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## **Russia marches South: army reform and battlefield performance in Russia's Southern campaigns, 1695-1739**

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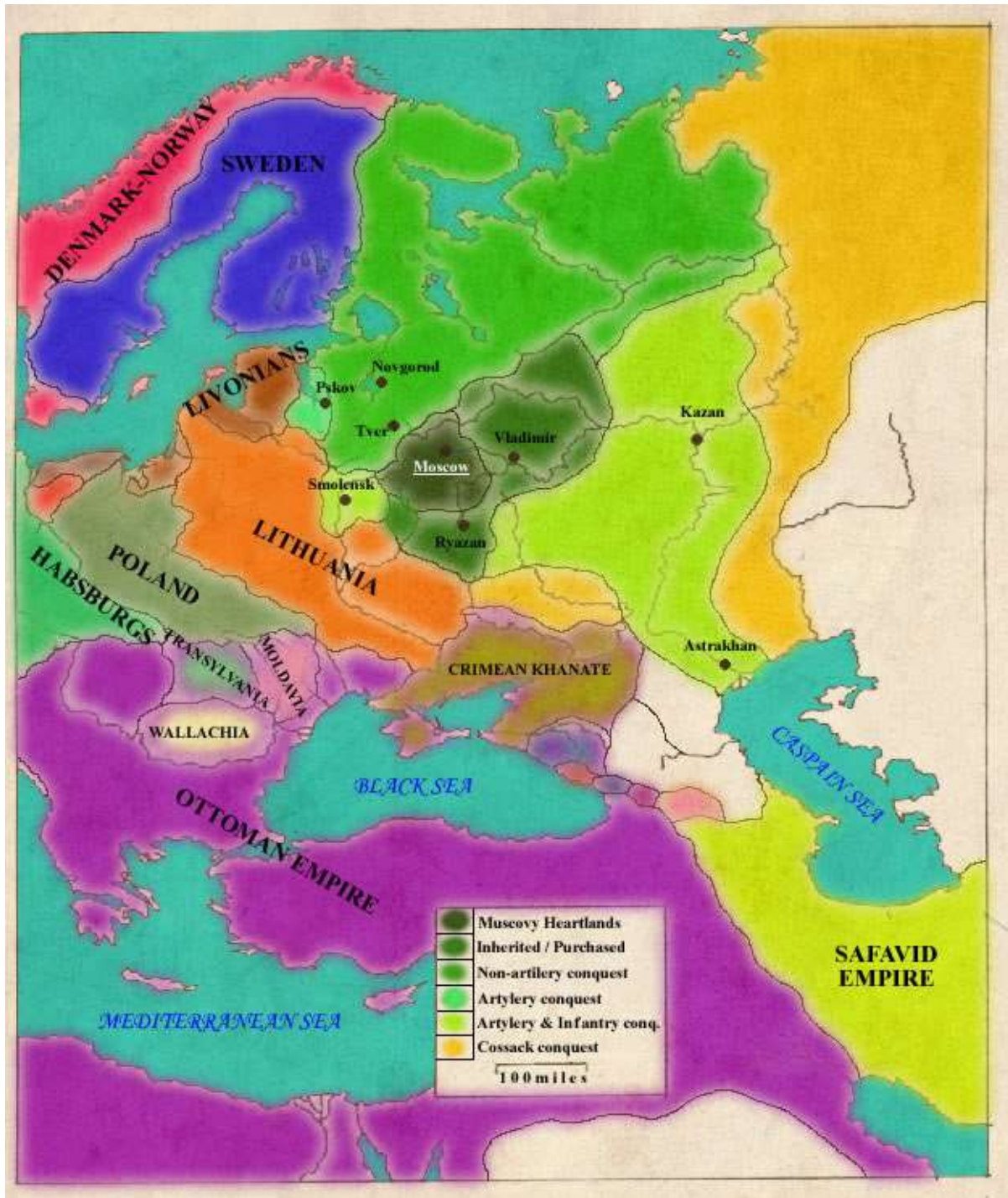
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# APPENDIXES

## PART I, CHAPTER I

Map 1 - Russia's Expansion 1478 – 1578



**Table 1****Army growth in Russia 1631 – 1722**

| <b>Year</b> | <b>J. Keep<br/><i>Soldiers<br/>of the<br/>Tsar</i></b> | <b>W. Fuller<br/><i>Strategy<br/>and Power<br/>(1)</i></b> | <b>R. Hellie<br/><i>The Petrine<br/>Army</i></b> | <b>C. Duffy<br/><i>Russia's<br/>Military<br/>Way</i></b> | <b>B. Davies<br/><i>Empire and<br/>Military</i></b> | <b>Russian<br/>data</b>                                |
|-------------|--|--|--|--|---|--|
| ~ 1590      | ~ 110,000  |  | ~ 110,000  |  |   | 110,000<br>(3.1)<br>150,000<br>(3.2)<br>300,000<br>(4) |
| 1631        | ~ 35,000<br>(2)  | 29,000   |  |  | 90,000 (20)   | 34 558<br>(17)   |
| 1650s       |  |  |  | 138 755<br>(12)  |   | 160,000<br>(21)  |
| 1681        | 190,938  |  | 215,000  | 200-300 000<br>(13)                                      | 245,000<br>(20)                                     | 214,600<br>(18)  |
| 1687        |  |  |  |  |   | 112,902<br>(19)  |
| 1689        |  | 112,000 (6)  | ~110,000<br>(6)                                  | Up to<br>300,000<br>(14)                                 |   | 117,446<br>(19)  |
| 1695/6      |  |  | ~ 90,000 (7)                                     | 150,000  |   |  |
| 1700        |  | 40,000   | 34-45,000<br>(8)                                 | 34,000 (8)   | 280-300,000<br>(20)                                 |  |
| 1705        |  | 60,000   |  |  |   |  |
| 1709        |  |  | 42,000 (9)                                       | 200,000<br>(15)  |   |  |
| 1711/1712   | 174,757  | 100,000  | 44,000 (10)                                      | 144,464<br>(16)  |   |  |
| 1713        |  |  | 13-16,000<br>(11)                                |  |   |  |
| 1720        | 177,029  |  |  |  |   |  |
| 1724        |  | 130,000  | 210-265,000<br>(5)                               |  |   | 253,000<br>(22)  |
| 1725        | 304,000<br>(5)   |  |  |  | 289,000<br>(23)                                     |  |
| 1730        |  |  |  |  | 226,000   |  |
| 1732        |  |  |  |  | 230,354   |  |
| 1736        |  |  |  |  | 240,405   |  |

## Notes:

- (1) Fuller regards only field army and does not include garrison and supporting troops.
- (2) 17,400 strong new model regiments, which comprised half of the total active army. This figure applies only for the forces that participated in the Smolensk Campaign; see J. Keep, *Soldiers of the Tsar*, 81.
- (3.1) S.M. Seredonin
- (3.2) A.A. Zimin
- (4) I.A. Korotkov
- (5) Including the navy personnel. Otherwise ~ 289,000.
- (6) This was a field army under Golytsin for the Crimean Campaign. Fuller estimates the Russian forces at 100,000 for the Crimean Campaign of 1687.
- (7) This was a field army under Peter I for the Azov Campaign
- (8) Only the army at Narva
- (9) Only the army at Poltava
- (10) Only the army at Pruth
- (11) Only the army in Finland
- (12) War-time army; see C. Duffy, *Russia's Military Way to the West*, 6-7.
- (13) In the 1670s
- (14) Duffy quotes Pososhkov (1951, 262)
- (15) This figure is for 1707. Duffy gives 45,000 for the Battle of Poltava.
- (16) This is the number of regular forces, including 58,000 garrison troops.
- (17) The field army of M. Shein in the 1631 campaign. A.V. Chernov, *Vooruzhennyye sily Russkogo gosudarstva v XV-XVII v.v.*
- (18) The total paper strength of Aleksey's army, Ibid.
- (19) These are the field armies' paper strength for the two Crimean Campaigns. Ibid.
- (20) Brian Davies, *Empire and Military Revolution in Eastern Europe*, 62-3. For 1625-1631, he gives a total of 90,000 for the entire Muscovite army; For 1681 he estimates a total of 245,000, not including the Ukrainian Cossacks. The figure for 1700 is for the entire army prior to the Narva Campaign.
- (21) A.V. Volkov, *Voyny i Voyska Moskovskogo Gosudarstva*, 356
- (22) According to L.G. Beskrovnyy.
- (23) Not including naval personnel. Davies uses Keep's estimates.

**Table 2****Number of Recruits for the Russian Army 1700 – 1740**

| <b>Year</b> | <b>Number of recruits according to Beskrovnyy</b> | <b>Other estimates</b>                                | <b>Notes</b>  |
|-------------|---|---|---|
| 1700        | 33,234  | -   | 32,130  |
| 1701        | -   | -   | No recruitments were carried out. Conscription of serfs and free men was used.  |
| 1702        | -   | -   |   |
| 1703        | -   | -   |   |
| 1704        | -   | -   |   |
| 1705        | 44,539  |   |   |
| 1706        | 19,579  | 12,572 (not including the fleet and the supply train) | 12,579 for the army, 6,000 for the supply train, 1,000 for the navy   |
| 1707        | 12,450  | 13,135  |   |
| 1708        | 11,289  | 12,739  | Anisimov gives a higher number of recruits, including 550 from the War department. The 11,289 soldiers, given by Beskrovnyy were enlisted by the Pomesnchiye department as noted in Anisimov. |
| 1709        | 15,072  | 15,000  |   |
| 1710        | 17,172  | 9,600   | Anisimov states, that state expectations were for 14,200 recruits, but only 9,600 were actually enlisted. Beskrovnyy presents a completely different picture.                                 |
| 1711        | 51,912  | 50,000  | There were three recruitments in this year.   |
| 1712        | -   | -   |   |
| 1713        | 37,958  | -   | There were two recruitments for the army (20,416 men and then 16,342 in the second) and 1,200 men for the fleet.  |
| 1714        | 500   | -   | All for the fleet. They were recruited from the sea areas.  |
| 1715        | 12,395  | -   | From them 1,500 were for  |

|              |                |                    |  |
|--------------|----------------|--------------------|--|
|              |                |                    | the fleet.   |
| 1716         | 250            | -                  | They were sent to the Prussians as grenadiers.   |
| 1717         | 2,500          | -                  | They were all sent to the fleet.   |
| 1718         | 15,389         | -                  | For the fleet and the army.  |
| 1719         | 14,112         | -                  |  |
| 1720         | 4,000          | -                  | They were recruited from the children of soldiers and NCOs   |
| 1721         | 19,755         | -                  |  |
| 1722         | -              |                    |  |
| 1723         | 10,118         | -                  |  |
| 1724         | 20,550         | -                  |  |
| 1725         | -              | -                  |  |
| 1726         | 22,795         | -                  |  |
| 1727         | 34,425         | -                  | There were two recruitments – 16,640 and 17,785 men.   |
| 1728         | 15,016         | -                  |  |
| 1729         | 23,698         | -                  |  |
| 1730         | 16,000         | -                  |  |
| 1731         | -              | -                  | There was recruitment for the fleet, but no actual numbers are given.  |
| 1732         | 18,654         | -                  |  |
| 1733         | 50,569         |                    |  |
| 1734         | 35,000         |                    | A new rule was introduced, regarding the minimum height of the recruits.   |
| 1735         | -              |                    |  |
| 1736         | 45,167         | ~40,000 (A. Bayov) | For the war against the Ottoman Empire.  |
| 1737         | 51,960         |                    | 4,000 of them were Bashkir cavalymen   |
| 1738         | 34,071         |                    |  |
| 1739         | 31,450         |                    | These were taken in a single recruitment. However, several other local recruitments were carried out, but no numbers are given for them. |
| 1740         | 41,131         |                    | They were enlisted in 2 recruitments – 21,131 and 20,000 men.  |
| <b>TOTAL</b> | <b>762,710</b> |                    |  |

Source: L.G. Beskrovnyy, *Russkaya armiya i flot v XVIII veke* (Moscow: Voenizdat, 1958)

**Table 3**  
**Russian and European Army Growth (1590-1715)**

| <b>Year</b> | <b>Russia</b>  | <b>France</b>  | <b>England</b> | <b>Sweden</b> | <b>Netherlands</b> | <b>Spain</b> | <b>Austria</b> |
|-------------|----------------|----------------|----------------|---------------|--------------------|--------------|----------------|
| 1590s       | 110,000<br>(1) | 80,000         | 30,000         | 15,000        | 20,000             | 200,000      | -              |
| 1630s       | 35,000         | 150,000<br>(5) | -              | 45,000        | 50,000             | 300,000      | -              |
| 1650s       | 138,755<br>(2) | 100,000        | 70,000         | 70,000        | -                  | 100,000      | -              |
| 1670s       | 130,000        | 120,000        | -              | 63,000        | 110,000            | 70,000       | 25,000         |
| 1700s       | 170,000<br>(3) | 400,000<br>(6) | 87,000         | 100,000       | 100,000            | 50,000       | 50,000<br>(8)  |
| 1710s       | 253,000<br>(4) | 350,000<br>(7) | 75,000         | 110,000       | 130,000            | 30,000       | 100,000<br>(9) |

Source: G. Parker, “The Military Revolution 1550 – 1660 A Myth?”, in C.J. Rogers (ed.) *The Military Revolution Debate* (Oxford: Westview Press, 1995), 44; P. Kennedy, *The Rise and Fall of Great Powers* (New York: Vintage Books, 1989), 99 (For the 1710s numbers only); For Russian figures, see Table 1 above

**Notes:**

- (1) Taken from Table 1; Both Keep and Hellie accept this figure; see Table 1 above
- (2) According to C. Duffy; see Table 1 above.
- (3) Keep gives 174,757 for 1711-12; Duffy estimates the active army at 144,464 soldiers; see Table 1 above.
- (4) Beskrovnyy places the entire Russian army following the regulations of 1711 and 1720 at 253,000. L.G. Beskrovnyy, *Ruskaya armiya i flot*, 39-50.
- (5) John Lynn gives 125,000 as the actual number of the French army for 1635 – 1642; see J. Lynn, *Recalculating French Army Growth* in TMRD, 133.
- (6) Lynn estimates 340,000 during the Nine Years War; Ibid., 132.
- (7) Lynn estimates 255,000 during the War of the Spanish Succession, Ibid., 132.
- (8) Tim Blanning estimates 100,000 for Austria in 1700; see T. Blanning, *The Pursuit of Glory: Europe 1648 – 1815* (London: Penguin UK, 2007), 603
- (9) Tim Blanning estimates 110,000 for Austria in 1710; Ibid.



