

# How to wage a trade war?

## Lessons from the Second Hundred Years War\*

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### Abstract

How was Mercantilist warfare effective in its own terms, by crippling trade of defeated powers? Our paper explores the Anglo-French experience during the eighteenth century and contributes to understanding how and when this was the case. Using new French data by partner, we explore the general mechanisms relating trade and conflicts. We look into several possible candidates to explain the effectiveness of mercantilist warfare; naval supremacy, colonies loss and neutral policies. Of all the aforementioned factors, we find that the only truly efficient way to curtail the enemy commercial exchanges, was to cripple neutral trade. This strategy was the only one allowing to both decrease the enemy's trade and causing long-lasting losses.

## 1 Introduction

Savez-vous Messieurs ce qu'est une bataille navale ? On se rencontre, on se salue, on se canonne et la mer n'en reste pas moins salée.

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Maurepas, Navy Minister of Louis xv,  
1718-1748

How was mercantilist warfare effective in its own terms, by crippling trade of defeated powers? Our paper explores the Anglo-French experience during the eighteenth century and contributes to disentangle the effects of all the strategies implemented to curtail enemy's trade. ? famously noticed

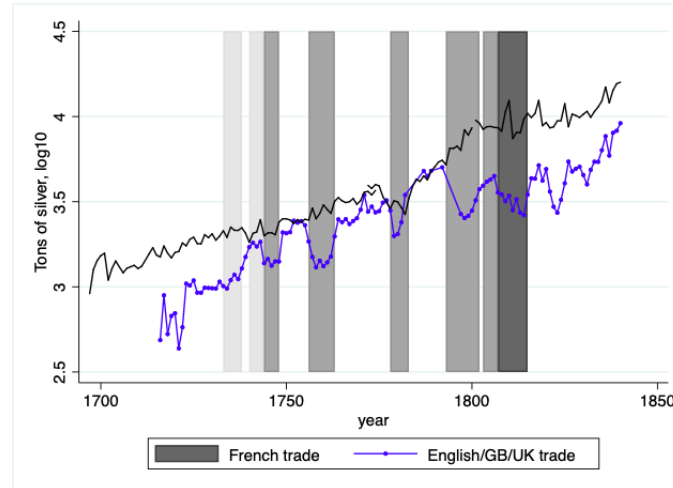
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Figure 1: French, British trade and Anglo-French wars



Source: French trade up to 1821: ?. French trade 1822-1840: ? / ?,  
 England/British trade up to 1800: ?. UK trade from 1801 to 1840: ? / ?,  
 Livre tournois silver value: ? and ?; Pound sterling silver value: ? and ?

that European nations *were nations of eternal war*. Indeed, from 1700 to 1825, two years out of three experienced conflict between major European powers (?). Rivalry between Great-Britain and France was central, so much as the period between 1688 to 1815 was called the « 2nd Hundred Years War ». War has many causes. Yet, especially after the death of Louis XIV, it cannot be denied that mercantile rivalry was an important motivation of French wars (???). Each nation was jealous of the other's commercial success. The British believed war was a good way to curtail French trade. The French partly agreed but were more wary of wars because they did not have much naval success. Here is the long list of wars between France and Britain after the death of Louis XIV: War of the Polish Succession (1733-1738) (little naval hostilities), War of the Austrian Succession (1740,-1748, where naval hostilities started in 1744), Seven Years' War (1756-1763), War of American independence (1775-1783, where French involvement started in 1778), French Revolutionary Wars (1792-1802) and Napoleonic Wars (1803-1815). Yet, not all of these conflicts achieved their goal effectively. Looking at figure 1, it is clear that French trade, despite a visible decrease in wartime, was recovering quite fast, at least until the end of the eighteenth century. The only big exception was the period following the Continental Blockade, when the increase in trade started in the beginning of the century was brought to an end, while British trade maintained its steady growth. Less visibly so, but as a result of some more in-depth analysis, Seven Years War also shows a similar pattern; it caused a bigger and longer-lasting effect than other similar wars.

What were the common elements between these two wars, that made them so much more disruptive for trade? In what did they differ from the conflicts throughout the rest of the century? With this paper, we aim to uncover the strategies and the characteristics that made mercantilist war

effective in its purpose. This is important to understand the effect of wars in general, the geopolitical history of the eighteenth and nineteenth century and the globalization/deglobalization cycle from the 1490s to the 1840s.

## 2 Literature

There exists a vast literature focusing on the relationship between trade and war. A first strand of this literature concentrates on the impact of trade on the occurrence of wars. Within this strand, two major perspectives have emerged: a liberal and a realist one. The first supports a vision of interdependence between trade and war, pointing out that trade promotes peace since it is a better method of expansion than wars (?, ?, ?). The second opposes this view by claiming that there is no impact of trade on wars, and if any, then it will be a positive impact, as countries will be pushed to move war to maintain trade supremacy (?, ?, ?)<sup>1</sup>. This is also dealt with, more recently, through a more quantitative approach by ?, who construct a theoretical model describing the likelihood of war and test it empirically. They find that likelihood of war is much smaller for countries involved in bilateral trade than for those involved in multilateral. Despite the fact that we are investigate the impact of war on trade, this literature is of interest because of the endogeneity issue. All the aforementioned paper imply that trade may have an impact on war and therefore we may not be able to disentangle the effects of one on the other. We argue that, in our case, this is not an issue; wars were either the consequence of exogenous events (the death of Charles VI for the war of Austrian Succession for instance) or else were the political expression of the long-lasting conflict between France and Britain. Therefore, in our specific case, we assume that we are observing the effect of war on trade and not the reverse.

