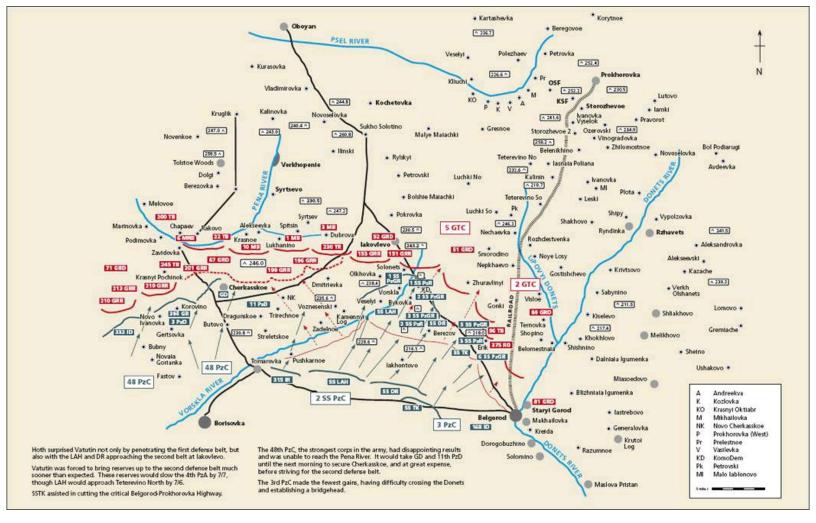
Map 21 Kempf's Offensive, July 12th 1943. 3rd PzC's advance.



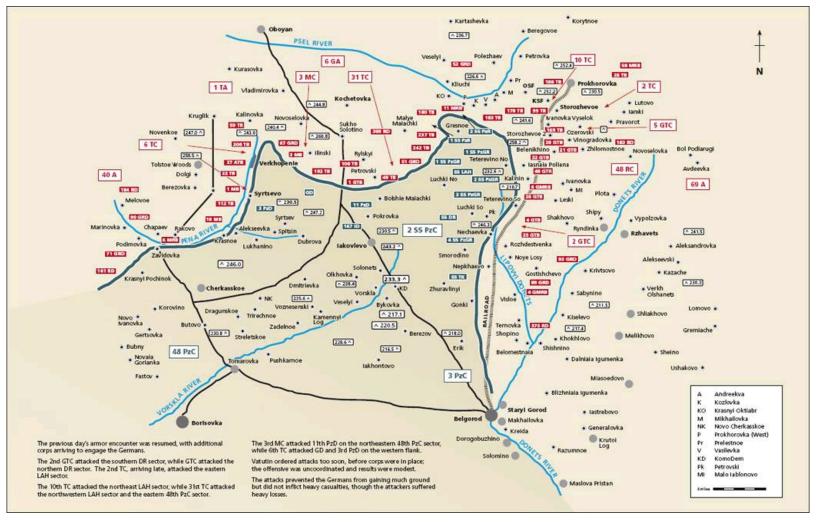
Map 22 Orel Salient, July 11th 1943 – midnight. Deployments at the start of Operation Kutuzov.



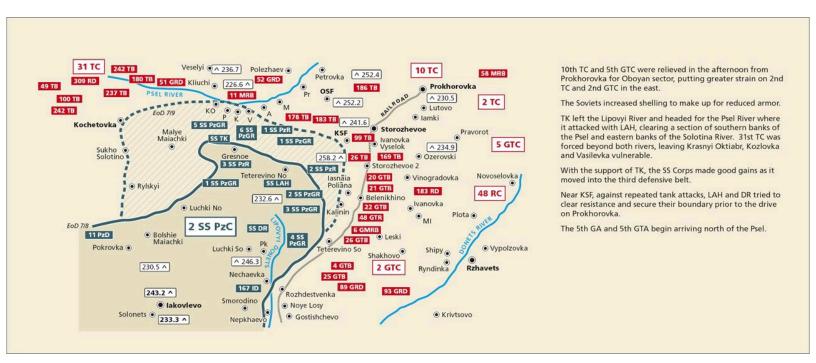
Map 23 Southern Salient, large topographical.



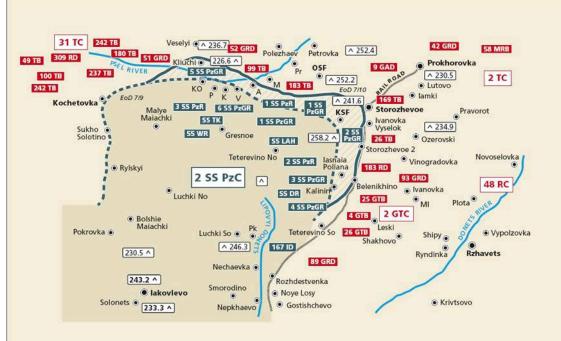
Map 24 Southern Salient, Primary Axis, July 5th 1943. Opening day for 48th PzC and 2nd SS PzC.