**Table 4**  
**The Russian Military Expenditure Tables**

| Army type     | 1711           |                  | 1720           |                  | 1724           |                  |
|---------------|----------------|------------------|----------------|------------------|----------------|------------------|
|               | Size           | Cost             | Size           | Cost             | Size           | Cost             |
| General Staff | 184            | 91,000           | 360            | 163,000          | 360            | 163,000          |
| Cavalry       | 43,824         | 765,000          | 39,501         | 1,389,000        | 41,674         |                  |
| Guards        | 62,454         | 882,000          | 5,817          | 156,000          | 5,817          | 245,000          |
| Infantry      |                |                  | 57,956         | 1 427 000        | 58,754         |                  |
| Garrison      | 64,769         | 452,000          | 69,896         | 961,000          | 69,313         | 3,840,000<br>(2) |
| Artillery     | 3,526          | 195,000          | 3,526          | 195,000          | 4,526          | 300,000          |
| Other         | -              | -                | -              | -                | 124,150<br>(1) | 2,144,000        |
| <b>Total</b>  | <b>174,757</b> | <b>2,385,000</b> | <b>177,029</b> | <b>4,291,000</b> | <b>304,000</b> | <b>6,692,000</b> |

Source: J. Keep, *Soldiers of the Tsar: Army and Society in Russia, 1462–1874* (Oxford: Clarendon Press, 1985), 136-8; Prices are in *rubles*.

**Notes:**

(1) Includes “Lower Corps” (*Nizovoy korpus* – the army occupying Persian provinces in the south Caspian Sea); Ukrainian frontier force; irregular troops; naval forces.

(2) This figure is the total expenditure for the cavalry, infantry and garrison troops.

**Table 5**  
**Annual Military Expenditure and State Revenue in Russia in rubles**

| Year | State Revenue  | Expenditure             |                   |                  |
|------|----------------|-------------------------|-------------------|------------------|
|      |                | Total State Expenditure | Military          | % of the Revenue |
| 1680 | 1,500,000*     |                         | 750,000*          | 50%              |
| 1701 | 3,546,000****  |                         | 1,839,000*        | 52%              |
| 1704 | -              | 3,032,082               | 1,439,832****     | 40.9% (3)***     |
| 1710 | 3,133,879***   | 3,077,110*****          | 3,000,000(1)***** | 95%              |
| 1711 | 3,200,000**    | 4,268,000 (2)           | 4,000,000 (2) **  | 125%             |
| 1712 | -              | -                       | 3,356,900         |                  |
| 1720 | 6,499,000***** | 5,556,000*****          | 4,291,000** (5)   | 66%              |
| 1723 | 6,042,000****  | 4,725,000****           | -                 | -                |

|      |                 |                     |                    |         |
|------|-----------------|---------------------|--------------------|---------|
| 1724 | 8,556,000*****  | 6,243,000****       | 5,403,348          | 63%     |
| 1725 | 10,186,000***** | 10,141,000 <u>*</u> | 6,541,000 <u>*</u> | 66% (4) |
| 1729 | -               | -                   | 5,412,263*****     | -       |
| 1734 | -               | 9,424 000 <u>*</u>  | 6,731,000 <u>*</u> |         |
| 1736 | -               | -                   | 5,466,932*****     | -       |

Sources: J. Keep, *Soldiers of the Tsar*, 136-8; L. Hughes, *Russia in the Age of Peter the Great* (New Heaven and London: Yale University Press 1998), 136-8; C. Duffy, *Russia's Military Way to the West*, 36; S.G. Strumilin, "K voprosu ob ekonomike Petrovsko epokhi" in L.G. Beskrovnyy (ed.), *Poltava: K 250-letiyu Poltavskogo srazheniya; sbornik statey*, (Moscow : Akademia nauk, 1959); L.G. Beskrovnyy, *Russkaya armiya i flot v XVIII veke*, 118.

### Notes:

\* C. Duffy estimate

\*\* J. Keep estimate

\*\*\* L. Hughes estimate

\*\*\*\* S. Strumilin estimate

\*\*\*\*\* B. Davies estimate

\*\*\*\*\* Beskrovnyy's estimate

\* Troitsky's estimates

(1) C. Duffy estimates the war expenditure for 1710 at 3,000,290 or around 93 per cent of the State Revenue. Lindsey Huges estimates a total military expenditure of 3,834,418 rubles. Davies claims that the war expenditure for 1710 was 2,544,000 or 83% of the total state expenditure for that year. In the dissertation are used Beskrovnyy's estimates, which include naval personnel as well.

(2) Includes 1,260,000 rubles cost for supplies and forage. Without these, the total war expenditure is 2,740,000. This is 90% of the total state expenditure for 1711, which is 3,008,000 rubles.

(3) This is the percentage from the total state expenditure for 1704 which was 3,032,082 rubles.

(4) According to Beskrovnyy, the total war expenditure was 5,970,000 rubles or 66 per cent of the total revenue.

(5) Beskrovnyy estimates the expenditure at 4,000,000 rubles.

## PART I, CHAPTER 2

**Table 1**

### **Growth of the Kapukulu Ocakları Forces (1514-1769)**

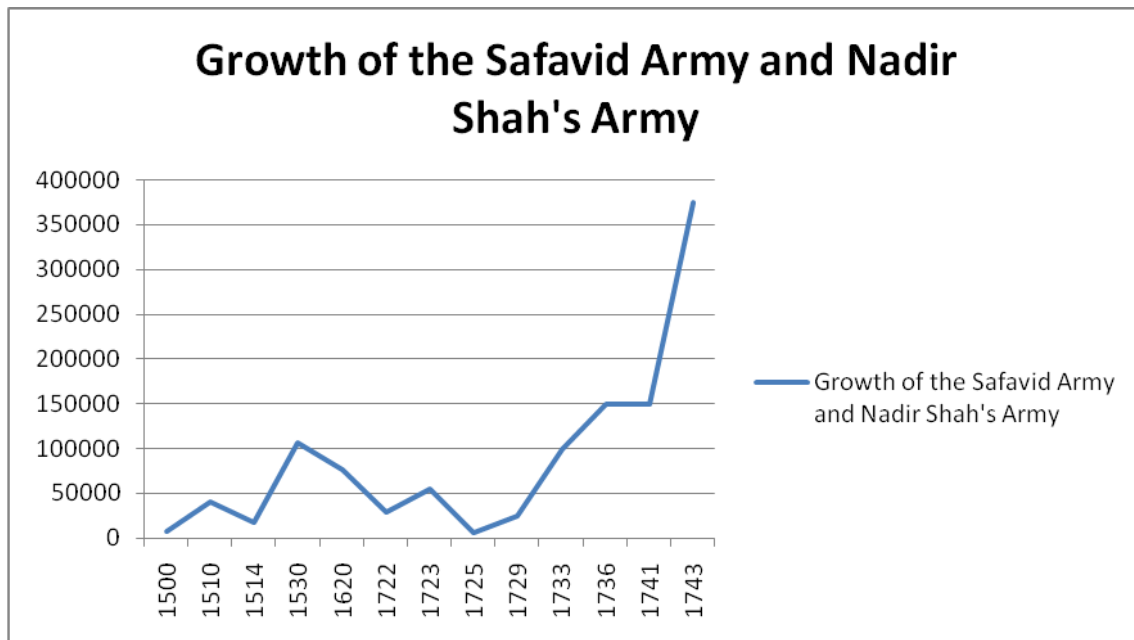
| Year    | Ágoston  |           | Murphey  |                         | Inalcık                 |
|---------|----------|-----------|----------|-------------------------|-------------------------|
|         | Yeniçeri | Artillery | Yeniçeri | Total Kapukulu Ocakları | Total Kapukulu Ocakları |
| 1514    | 10,156   | 1,171     | -        | -                       | 16-30,000               |
| 1526    | 7,886    | 2,162     | 7,886    | 18,689                  |                         |
| 1567-68 | 12,798   | 2,671     | -        | -                       |                         |
| 1574    | -        | -         | 13,599   | 29,175                  | 30-70,000 (2)           |
| 1597    | -        | -         | 35,000   | 62,000 (1)              |                         |
| 1609    | 37,627   | 7,966     | 37,627   | 75,868                  |                         |
| 1660-61 | 54,222   | 6,488     | 53,849   | 98,342                  | 50-60,000               |
| 1665    | 49,556   | -         | -        | -                       |                         |
| 1669    | 51,437   | 8,014     | -        | -                       |                         |
| 1670    | 49,868   | -         | 39,470   | 70,296                  |                         |
| 1680    | 54,222   | -         | -        | -                       | -                       |
| 1687    | -        | 9,122     | -        | -                       | -                       |
| 1698-99 | -        | 15,307    | -        | -                       | -                       |
| 1702    | -        | 4,201     | -        | -                       | 70,000 (3)              |
| 1738-39 | -        | 19,430    | -        | -                       |                         |
| 1769    | -        | 5,222     | -        | -                       |                         |

**Sources:** G. Ágoston, *Guns for the Sultan – Military power and Weapons Industry in the Ottoman Empire* (Cambridge: Cambridge University Press, 2005); R. Murphey, *Ottoman Warfare 1500-1700* (London: University College London Press, 1999); Inalcık, H., “Military and Fiscal Transformation in the Ottoman Empire, 1600-1700”, *Archivum Ottomanicum* 6 (Mouton, 1980), 283-339

**Notes:**

- (1) This figure does not include the artillery corps
- (2) For the 1590-1630 period
- (3) For 1704

**Table 2**



**Sources:** M. Axworthy, “The Army of Nader Shah”, *Iranian Studies* 40, 5 (2007), 639; ; Abraham of Yerevan, *History of the Wars, 1721 – 1738*, trans. by G.A. Bournoutian (Costa Mesa: Mazda Publishers, 1999); *Encyclopedia Iranica – Army – Safavid Period* (<http://www.iranica.com/articles/army-iii> ); L. Lockhart , “The Persian Army in the Safavid Period”, *Der Islam: Journal of the History and Culture of the Middle East* 34, 1 (1959), 89-98

**Notes:**

For 1530 - Including non-combatants. Of these, 84,000 were part of the qizilbash tribesmen.  
For 1722-25 - These figures are given by Abraham of Yerevan for the army of Tahmasp II. In addition, he gives different numbers for the garrisons, loyal to Tahmasp and conquered by the Ottomans. However, some of these figures (for example the 85,000 garrison of Tabriz) are a clear exaggeration, and are therefore not included.  
For 1736 – Axworthy gives the number between 120,000 and 180,000. For the purposes of the chart, 150,000 are given as a middle ground.  
For 1743 - This number represents the total field forces of Nadir Shah for his campaign against the Ottoman Empire. This number does not include the garrison troops, left to protect Persia proper. Another suggested figure is 200,000 troops, not counting the detachments, send to occupy other (apart from Mosul and Kirkuk) Ottoman strongholds in Iraq.

Table 3

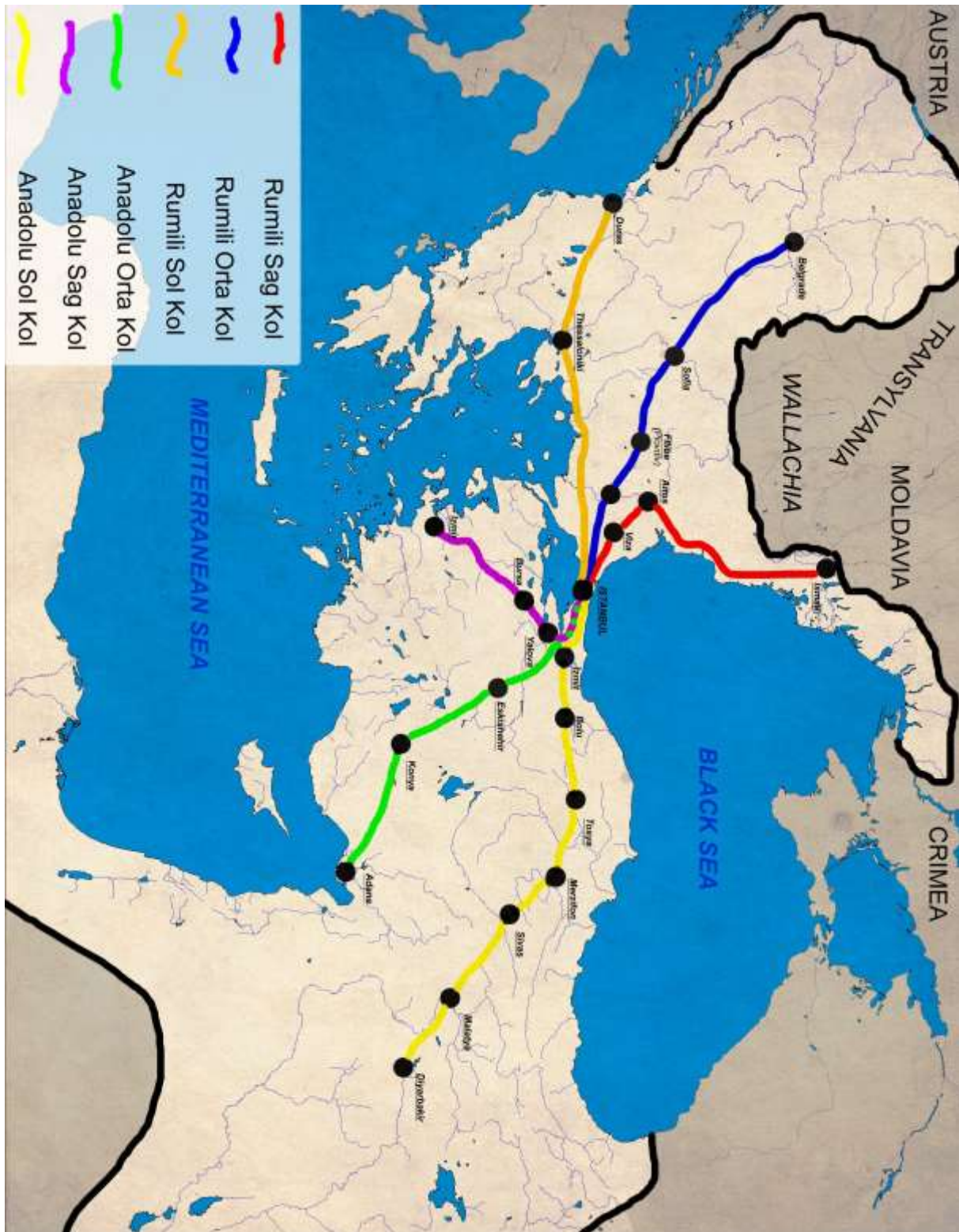


**Source:** M. Haneda, "The Evolution of the Safavid Royal Guard", *Iranian Studies*, 22, 2-3 (1989), 57-85.

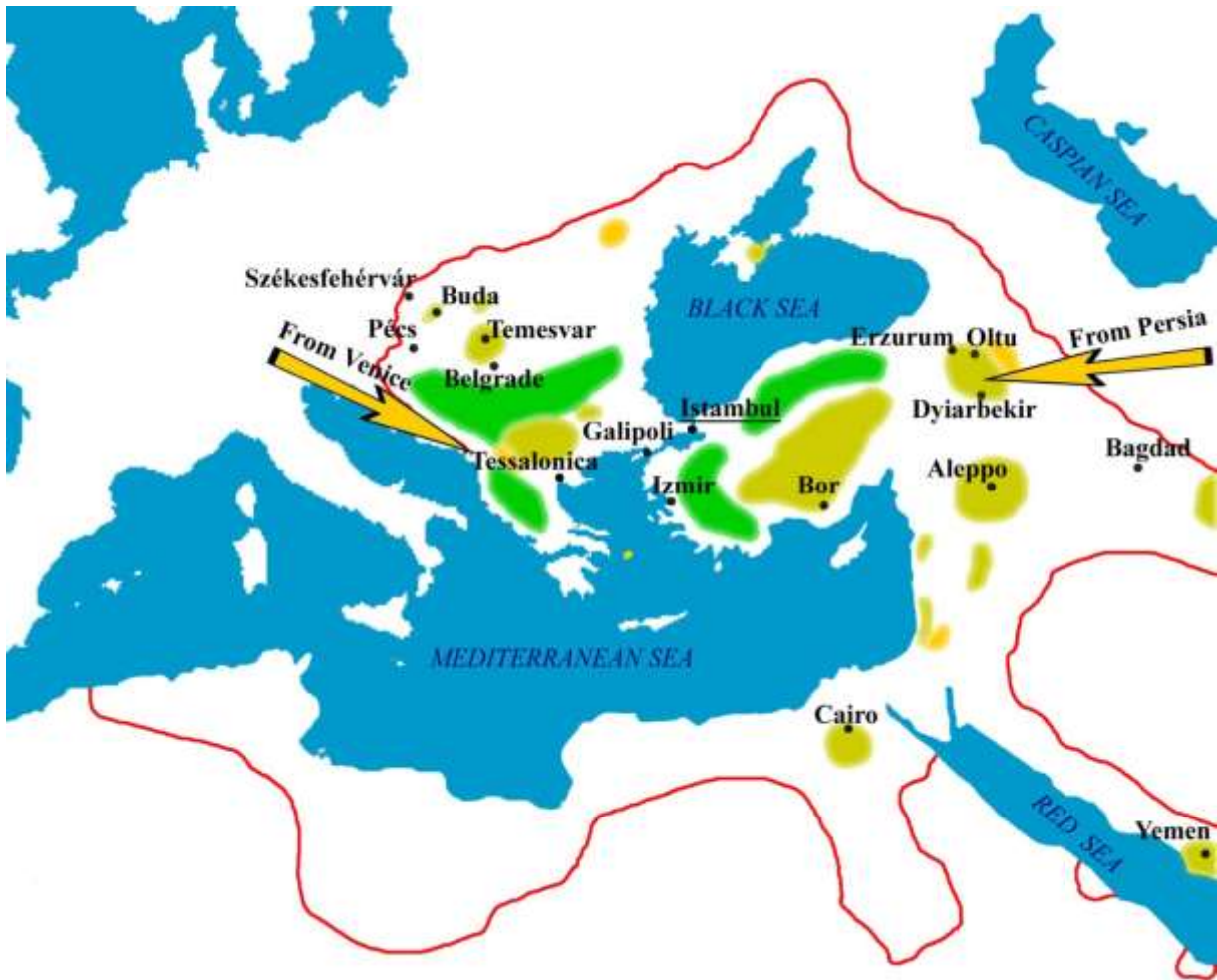
**Notes:**

For 1620 – Haneda notes that the qurchis under Abbas were between 10,000 and 15,000. For the purposes of the chart a middle ground of 12,000 is used.

Map 1 – Military Roads in the Ottoman Empire



## Map 2 - Gunpowder Production in the Ottoman Empire



The map shows the disposition of the main sources and the production centers for the Ottoman gunpowder industry. The cities indicate the places where there were one or more gunpowder mills (*baruthane*). The regions producing saltpeter are in light brown. The regions producing sulfur are in dark yellow. The wood deposits are in green. The boundaries refer to the Ottoman Empire and its vassals in 1680.

**Sources:** G. Ágoston, *Guns for the Sultan*; G. Ágoston, "Gunpowder for the Sultan's Army: New Sources on the Supply of Gunpowder to the Ottoman Army in the Hungarian campaigns of the 16<sup>th</sup> and 17<sup>th</sup> Centuries", *Turcica*, 25 (1993), 75-96.



## PART II, CHAPTER 3

Map 1 – The First Azov Campaign (1695)





Map 2 – The Second Azov Campaign (1696)

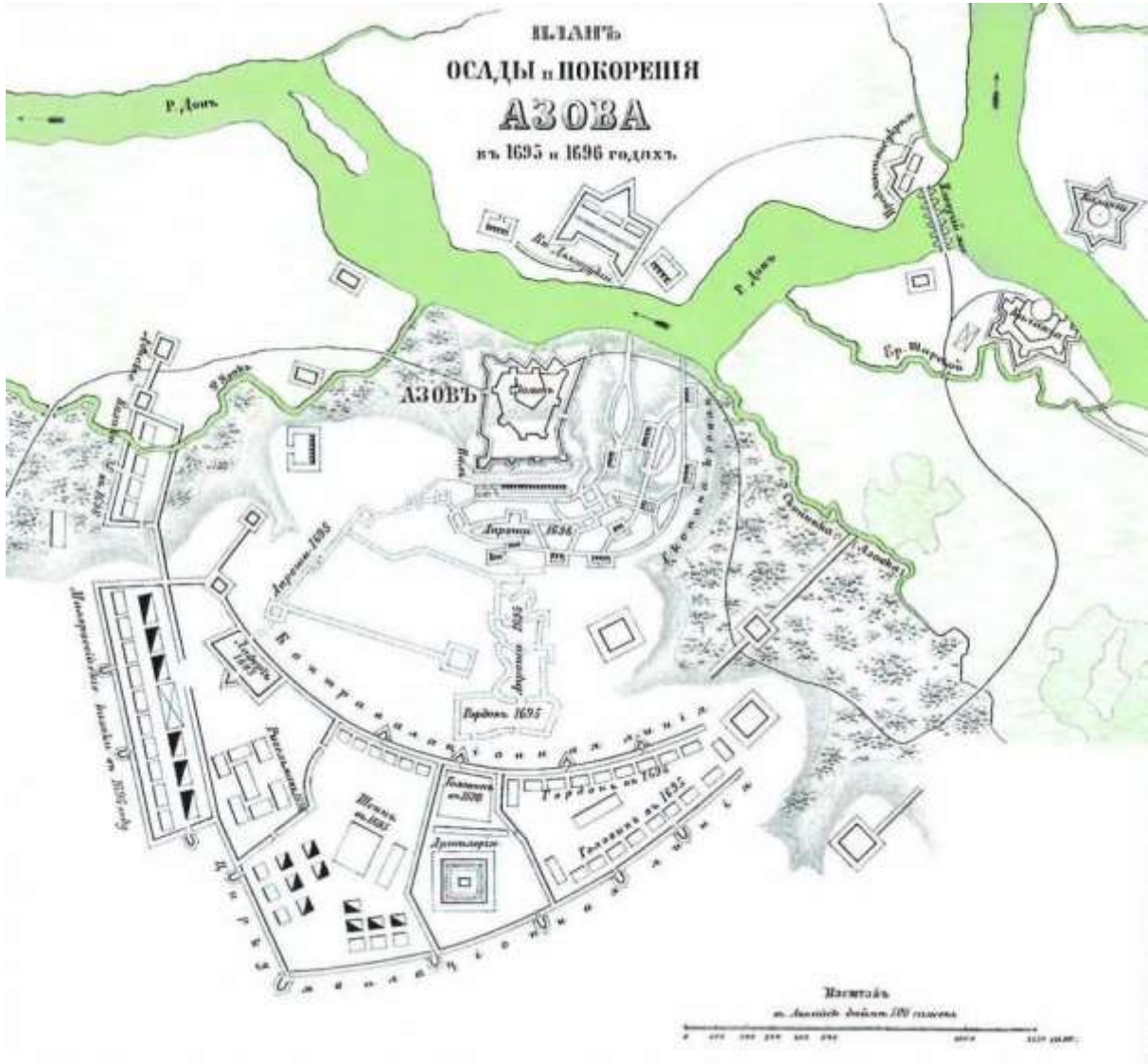


Map 3 - The Third Azov Campaign (1697)