Map 25 Southern Salient, July 8th 1943. Soviet armored counter-attack.



Map 26A Southern Salient, July 9th 1943. 2nd SS PzC offensive.



With 10th TC and 5th GTC moving west, both 2nd TC and 2nd GTC had to shift and expand their sectors northward. They were required to stop LAH and DR from securing Prokhorovka and Storozhevoe.

Starting late, LAH completed capturing KSF before moving on and capturing Hill 241.6. DR remained defensive and protected LAH's flank.

At the same time, TK secured a bridgehead over the Psel, but failed to take Hill 226.6.

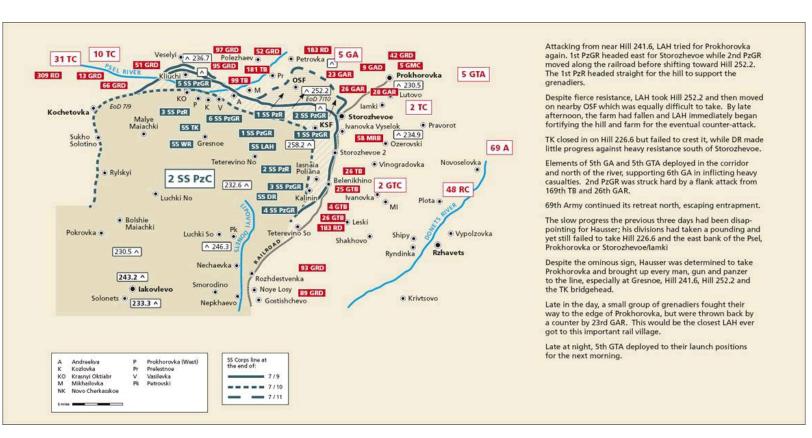
The 99th TB attacked along the southern bank of the Psel, trying to recapture lost ground and interrupt TK from further crossings.

Though failing to take all objectives, the SS had established the front line from Kliuchi to the villages south of the Psel, across the corridor, past the railroad tracks to just south of Storozhevoe.

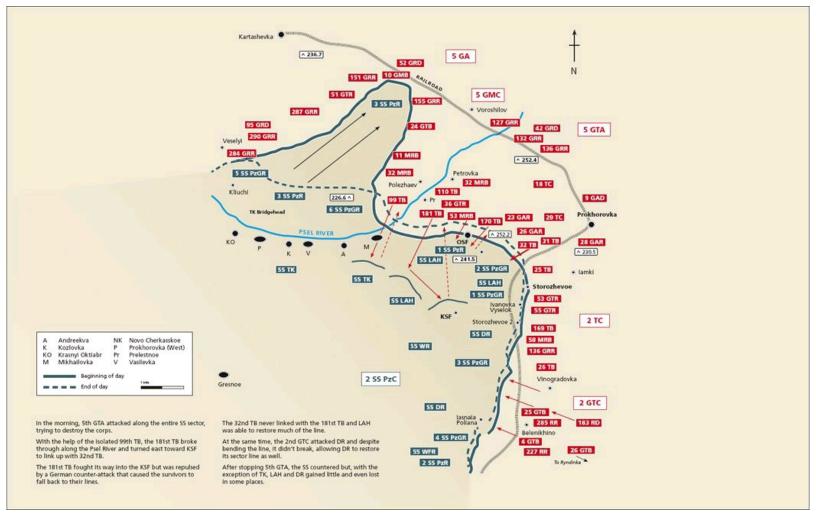
Primary objectives remained Hill 226.6, Hill 252.2, OSF, Storozhevoe and Prokhorovka. With 5th GA and 5th GTA now arriving in greater numbers, these objectives would be more difficult the following day.

LAH's advance on this day was made "easier" with 10th TC and 5th GTC deploying to the west during the previous night. The 48th PzC had a good day and caught up with the 5S Corps, evening out the line.