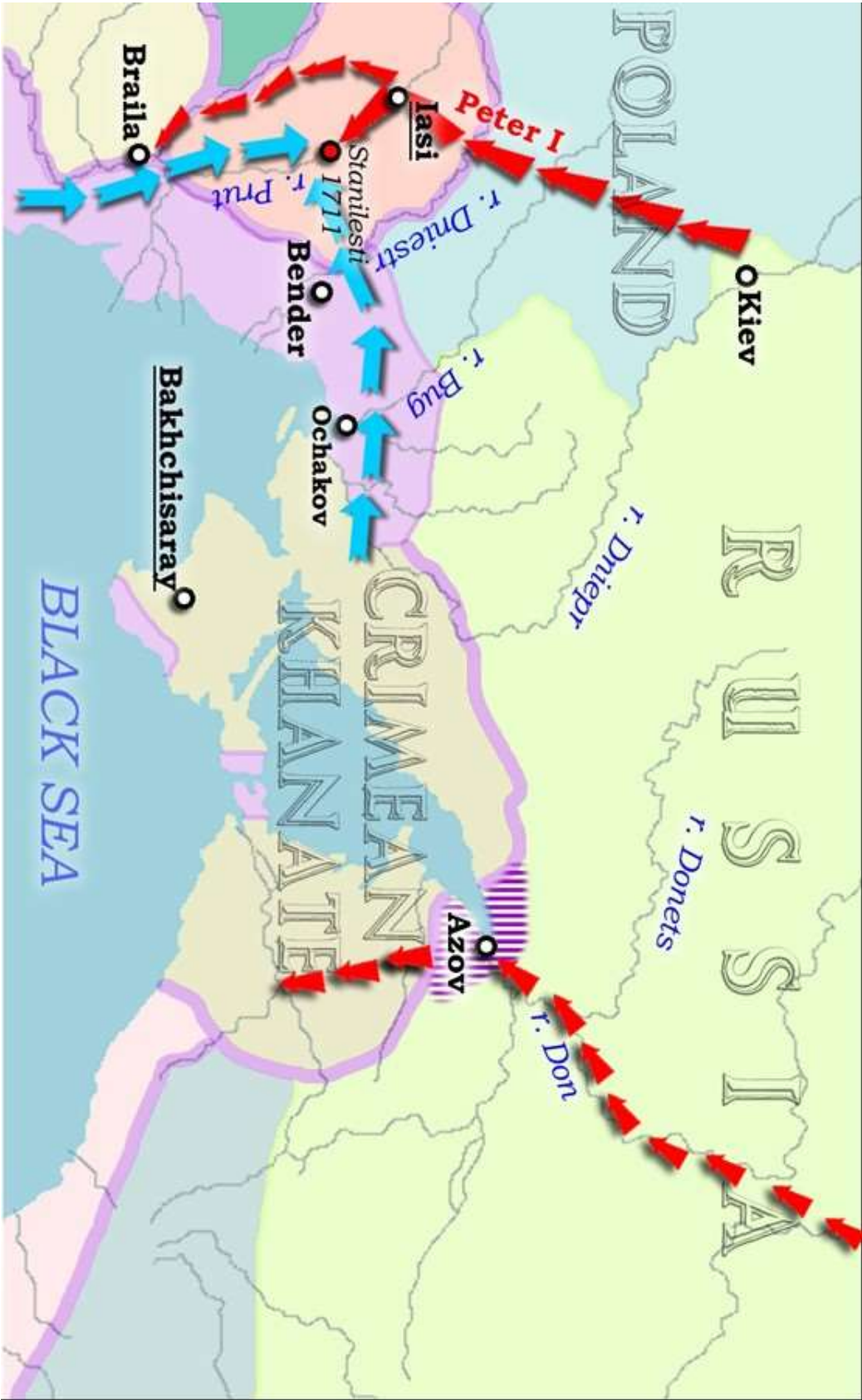
## Scheme – The Two sieges of Azov (1695, 1696)

Source: Bobrovskiy, P.O., *Istoriya 13 Leyb-grenaderskago Yerevanskogo Ego Velichestva polka za 250 let, vol. 1* (St. Petersburg, 1892)





Map 4 – the Pruth Campaign and the Kuban Campaign (1711)



**Scheme – The encirclement at Stănileși (1711)** Source: Porfiryev, E.I., *Petr I osnovopolozhnik voennogo iskusstva russkoy regulyarnoy Armii i flota* (Moscow: Voennoe izdatelstvo, 1952)

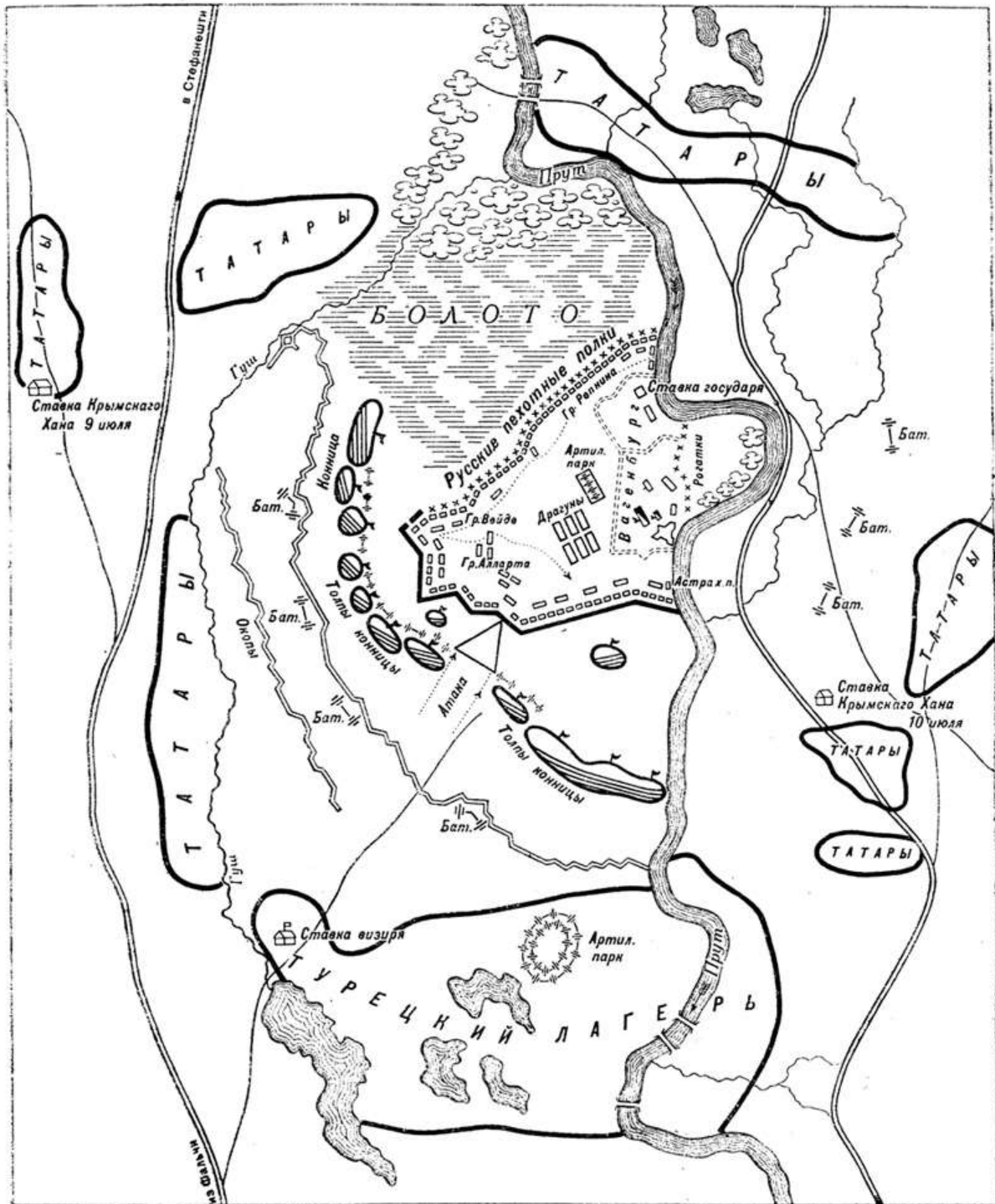


Схема 7. Операция на р. Пруте.

## PART II, CHAPTER 4

Map 1 – Europe and the East in 1721

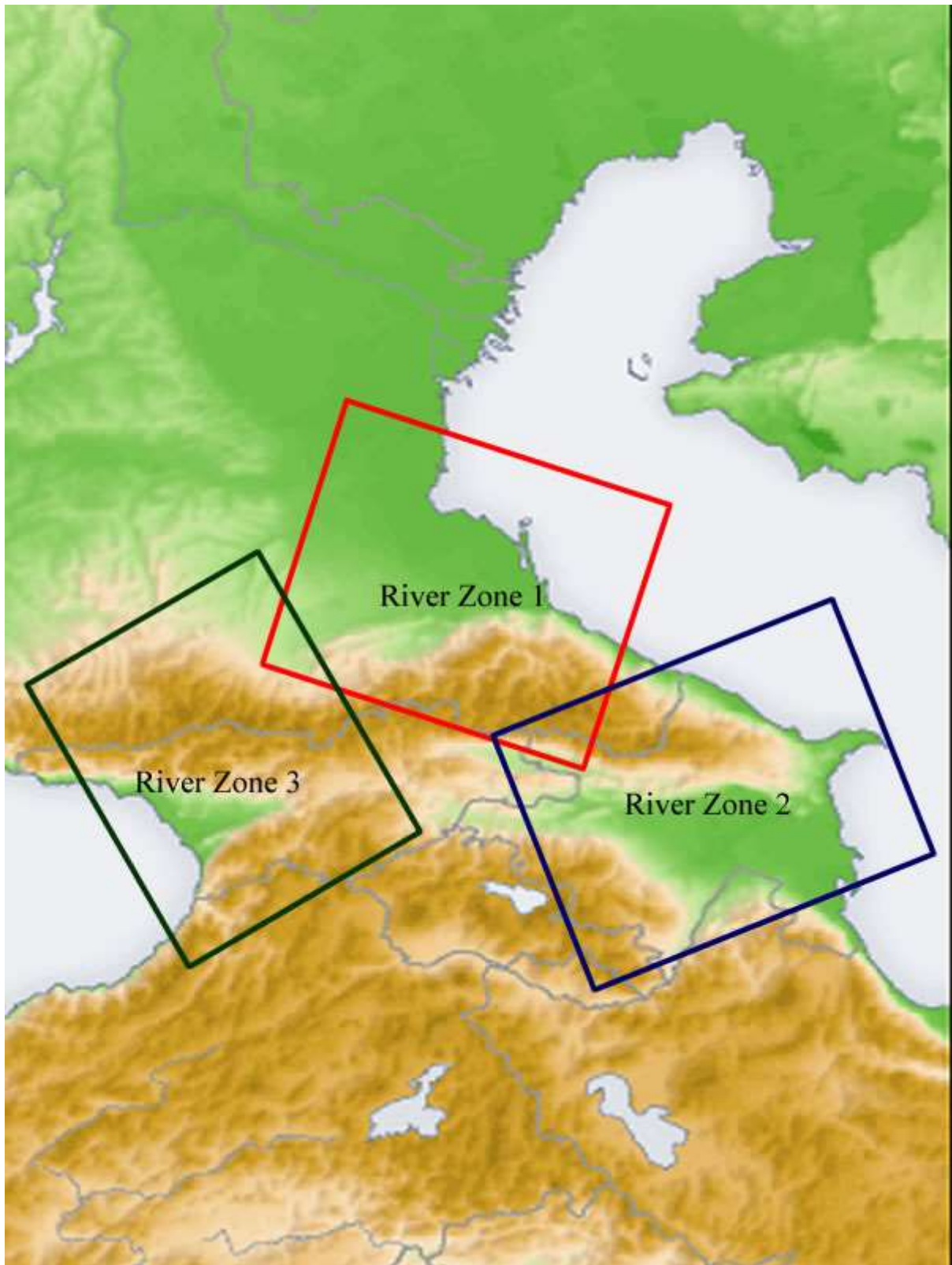




Map 2 – The Persian Campaign(1722-1723)



**Map 3 – The Caucasus and the Caspian – Topography and Rivers**





**Map 4 – Main Roads, traversing the Caucasus region**



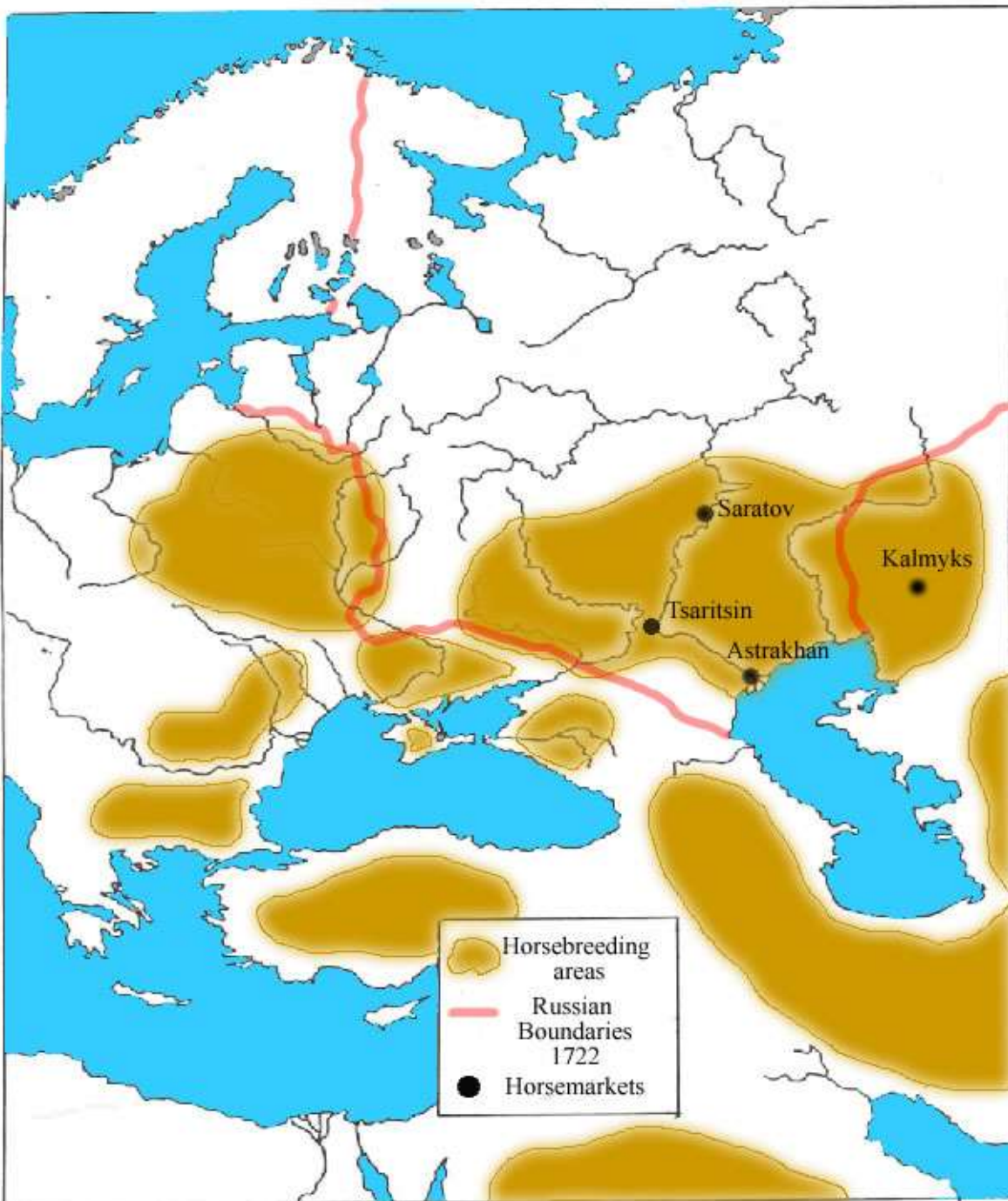
**Map 5 – Political map of the Caucasus in 1722, prior to the Persian Campaign**



The map is based on the overall literature, used in this paper



**Map 6 – Horsemarkets and Horsebreeding areas**



**Sources:** *Pokhodnyy Zhurnal 1722* (St. Petersburg, 1855); G. Ágoston, *Guns for the Sultan*; R. Murphey, *Ottoman Warfare*; R. Matthee, “Unwalled Cities and Restless Nomads: Firearms and Artillery in Safavid Iran” in C. Melville (ed.), *Safavid Persia: The History and Politics of an Islamic Society*, (London and New York: I.B. Tauris, 1996), 389-417.

**Map 7 – Harbor Locations, targeted by Peter during the 1722-23 campaign**



**Sources:** V.P. Lystsov, *Persidskiy Pokhod Petra I: 1722 – 1723* (Moscow, 1951); I.V. Kurukin, *Persidkiy pokhod Petra Velikogo. Nizovoy korpus na beregakh Kaspiya, 1722-1735* (Moscow: Kvadriga, 2010).

**Map 8 – Maximum extent of Russian control in the Caspian region (1724)**



The thick black line represents the main state borders, while the thinner lines represent the borders of the vassal states.

**Table 1 – Russian army strenght at the beginning of the Persian Campaign**

| <b>Army</b>            | <b>S. Solovyev</b> | <b>P. Bruce</b> | <b>L. Lockhart</b>    | <b>V. Lystsov</b>    | <b>I. Kurukin</b>           |
|------------------------|--------------------|-----------------|-----------------------|----------------------|-----------------------------|
| <b>Infantry</b>        | 22,000             | 33,000          | 22,000                | 21,495               | 18,602                      |
| <b>Dragoons</b>        | 9,000              | 7,000           | 9,000                 | 8,757 <sup>(2)</sup> | 8,786                       |
| <b>Cossacks</b>        | 20,000             | 20,000          | 20,000                | 16,300               | 16,300                      |
| <b>Kalmyks</b>         | 30,000             | 40,000          | 55,000 <sup>(1)</sup> | 4,000                | 4,000                       |
| <b>Sailors</b>         | 5,000              | -               | 5,000                 | -                    | -                           |
| <b>Total personnel</b> | <b>86,000</b>      | <b>100,000</b>  | <b>111,000</b>        | <b>50,552</b>        | <b>48,057<sup>(3)</sup></b> |
| <b>Vessels</b>         | -                  | 250             | 274                   | +87                  | 447 <sup>(4)</sup>          |
| <b>Guns</b>            | -                  | -               | -                     | -                    | +196                        |

**Notes:**

(1) – 20,000 Kalmyks and 35,000 Tatars

(2) - Lystsov does not give an exact number but states that there were 7 dragoon regiments. Taking a regular regimental strenght of 1,251 troops, officers and servants, the “paper” strenght of the supposed 7 regiments is calculated.

(3) - Including 369 artilerymen

(4) – This figure includes all boats and ships used during the campaign. Many of the vessels were quite small and were used to transport bagage and supplies.

**Table 2 - Weather Conditions during the 1722 Campaign**

| <u>Notes:</u>   |   |   |
|---|---|---|
| <b>Bold Text</b> – The text given in bold is drafted from Peter’s personal entries in the 1722 campaign journal     |   |   |
| (Text) – The text in normal brackets is drafted from the First Addition to the 1722 campaign journal                |   |   |
| {Text} – The text in curly brackets is drafted from the Second Addition to the 1722 campaign journal                |   |   |
| ‘ – ‘ indicates that there is no information on the climate in any of the Journal entries                           |   |   |
| <i>Text [P.Bruce]</i> – The text in italics, followed by [P.Bruce] is drafted from the Memoirs of Peter Henry Bruce |   |   |
| Date  | Weather   | Notes   |
| 18.07.1722  | <b>North – northwestern Wind;</b> (Clear weather)   | Sailing Volga   |
| 19.07.1722  | <b>Southern Wind; Later - Thunders;</b> (The weather was calm. west-south wind. Sunshine with some light rain.)   | Sailing Volga   |
| 20.07.1722  | <b>Weak south-southwestern wind;</b> (Dead-wind, clear skies)   | Sailing Volga   |
| 21.07.1722  | <b>Dead-wind until 7 p.m., then the wind turns into east-north-east; Thunders, strong wind and heavy rainfall in the evening and during the night;</b> (Strong wind until 2 p.m.; Small rainfall in the evening. Had to stay on anchor during the night, because of the weather. The wind was southeastern) | Entering the Caspian Sea  |
| 22.07.1722  | <b>North-western wind in the mornig. After 6 a.m. the wind turns south-south-east;</b> (The weather was clear; The wind was south-eastern)  | Sailing Caspian Sea   |
| 23.07.1722  | <b>Eastern wind that turns east-north-east; During the day the wind made following the course of the ships very hard. Storm and hevay rain;</b> (southeastern wind in the morning. Storm between 10 and 12 a.m.; at noon the wind turned northern and made sailing possible)                                | Reached Terki and stayed in the gulf of Terki until 26.07; Part of the fleet got lost at sea, due to lack of experienced navigators and compasses (P.Bruce) |
| 24.07.1722  | <b>Northern wind;</b> (Waited for the rest of the fleet to join before sailing south)   | In the bay of Terki   |
| 26.07.1722  | <b>Weak east-north-east wind;</b> (Tail-wind during the day. Storm in the evening)  | Sailing from Terki to Agrakhan bay  |
| 27.07.1722  | <b>North-north-western wind;</b> (...); <i>Favorable breeze [P.Bruce]</i>   | Reached Agrakhan bay  |
| 28.07.1722  | <b>Eastern wind (...)</b>   | Landed the troops   |
| 29.07.1722  | <b>Eastern wind;</b> (Eastern wind)   | Fortifying the landing until 04.08  |
| 30.07.1722  | <b>1 p.m. – west-south-west wind</b> (eastern wind)   | In Agrakhan bay   |
| 31.07.1722  | <b>North-north-eastern wind;</b> (north-western wind)   | In Agrakhan bay   |
| 01.08.1722  | <b>Strong western wind after midnight. After 8 a.m. north-western wind; after noon – north-north-western wind; After 1 p.m. – Temperate north-eastern wind; 8 p.m. – western wind; (...)</b>  | In Agrakhan bay   |



|            |   |  |
|------------|---|--|
| 02.08.1722 | <b>Strong western wind and light rainfall after 1 a.m.; (...)</b>   |  |
| 04.08.1722 | - ; <i>The heat was so intolerable that numbers of our men dropped down by the way</i> [P.Bruce]  | Fortifications built                                     |
| 05.08.1722 | -   | The army marches from the fortified camp                 |
| 06.08.1722 | ... (Great heat during the day, the army had to stop for rest in the afternoon)   | Reached the Sulak River                                  |
| 07.08.1722 | <b>Great storm from north-west that raised the level of the Sulak River. The storm continued until 11.08 (...)</b>  | Preparing to pass the river                              |
| 08.08.1722 | ... (Strong eastern wind during the entire day. Made crossing the river very slow – it took the entire day and part of the night for most of the army to cross)   | The army stops   |
| 09.08.1722 | ... (A great storm with very strong wind that made crossing the river very burdensome)  | Trying to cross the river                                |
| 10.08.1722 | -   | Still crossing the river                                 |
| 11.08.1722 | - ; <i>(We marched thirty wrests, notwithstanding the infinite heat, which made many of our men drop on the way</i> [P. Bruce]  | Marching toward Tarki                                    |
| 12.08.1722 | -   | Reached Tarki  |
| 13.08.1722 | -   | Stayed in Tarki  |
| 14.08.1722 | -   | Stayed in Tarki  |
| 15.08.1722 | -   | Stayed in Tarki  |
| 16.08.1722 | - ; <i>We marched ... in a scorching heat</i> [P.Bruce]   | Marched from Tarki to the Manas River                    |
| 17.08.1722 | - ; <i>I was reduced to walk on foot, which was extremely fatiguing in this hot climate</i> [P. Bruce]  | Marched from the Manas to Old Buinaksk                   |
| 18.08.1722 | - ; <i>We lost, this day, a number of horses, by heat...</i> [P.Bruce]  | Entered the domains of Utamysh. Reached the Inchi River. |
| 19.08.1722 | <b>Had to give the horses some rest at noon</b> [presumably because of the heat].(...)  | Battle with the sultan of Utamysh (3 p.m.)               |
| 20.08.1722 | -   | The Cossack-dragoon forces return to camp                |
| 21.08.1722 | -   | Reached the Bushbugam River                              |
| 22.08.1722 | -   | Reached the Darbakh River                                |
| 23.08.1722 | -   | Entered Derbent  |
| 24.08.1722 | <b>Great north-eastern storm that sunked 12 vessels and destroyed part of the provisions for the army (...)</b>   | In Derbent   |
| 25.08.1722 | ... ; (...); { <i>Storm from the North in the evening, that sunked some of the boats – this probably refers to the storm from the previous day. The storm probaly lasted throughout the entire 24/5 night</i> } | P. Bruce dates the storm on 25.08.                       |
| 26.08.1722 | -   | In Derbent   |



|            |   |   |
|------------|---|---|
| 27.08.1722 | -   | In Derbent  |
| 28.08.1722 | <b>2 a.m. – very strong and hot western wind - <i>It was so hot that it seemed as we were in a bath</i>; (...); {Strong and hot western wind, that soon abated}</b>   | In Derbent  |
| 29.08.1722 | ... ; (...); {Substantial rainfall}   | Held council for the future of the campaign   |
| 30.08.1722 | ... ; (...); {The day was cloudy and gloomy; there was substantial rainfall during the night)   | The infantry passes the Milyukent River   |
| 31.08.1722 | ... ; (...); {Gloomy and Rainy}   | The Usmiy refuses to provide supply for the army  |
| 01.09.1722 | ... ; (...); {Cloudy in the morning, clear skies in the afternoon}  |   |
| 03.09.1722 | -   | A fort was erected on the Darbakh River   |
| 04.09.1722 | -   | Problems with some of the vessels   |
| 06.09.1722 | -   | The army begins its march back  |
| 07.09.1722 | -   | Leaving Derbent   |
| 08.09.1722 | <b>9 p.m. – storm; (...); {Fine weather with weak wind during the day; Strong wind and a storm in the evening and during the night} ; <i>The heavy dews now began to fall in the night-time, which rendered it very cold [P.Bruce]</i></b>  | Sending envoys to Astrakhan and the fortified camp at Agrakhan  |
| 09.09.1722 | <b>The wind calmed in the evening but during the night there was again a very strong northern wind; (...); {The storm from the previous night continued during the morning; The storm stopped at noon, and it continued raining; At 3 p.m. a new storm began with a very strong and very cold northern wind. The storm continued during the evening and throughout the night. }</b> | Reached the Bushbugam River   |
| 10.09.1722 | - ; <i>We rested on the 10<sup>th</sup>, in the night of which, the hills were very thick covered with snow, which made it exceedingly cold.. [P.Bruce]</i>   | Reached the Inchi River   |
| 11.09.1722 | ... ; (...); {The skies were clear but it was cold during the entire day); <i>The night...was bitter cold [P.Bruce]</i>   | Reached the place, where they fought the Utamysh army on 19.08  |
| 12.09.1722 | - ; <i>The wind blew so hard this day, that we were almost blinded by the sand and dust.. [P.Bruce]</i>   | A Cossack detachment defeated a Dagestan band. A 10,000 Dagestani force which followed the march of the Russians; The army reached Old Buynaksk and camped there. |
| 13.09.1722 | -   | The army stayed at  |