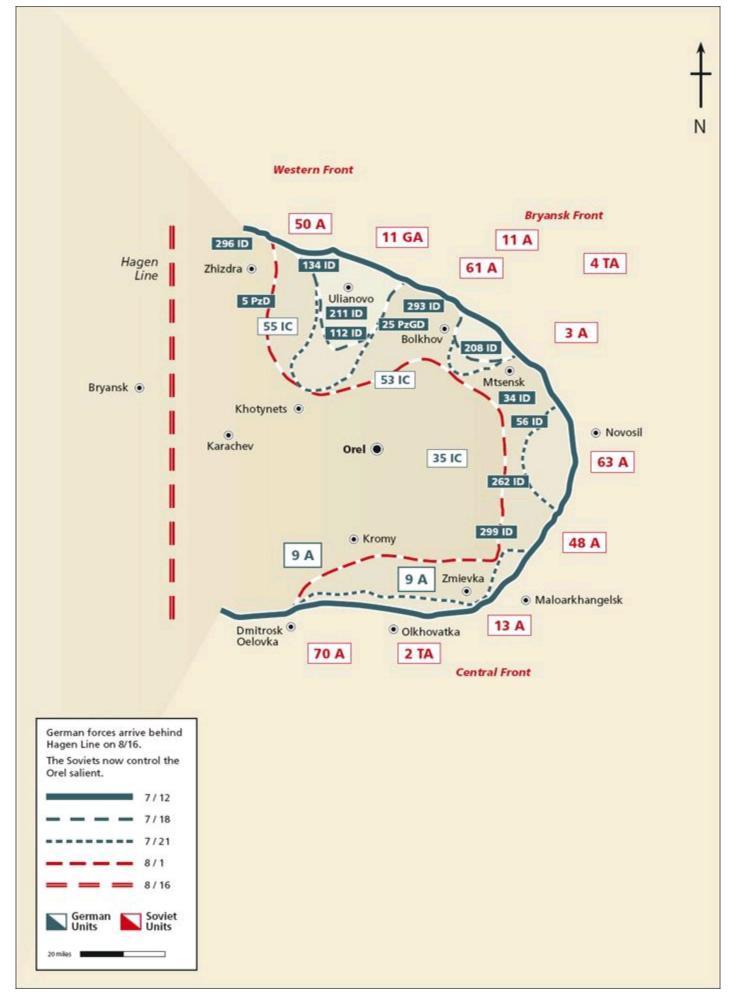
Map 26B Southern Salient, July 10th 1943. 2nd SS PzC offensive.



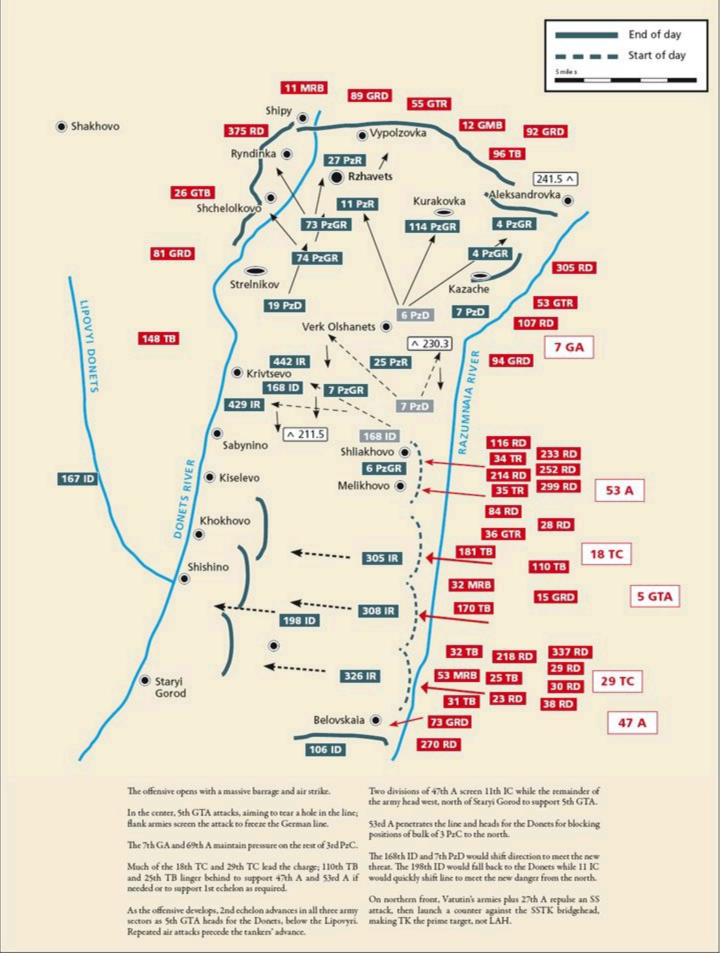
Map 26C Southern Salient, July 11th 1943. 2nd SS PzC offensive.



Map 27 Southern Salient, July 12th 1943. Defense of Prokhorovka.



Map 28 Orel Salient, Operation Kutuzov, July 12th-August 16th 1943.



Map 29 Proposed alternate offensive, Southern Salient, July 12th 1943.