|            |   |  |
|------------|---|--|
|            |   | Buynaksk to acquire food for the horses since there were no natural pastures in the area.  |
| 14.09.1722 | - ; <i>We were reduced so low by the continuous marching, the watching and the cold... [P.Bruce]</i>                          | Reached the Manas River. The population of Buynaksk refused to supply the Russians and allied with the Utamysh; The army was exhausted from the march, the cold and the constant state of alert because of the enemy forces that followed the Russian march. |
| 15.09.1722 | -   | Reached Tarki and bought forage for the horses.  |
| 16.09.1722 | -   | Left Tarki   |
| 18.09.1722 | ... (The morning was cloudy; In the afternoon the weather was warm)   | Reached the Sulak River  |
| 19.09.1722 | -   | Began building the St. Cross fort  |
| 20.09.1722 | -   | Finished building bridge over the Sulak  |
| 24.09.1722 | -   | Enemy raid destroyed a position near the Derbakh River   |
| 25.09.1722 | -   | The St.Cross fort was completed  |
| 26.09.1722 | -   | Began marching toward the seaside camp   |
| 27.09.1722 | -   | Boarding the fleet   |
| 28.09.1722 | -   | Sending envoys to Georgia  |
| 29.09.1722 | ... ; (...); {The Wind was south-south-east}  | Peter sailed to Terki  |
| 30.09.1722 | ... ; (...); {South-western wind until noon; Dead-wind from north-north-west in the afternoon. In the evening there was mist} | Peter left Terki for Astrakhan   |
| 01.10.1722 | ... ; (...); {Weak wind from south-south-east}  | Sailing the Caspian Sea; Bruce describes the weather as “fine”;  |
| 02.10.1722 | ... ; (...) ; {The wind changed from northwestern to northeastern}  | Sailing the Caspian Sea; Bruce describes   |

|            |   |   |
|------------|---|---|
|            |   | the weather as “fine”   |
| 03.10.1722 | <b>Great Storm from north-west. The storm ended before 7 p.m. At 7 p.m. “the sky in the South became light, as if a great fire was burning. The shining went to the West of the horizon and then to the north. The Night became bright, as if the coast around the fleet was lightened by fires”. The phenomenon lasted for 2 hours. Peter contributes this occurrence to a meteor, passing through the sky; (...); {There was a East-North-East wind in the morning; The wind became Southern at noon and again East-South-Eastern in the afternoon; Sometime after 3 p.m. a storm began, that sunk some of the boats and lasted until the evening; After the storm, there was a great brightness in the sky for some time, and when it disappeared, the night became very dark}</b> | Reached the mouth of the Volga;<br>The storm sunk at least 7 galleys from the main fleet and many of the men on board drowned (P.Bruce) |
| 04.10.1722 | <b>The day was windy. The wind shifted its direction from north to west; (...); {The weather was windy during the morning and the early afternoon, the wind shifting from north to east and then from north to west; At 1 p.m. a powerful wind came out from the north-west and the fleet had to anchor. The storm lasted until 5 p.m.; At 8 p.m. a new storm began, which continued until midnight}</b>  | Peter entered Astrakhan; Most of the fleet remained at sea because of the storms;   |
| 15.10.1722 | -   | The entire army reached Astrakhan   |

**Table 3 – Weather Summary for the 1722 campaign**

| Total days of campaign   | Total days at sea | Total days in march                            | Total days in “rest” | Total number of storms | Storms at sea | Storms during marching  | Total days of heat       |
|--|-------------------|--|----------------------|------------------------|---------------|-------------------------|--------------------------|
| 87   | 27                | 23   | 30                   | 13                     | 5             | 8                       | 8                        |
| Total days with calm weather   |                   | Total days of bad weather (rain, cold, storms) |                      | Storm per days at sea  |               | Storm per marching days | Heat per days marching   |
| 14   |                   | 20   |                      | 1 per 5.4 days at sea  |               | 1 storm per 2.87 days   | 1 per 2.87 days in march |
| <b><u>Notes:</u></b>   |                   |  |                      |                        |               |                         |                          |
| <p>The Journal and the Memoirs of P. Bruce do not give information on the weather during the days, in which the army was not marching (i.e. the days spent in Tarki and Derbent). Therefore the storm/day ratio is calculated taking only the days in which the army was moving.</p> <p>After 08.09.1722 the temperatures at night fell drastically and the night became extremely cold.</p> |                   |  |                      |                        |               |                         |                          |

**Sources:** *Pokhodnyy Zhurnal 1722* (St. Petersburg, 1855); P.H. Bruce, *Memoirs of Peter Henry Bruce, Esq. - a military officer in the services of Prussia, Russia, and Great Britain, containing an account of his travels in Germany, Russia, Tartary, Turkey, and the West Indies, &c, as also several very interesting private anecdotes of the Czar, Peter I of Russia*, (Dublin, 1783).

**Table 4 – Distances and march speed (1722)**

| Day           | From - To                       | Distance  | Notes   |
|---------------|---------------------------------|---|---|
| 18-19.07.1722 | Astrakhan – Troytskiy dyke      | 25 verst (26.5 km)  | The army is sailing from Astrakhan to the Caspian Sea   |
| 19.07.1722    | Troitski dyke – Dvortsoviy dyke | 30 verst (31.8 km)  | Sailing the mouth of Volga  |
| 26.07.1722    | Terki-Agrakhan                  | 50 verst (53 km) (not the entire distance but only for the day) | Sailing the Caspian Sea   |
| 27.07.1722    | Terki-Agrakhan                  | -   | Reached Agrakhan bay  |
| 05-06.08.1722 | Agrakhan-Sulak                  | 31 verst (32.86 km) (entire distance)                           | Marching from Agrakhan to the Sulak River (Bruce states that the army marched 25 verst on 04.08 and additional 5 verst on 05.08)  |
| 06.08.1722    | Agrakhan-Sulak                  | 15 verst (15.9 km) (only that day)                              | Peter reached the Sulak River   |
| 11.08.1722    | Sulak-wells before Tarki        | 26 verst (27.56 km)   | Marched the entire day from 5 a.m.; P.Bruce claims that the army marched 30 verst this day. This is to great extent impossible, since the Journal claims that the wells were 8 verst from Tarki and not 11. However, after estimating a march of 26 verst the first day, the Journal claims a total of 37 verst for the entire route from the Sulak to Tarki. In this particular case it is better to rely on the |

|               |   |   |   |
|---------------|---|---|---|
|               |   |   | Journal since the distance is confirmed in two separate sections.   |
| 12.08.1722    | Night camp - Tarki                      | 11 verst (11.66 km) (for four hours)  | Reached Tarki   |
| 11-12.08.1722 | Sulak River - Tarki                     | 37 verst (39.22 km)   | Total Distance  |
| 16.08.1722    | Tarki – the Manas River                 | 25 verst (26.5 km)  | Marched the entire day from 5 a.m. Distance is also confirmed by P.Bruce  |
| 17.08.1722    | the Manas River – Old Buynaksk.         | 14 verst (14.84 km) (only in the morning); 30 verst (31.8 km) the entire distance (P.Bruce)   | Marched to Old Buynaksk until 9 p.m.; Reached Old Buynaksk, where there was a well. Peter went further 5 verst to explore the mountain    |
| 18.08.1722    | Old Buynaksk – the Inchi River          | 25 verst (26.5) km  | This distance is included only in P. Bruce. However, it fits the general daily pattern of the Russian march both in distance and in time. |
| 19.08.1722    | The Ichi River- Utamysh                 | +20 verst (+21.2 km) (This distance was covered by the dragoons and the Cossacks, following the retreating forces of the Sultan of Utemish. This was the distance between the battlefield near Buynaksk and the “capital” of Utamysh. | Battle against the army of Utamysh.   |
| 21.08.1722    | The Inchi River – the Bushbugam River   | 27 verst (28.62 km)   | Marched the entire day from before 6a.m. to 6 p.m. with a brief rest at noon.   |
| 22.08.1722    | The Bushbugam River – the Derbakh river | 15 verst (15.9 km)  | Marched with several rests.   |
| 23.08.1722    | The Derbakh River - Derbent             | 15 verst (15.9 km)  | Only appears in P.Bruce’s Memoirs   |
| 24.08.1722    | Derbent camp – the Milyukent River      | 13 verst (13.78 km)   | Peter send a detachment further south from Derbent to cross the Milyukent River and to look for a suitable place to                       |

|                                      |  |   |  |
|--------------------------------------|--|---|--|
|                                      |  |   | build a port, since Derbent was considered inappropriate   |
| 30.08.1722                           | Derbent camp – the Milyukent River           | 13 verst (13.78 km)   | Peter sent his infantry toward the position, previously established by the detachment. There, the army was better supported by the navy. The infantry covered the distance in <b>3 hours</b> . |
| 06.09.1722                           | The Milyukent River - Derbent                | 13 verst (13.78 km)   | The army returned to Derbent, beginning its march in the morning and reaching the city at noon.  |
| 06.09-13.09.1722                     | Derbent – Old Buynaksk                       | 82 verst<br>(15 verst/15.9 km on 07.09;<br>15 verst/15.9 km on 09.09;<br>24 verst/ km on 11.09) | The army followed its old route; Rested on 08.09 and on 10.09; Reached the Inchi River on 11.09 (P. Bruce)   |
| 14.09.1722                           | Old Buynaksk – the Manas River               | 30 verst (31.8 km)  | The army marched the entire day. The speed was the same as during the march south.   |
| 15.09.1722                           | The Manas River – Tarki                      | 25 verst (26.5 km)  | Marched the entire day from “early morning”. Probably maintained the same speed as on the way south.   |
| 16.09.1722                           | Tarki – Wells on the road to the Sulak River | 10 verst (10.6 km)  | Began march at 3 p.m.; Distance confirmed by P.Bruce   |
| 17-18.09.1722                        | Wells – the Sulak River (St.Cross Fort)      | 52 verst ( km) – 27 verst on 17.09; 25 verst on 18.09   | Had to extend their route to overcome a swamp, being misled by a local guide. Stopped several times because of lack of water and to give rest to the troops.                                   |
| 01.10.1722                           | St. Cross - Agrakhan fortified camp          | 30 verst (31.8 km)  | Noted only by P. Bruce   |
| <b>South March distance</b>          |  | 221 verst ( 234.26 km)  | 11 days of marching;   |
| <b>Medium marching speed per day</b> |  | 20 verst (21.2 km)  | -  |

|  |                                |                         |
|--|--------------------------------|-------------------------|
| <b>Northern March</b>  | 242 verst (256.52 km)          | 12 days of marching     |
| <b>Medium Marching speed per day</b>   | 20.1 verst (21.3 km)           | -                       |
| <b>The entire campaign (From the departure of the Agrakhan fortified camp until the return to Agrakhan fortified camp)</b> | <b>Total distance covered:</b> | <b>Days of Campaign</b> |
|  | 463 verst (490.78 km)          | 43                      |
|  | <b>Overall MMS</b>             | <b>Days Marching</b>    |
|  | 20.1 verst (21.3 km)           | 23                      |

**Notes:** 1 verst = 500 sazhen = 1.06 km; MMS – Medium Marching Speed per day

**Sources:** *Pokhodnyy Zhurnal 1722* (St. Petersburg, 1855); P.H. Bruce, *Memoirs of Peter Henry Bruce, Esq.*

**Table 5 - Engagements during the 1722 campaign**

| Date       | Place                          | Casualties  | Notes   |
|------------|--------------------------------|---|---|
| 23.07.1722 | Endirey, Circassia             | 70, a dozen wounded/<br>89 killed, 115<br>wounded | Russian cavalry destroyed the main settlement of the Endirey, killing 300 enemy fighters and burning 3,000 houses. (Bruce estimates the number of killed Endireys at 5 000); Kurukin estimates the Russian casualties at 89 killed and 115 wounded. |
| 19.08.1722 | Near the Inchi River, Dagestan |   | The Russian army was attacked by the forces of Utamysh (6-12,000). 500-700 enemies were killed and 30-40 were captured (and later 26 were executed). The Cossacks and dragoons managed to capture the capital of Utamysh and to plunder it.         |
| 12.09.1722 | Near Buynaksk, Dagestan        | 2 captured  | Cossack vanguard was attacked by enemy skirmishers during the entire night. The Cossacks captured 3 Tatars (P.Bruce)  |

|   |  |                                      |   |
|---|--|--------------------------------------|---|
| 14.09.1722  | Fort on the Derbakh River, Dagestan                    | 130 (entire garrison)                | Attacked for four days by 10,000 troops of Usmi, Utamysh and Surkhai; The defenders managed to kill 400 from the Dagestani army.  |
| 19.09.1722  | Fort on the Milyukent River, south of Derbent, Shirvan | 5 killed, 8 wounded                  | Managed to repulse a four-day siege of Dagestani forces.  |
| 20.09.1722  | Near Buynaksk, Dagestan                                | ???                                  | A detachment of 1,000 Cossacks and 4,000 Kalmyks killed 500 enemy troops and captured 350; Also captured 7,000 cows and 4,000 sheep.  |
| 21-22.09.1722   | Fort on the Milyukent River, near Derbent, Shirvan     | 7 killed                             | The Russians managed to repulse the enemy assaults and killed 80-100 enemies, among which 3 “paşas”; Part of the fort was damaged due to the heavy rains and the enemy fire. The commander of the fort decided to abandon the position and retreat with all his men and supplies to Derbent. The retreat took place on the 27.09.1722 |
| <b>Total Russian Combat Casualties</b>  | <b>212- 241 killed, 20-123 wounded, 2 captured</b>     | <b>Total Enemy Combat Casualties</b> | <b>1,926 – 2,126 killed, 357-367 captured</b>   |
| <b>Sources:</b> <i>Pokhodnyy Zhurnal 1722</i> (St. Petersburg, 1855); P.H. Bruce, <i>Memoirs of Peter Henry Bruce, Esq.</i> ; I.V. Kurukin, <i>Persidkiy pokhod Petra Velikogo. Nizovoy korpus na beregakh Kaspiya, 1722-1735</i> (Moscow: Kvadriga, 2010). |  |                                      |   |



**Table 6 - Fortifications, built or strengthened during the 1722 campaign in Dagestan and 1723 campaign in Persia**

| <b>Fortress</b>       | <b>Garrison</b>   | <b>Notes</b>  |
|-----------------------|---|---|
| Tarki                 | 2,000 regular, 1,000 Cossacks, 31 cannons   | <i>Well fortified, with ramparts and bastions in the modern style (Bruce)</i>   |
| Agrakhan landing base | 200 /300 regular troops and 1,500/1,600 Cossacks  | Left to protect the landing base and the fleet.   |
| the Derbakh River     | 110 regulars and 20 Cossacks  | The garrison was destroyed by the Dagestani forces on 14.09.1722  |
| the Milyukent River   | 200 regulars and 300 Cossacks (P.Bruce)   | Built between 25.08-05.09. Consisted of <i>“four battalions, surrounded by a moat, into which water from the river [Milyukent] was led”</i> (P.Bruce, who commanded the building of the fort ); Abandoned after enemy raid on 21-22.09.1722   |
| St. Cross             | 1,384 soldiers (729 regular, 655 irregular), 21 cannons, sufficient gunpowder and ammunitions   | P.Bruce, who drew the plans for the fort describes it as follows: <i>“the plan consisted of five bastions, and two demi-bastions next the river on the south-side, with ravelins and a palisaded covered way; on the north-side were six bastions, also with ravelins and a palisaded covered way; the two sided to communicate by a bridge in the middle, over the river”</i> Bruce states that Peter left brigadier veterani with 18,000 (7,000 dragoons, 5,000 regular infantry and 6,000 Cossacks) troops to finish the fort and protect the works. |
| Derbent               | 1,321 soldiers + 300 Cossacks/ 3,000 troops, 150 cannons; These forces were strengthened by 1,200 Cossacks, two infantry battalions and 20 cannons in | Additional 300 Cossacks were sent to two field fortifications near Derbent; P. Bruce estimates a total of 3,000 garrison troops, 100 iron and 50 brass cannons of 12 and 9 pounds, along with   |

|  |   |   |
|--|---|---|
|  | the spring of 1723  | an abundant supply of ammunitions and gunpowder. However, the numbers given by Bruce might be exaggerated. Otherwise, they might include a number of cannons that were already in Derbent (this is evident in the Journal). |
| the Inchi River  | 100 regulars and 200 Cossacks   | Noted only in P.Bruce   |
| Resht  | 3,110 troops, +24 guns  | By June 1723  |
| Baku   | 4 regiments (5,000 troops)  | By July 1723; According to Lockhart, the army that marched against Baku numbered 3,000.   |
| <b>Total garrison troops</b>   | <b>16,715 /18,094 soldiers, +96/+246 cannons</b><br>(14,715/16,094 according to Lockhart's account) | In addition, there was a field force of some 22,000 Cossacks and dragoons near St. Cross fort.  |
| <b>Sources:</b> <i>Pokhodnyy Zhurnal 1722</i> (St. Petersburg, 1855); P.H. Bruce, <i>Memoirs of Peter Henry Bruce, Esq</i> ; V. Lystsov, <i>Persidskiy Pokhod Petra I</i> ; I.V. Kurukin, <i>Persidkiy Pokhod Petra Velikogo</i> . |   |   |

**Table 7 – Russian Garrisons as of 01.10.1724**

| Place                         | Infantry and dragoons | Place             | Infantry and dragoons |
|-------------------------------|-----------------------|-------------------|-----------------------|
| Astrakhan                     | 2,483                 | Rest              | 3,974                 |
| Agrakhan fortified camp       | 421                   | Catherinople Fort | 182                   |
| St. Cross fort                | 6,147                 | Kesker            | 1,396                 |
| Derbent                       | 2,686                 | New fort          | 440                   |
| Baku                          | 3,017                 | Peribazar         | 178                   |
| Near Anzali                   | 51                    |                   |                       |
| <b>Total number of troops</b> |                       | <b>20 975</b>     |                       |

Source: V.P. Lystsov, *Persidskiy Pokhod Petra I: 1722 – 1723* (Moscow, 1951), 149.

**Table 8 - Supplies and provision problems during the Persian Campaign**

| Date       | Type   | Notes                      |
|------------|--|----------------------------|
| 21.07.1722 | Brigadier Veterani reports that the horses are dying out in the steppe, because of the weather; The supplies of the cavalry were depleted; | Noted by I. Kurukin (p.61) |

|                  |   |   |
|------------------|---|---|
| 28.07-04.08.1722 | <i>Circassian and Dagestan Tatars</i> came to sell oxen, camels, horses and wagons to the army  | The Journal does not mention this, but P. Bruce reports that the army purchased the goods on the prices, set by the “Tatars”. He, himself, bought a wagon and two horses.   |
| 05.08.1722       | <i>“The Tartars brought such quantities of grapes, melons, oranges, pomegranates, apples, pears etc. and our people devoured them so voraciously, that many were seized with fevers and fluxes”</i> (P.Bruce)   | Having marched for three days in the heat, the soldiers were surely starving for the refreshment which fruits offered. At this early stage of the campaign it is unlikely that the army lacked food supplies, thus it was not hunger but heat and exhaustion that made the troops so “voracious”. |
| 06.08.1722       | Over 7,000 oxen ( <i>Additional note to the Journal III</i> ) and 600 carriages brought by the shamkhal Adil Girei and sultan Mahmut of Aksay; Peter was given 6 horses as a personal gift;<br><i>“The governor of Gorski and the governor of Axay rought his majesty nine Persian horses with rich furniture, six hundred wagons, drawn by two oxen each and 150 oxen to be killed for the army”</i> (P.Bruce) | These provisions were arranged before the departure from Astrakhan;<br>The gift of oxen for the army’s feast is also confirmed by an <i>Additional note to the campaign journal IV</i> (100 oxen are mentioned there, together with 7 horses for Peter).  |
| 11.08.1722       | The army remains without water the entire day, because the wells (in reality only 10), which the shamkhal had to arrange were badly dug and the water inside was muddy; Several horses died from eating poisonous herbs. The camels and oxen did not suffer from it. (P.Bruce)  | As with the oxen and the carriages, the shamkhal was supposed to provide water supplies for the Russian army on its way to Tarku.   |
| 12-23.08.1722    | The water supply was provided from old wells, which were well-dug   | Peter did not rely on Girei’s support any more during his march south.  |
| 16.08.1722       | The army replenishes with water from Manes rivers, but since there was no forage for the horses, they were sent upstream to the mountain for pasture. There, part of the  | This event is noted only in P.Bruce’s memoirs.  |

|  |  |  |
|--|--|--|
|  | animals was stolen by the Tatar forces, which were following the Russian movement since the departure from Sulak river.  |  |
| 18.08.1722   | The citizens of Derbent refused to sell their cattle to the Russians;<br>Some of the horses died from fatigue, lack of forage and water.                             | Locals said that they cattle only enough to meet their own needs. It seems that the Russians needed additional cattle for food and to pull the supply train and the carriages;<br>The death of the horses was again noted only in Bruce. |
| 24.08.1722   | 1,500 horses died from eating poisonous grass; The oxen and the camels were not affected, since they did not eat from it.  | This is noted only in P.Bruce's Memoirs.   |
| 26.07.1722   | The flour, rescued from the destroyed ships was distributed to the soldiers and backed into sukhari.   | Noted in P.Bruce's Memoirs.  |
| 27.08.1722   | The army was transferred to the Milyukent River in order to receive provisions from the fleet – bread and sukhari and also to gather fruits from the local orchards. | A storm destroyed part of the supply fleet off Derbent. Peter noted that the army had provisions for only one month. The Russians tried to use local fruits to compensate the lack of other food.  |
| 10.09.1722   | Extreme cold and snow in the evening. The army lacked winter uniforms and suffered greatly.  | Noted only in P.Bruce's Memoirs  |
| 13.09.1722   | Several hundred horses died by eating poisonous grass.   | Noted only in P. Bruce   |
| 01-15.10.1722  | Insufficient food supplies on the ships, returning from Agrakhan.  | Noted only in P.Bruce's Memoirs.   |
| <b>Sources:</b> <i>Pokhodnyy Zhurnal 1722</i> (St. Petersburg, 1855); P.H. Bruce, <i>Memoirs of Peter Henry Bruce, Esq.</i> ; I.V. Kurukin, <i>Persidkiy pokhod Petra Velikogo</i> . |  |  |

**Table 9 – Medicine support for the campaign (1724)**

| Place          | Number of beds |
|----------------|----------------|
| Astrakhan      | 3,000          |
| St. Cross fort | 1,000          |
| Derbent        | 1,000          |
| Baku           | 2,000          |

Source: V. Lystsov, *Persidkiy Pokhod Petra I: 1722 – 1723* (Moscow, 1951), 211.

**Table 10 – Casualties during the Persian Campaign (1722 – 1724)**

| Year  | Died   | Drowned | Killed | Removed from service | Deserted | Total  |
|-------|--------|---------|--------|----------------------|----------|--------|
| 1722  | 2,779  | 17      | 193    | 382                  | 93       | 3,464  |
| 1723  | 3,752  | 5       | 33     | 6                    | 75       | 3,871  |
| 1724  | 3,652  | 24      | 41     | 441                  | 52       | 4,210  |
| Total | 10,183 | 46      | 267    | 829                  | 220      | 11,545 |

Source: V. Lystsov, *Persidskiy Pokhod Petra I: 1722 – 1723* (Moscow, 1951), 241.

**Table 11 – Additional Military Expenditure for the Persian Campaign of 1722**

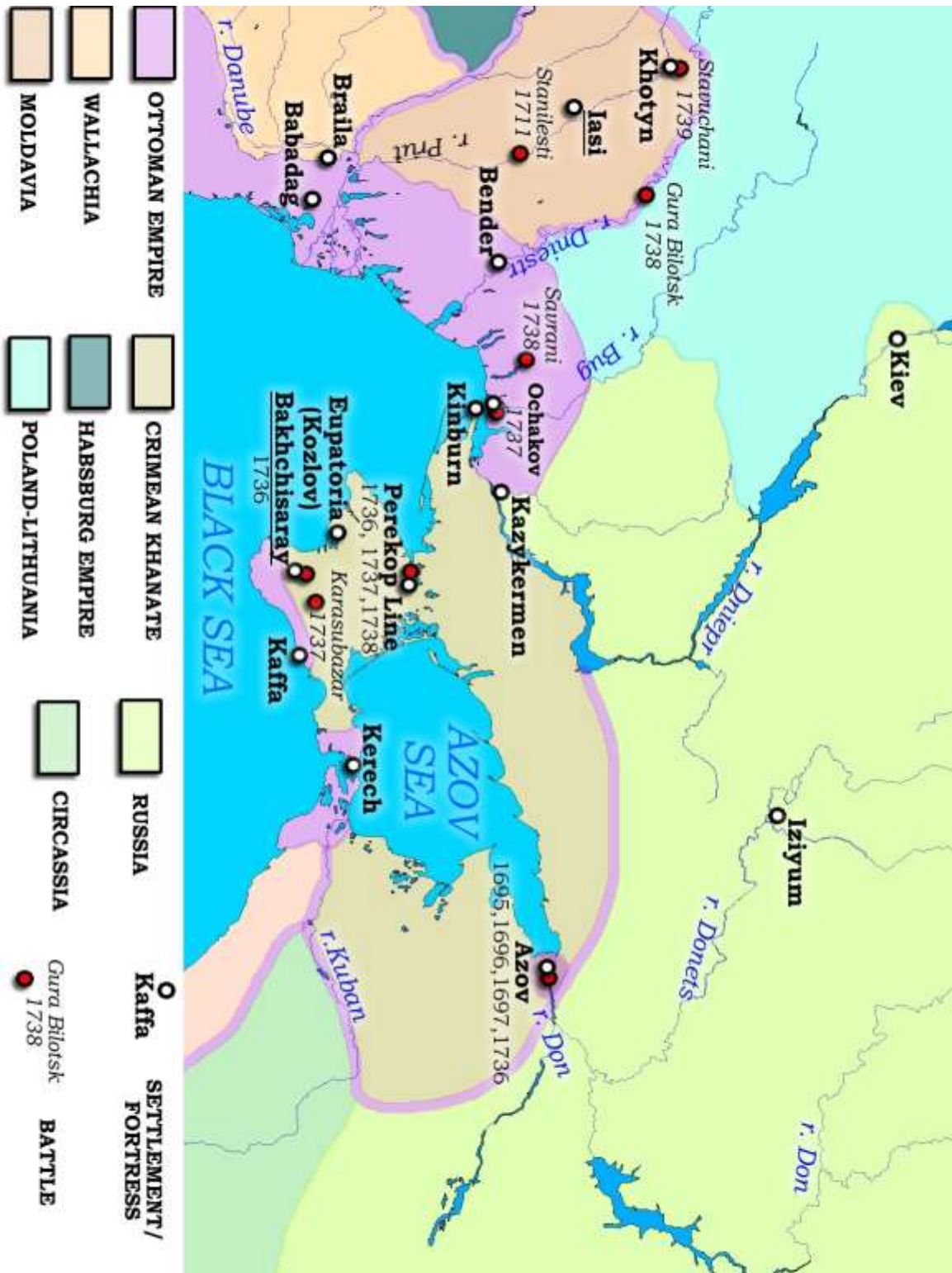
| For  | Money (in rubles)      |
|--|------------------------|
| Provisions                                 | 320,048                |
| Admiralty                                  | 323,057 <sup>(1)</sup> |
| <b>Total for ships, guns and munitions</b> | <b>681,574</b>         |
| Gifts for the Kalmyk khan                  | 6,000                  |
| Gifts for the Kalmyk horsemen              | 25,000                 |
| The embassy in Istanbul                    | 17,500                 |
| Resin for Astrakhan                        | 1,413                  |
| Medications                                | 13,512                 |
| <b>Total military expenditure 1722</b>     | <b>1,045,000</b>       |

**Notes:** (1) Not all of this money was spent on the Persian Campaign

**Source:** I.V Kurukin, *Persidkiy pokhod Petra Velikogo*, 84.

## PART II, CHAPTER 5

Map 1 – The Russo-Ottoman War of 1736-1739

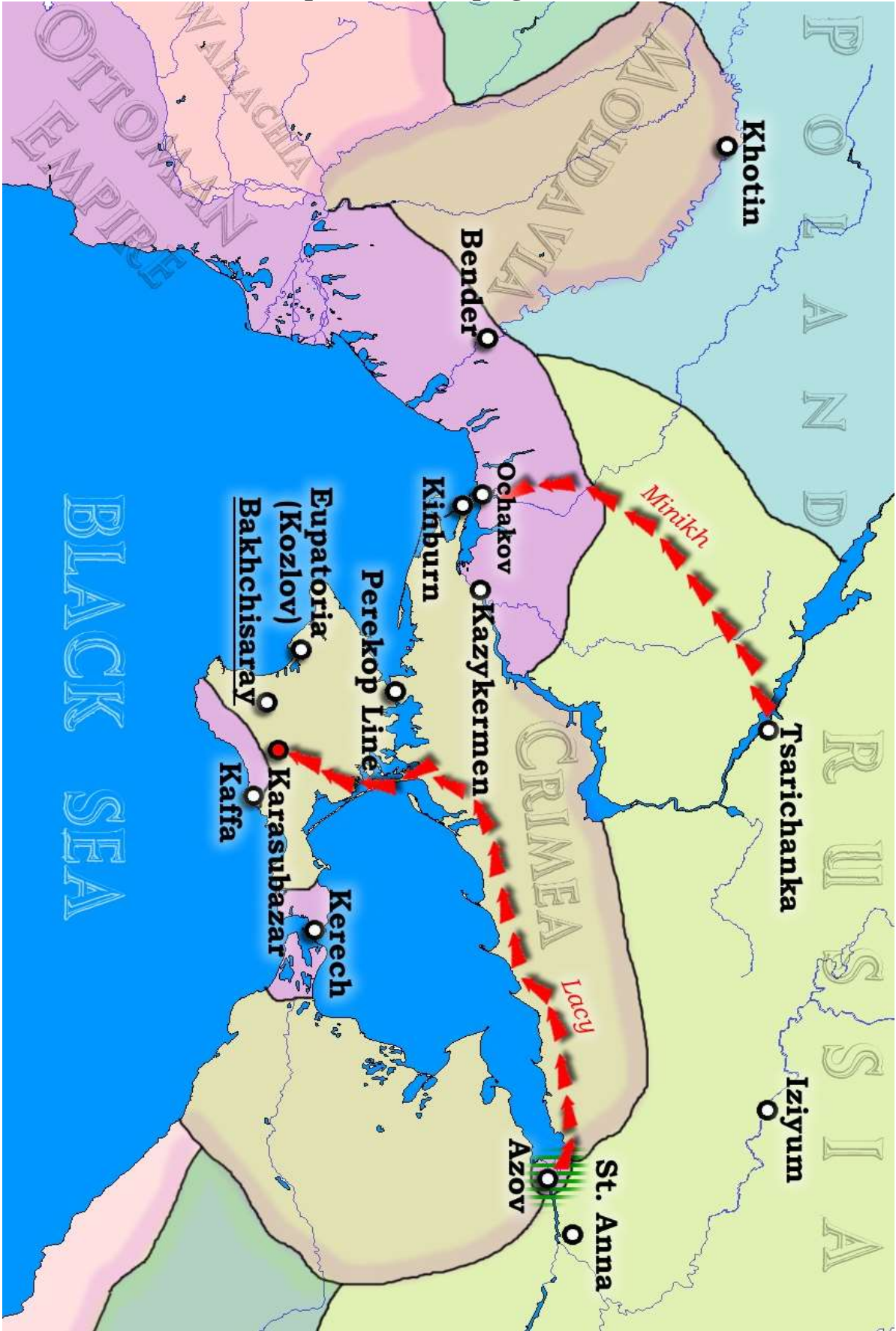


Map 2 – the campaign of 1736





Map 3 – The campaign of 1737





Map 4 – The campaign of 1738



Map 5 – the campaign of 1739



**Table 1 -1 – Dnieper Army  
Supposed and actual army strength during the 1736-1739 campaigns**

| Year                          | 1736          |               | 1737              |                  | 1738             |                    | 1739          |                           |
|-------------------------------|---------------|---------------|-------------------|------------------|------------------|--------------------|---------------|---------------------------|
|                               | SS            | AS            | SS                | AS               | SS               | AS                 | SS            | AS                        |
| <b>Reg. infantry</b>          | <b>24,372</b> | <b>28,238</b> | <b>50,580</b>     | <b>28 reg.</b>   | <b>50,580</b>    | <b>22 reg.</b>     | <b>34,826</b> | <b>58,000</b>             |
| <b>Dragoons</b>               | <b>19,665</b> |               | <b>25,851</b>     | <b>20 reg.</b>   | <b>25,850</b>    | <b>18 reg.</b>     | <b>19,760</b> |                           |
| <b>Land Militia</b>           | <b>10,000</b> | <b>10,000</b> | <b>9,693</b>      | <b>9 reg.</b>    | <b>9,693</b>     |                    |               |                           |
| <b>Guard infantry</b>         |               |               | <b>2,757</b>      |                  | <b>3,158</b>     |                    |               |                           |
| <b>Guard cavalry</b>          |               |               | <b>401</b>        | <b>2 sq.</b>     |                  |                    | <b>3,124</b>  |                           |
| <b>cuirassiers</b>            |               |               |                   | <b>1 sq.</b>     | <b>600</b>       | <b>600</b>         | <b>965</b>    |                           |
| <b>hussars</b>                | <b>500</b>    | <b>300</b>    |                   | <b>1,600</b>     | <b>900</b>       | <b>900</b>         | <b>1,000</b>  |                           |
| <b>Cossacks &amp; Kalmyks</b> | <b>30,030</b> | <b>18,540</b> | <b>13,000 (1)</b> | <b>13,000</b>    | <b>13,500</b>    | <b>3 reg. (5)</b>  | <b>14,800</b> |                           |
| <b>Other</b>                  |               |               | <b>2,842 (2)</b>  | <b>3,000</b>     | <b>4,000 (3)</b> |                    | <b>6,430</b>  |                           |
| <b>Artillery</b>              | <b>66</b>     |               | <b>389</b>        |                  | <b>733 (4)</b>   |                    | <b>606</b>    | <b>262</b>                |
| <b>TOTAL</b>                  | <b>85,067</b> | <b>58,078</b> | <b>105,124</b>    | <b>60-70,000</b> | <b>108,281</b>   | <b>50 – 80,000</b> | <b>91,111</b> | <b>63,800 / 60-65,000</b> |

SS – Supposed strength

AS – Actual strength

Source: Bayov, A.K., *Russkaya armiya v tsarstvovanie imperatritsy Anny Ioannovny – Voina Rossii s Turtsiey v 1736-39, vol. 1-2* (St. Petersburg, 1906)

Notes:

(1) including hussars and Wallachians

(2) Artillery men

(3) 3,000 artillery men and 1,000 regular Cossacks

(4) 262 guns of different caliber, 11 mortars, 16 howitzers, as well as 444 smaller mortars

(5) Several thousand joined later

**Table 1 - 2 – Don Army  
Supposed and actual army strength during the 1736-1739 campaigns**

| Year                          | 1736             |                  | 1737              |                  | 1738           |                                     | 1739          |                       |
|-------------------------------|------------------|------------------|-------------------|------------------|----------------|-------------------------------------|---------------|-----------------------|
|                               | SS               | AS               | SS                | AS               | SS             | AS                                  | SS            | AS                    |
| <b>Reg. infantry</b>          | <b>24,372</b>    | <b>5,800</b>     | <b>33,720</b>     | <b>20 reg.</b>   | <b>25,290</b>  | <b>15 reg.</b>                      | <b>23,745</b> | <b>7 reg.</b>         |
| <b>Dragoons</b>               | <b>5,175</b>     | <b>1,250</b>     | <b>16,003</b>     | <b>13 reg.</b>   | <b>8,569</b>   | <b>7 reg.</b>                       | <b>8,593</b>  | <b>6 reg.</b>         |
| <b>L. Militia</b>             |                  |                  |                   |                  | <b>6,462</b>   | <b>6 reg.</b>                       | <b>6,804</b>  | <b>3 reg.</b>         |
| <b>Cossacks &amp; Kalmyks</b> | <b>8,000</b>     | <b>2,200</b>     | <b>15-16,000</b>  | <b>10-12,000</b> | <b>25,000</b>  | <b>13,385</b>                       | <b>15,000</b> | <b>4 reg.</b>         |
| <b>Other</b>                  | <b>6,770 (1)</b> |                  |                   |                  |                |                                     |               |                       |
| <b>Artillery</b>              | <b>284</b>       | <b>135</b>       | <b>32</b>         |                  | <b>170 (4)</b> | <b>25</b>                           | <b>146</b>    |                       |
| <b>TOTAL</b>                  | <b>45,352</b>    | <b>9,250 (2)</b> | <b>63,723 (3)</b> | <b>35,630</b>    | <b>65,321</b>  | <b>53,706 (5)<br/>30-35,000 (6)</b> | <b>54,147</b> | <b>&gt;25,000 (7)</b> |

SS – Supposed strength

AS – Actual strength

Source: Bayov, A.K., *Russkaya armiya v tsarstvovanie imperatritsy Anny Ioannovny – Voina Rossii s Turtsiey v 1736-39, vol. 1-2* (St. Petersburg, 1906)

Notes:

- (1) Garrison foot and dragoon regiments
- (2) This number would eventually rise to 11,874 in May 1736 and to 28,000 by the end of June
- (3) 9 000 were to be left as a garrison of Azov
- (4) 86 regimental guns, 16 siege guns, 4 mortars, 4 howitzers and 60 smaller mortars
- (5) If the regular regiments were with the supposed strenght
- (6) In Manstein's account. This would presume undermanned regiments. Given the lack of troops in the Dnieper army, Manstein's estimate seems more plausible.
- (7) Less than 25,000, probably no more than 20,000, due to the fact that regiments were incomplete. In August he commanded 17,850 troops at Perekop.



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