The second strand of the literature, on the other hand, focuses on the impact of conflicts on trade. The works following this perspective are more homogeneous, and most authors agree to the disruptive effects on trade caused by wars. ? analyse the impact of war on trade with adversary countries using seven dyads between 1870-1992, and they find that, although different across dyads, the general impact of conflict on trade is not particularly strong and mostly only temporary. ? analyse more specifically the effect of all kind of conflicts, distinguishing between internal and external, and find that peace has a large and positive impact on trade. ? look at the effect of wars on global trade, and find that when major world power are at war significant pre and post war effects are observed, whereas impact is much smaller for conflicts between minor powers. Finally ? try to quantify the economic impact of the two world wars and claim that conflicts had negative effects on both

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<sup>1</sup>? provides an extensive review of these two competing strands.

belligerent and neutral countries with lags up to ten years. Altogether, the papers mentioned above do not always find coherent results, and such results were obtained from data from the last century only. The only exception is ? who uses British trade data from eighteenth century, but concentrates mainly on the impact of naval conflicts with maritime powers on trade. The majority of scholars (apart from ?) also finds long lasting effects of war; they claim commerce took several years before restoring its prewar level.

The effect of mercantilists wars on French trade does not fit this pattern. ?, who concentrates on the case study of the Seven Years War, observes French trade series and he notices that there were no war lags but on the contrary pre and post war loss compensation effects. This widely recognized fact about the effect of eighteenth century wars on French trade has led historians to research extensively the strategies of French merchants to cope with war. Neutral carriers were somewhat protected from British predation on the sea. When necessary, French merchants could even hide their cargo ownership behind a neutral partner. Or they could move to neutral countries and operate from there (?). Historians have even reflected that war periods might have been necessary to the functioning of the *Éxclusif Colonial*, i.e. the theoretical monopoly of French merchants on French colonial trade (???). The argument rests on the large peace time trade imbalances between France and its Northern European clients for colonial goods that could have been balanced by large service income of Northern European merchants during war time as they, as neutrals, provided shipping and various trade services to the French empire. The quality of the available balance of payment data is not good enough to test that hypothesis. Along these lines, ? finds that regions of the French Empire which were protected from trade with the British during the Continental Blockade increased capacity in mechanized cotton spinning to a larger extent than regions which remained more exposed to trade. The aim of this paper is to extend ?'s work by analysing the available French data in the eighteenth century. So far the literature has mainly analysed the impact on trade of twentieth century wars and generalized the results. We believe that the effect of wars in twentieth century is different from that of other wars throughout history, and related data offer only a partial point of view. Thus, we are convinced that analysing data older than twentieth century is crucial to understand the general mechanisms relating trade and conflicts. We construct a loss measure for trade throughout the century and we find that indeed the main losses took place during Seven Years War and Revolutionary & Napoleonic Wars. We explore several possible causes and we find that the common factor in case of major disruption was the policy adopted towards neutral countries. This leads us to think that wars were not a big source of disruption for trade, as long as neutral countries were allowed to trade relatively freely and take over the trade from belligerent countries. It was only during the Seven

Years Wars and the Napoleonic & Revolutionary Wars, when commerce with neutral countries was also restricted, that French trade experienced a massive decline (?). This decline was long-term and put an end to the competition for trade supremacy in Europe, which was ultimately won by the United Kingdom, by the end of the century. This avails the hypothesis of the role of neutral countries in modern trade and its importance for its success.

? shows that fighting a naval power with a large navy is bad for trade. The close examination of the mercantilist rivalry between Britain and France clarifies the channels through which a naval power can do long-term damage one's trade.

## 3 Dataset

### 3.1 Sources of the data

We use data from the TOFLIT18 project (see <http://toflit18.medialab.sciences-po.fr/#/home>). They come from the archives of the French *Bureau de la Balance du Commerce* and, subsequently, the *Bureau des archives du commerce*. This institution was created in 1713, after the Treaty of Utrecht, which followed the Spanish Succession War. While discussing a trade treaty with the British, the French negotiators were positively impressed by the detailed knowledge shown on actual trade flows by their counterparts, and they convinced the government of the necessity of creating an institution that would keep track of exports and imports from and to France (?)<sup>2</sup>. Starting with the year 1716, local *bureaux des fermes* sent their trade records to the *Bureau* in Paris. The *Bureau* would then compute aggregate yearly figures for each *direction* (port) and then send them back to the local Chamber of Commerce, so that they could add the values up to 1780. A mix of local and central source survive from this process. Unfortunately these "local sources" mostly did not survive; what we have left are parts of the centralised records. From 1781 to 1791, the work methods of the Bureau changed and a number of years of trade have left little record (1783-1786, 1790-1791). In 1792, through a decree of the National Assembly, the *Bureau de la Balance du commerce* was abolished and replaced by the *Bureau des archives du commerce*. We have some data on 1792 trade, but trade collection started again in earnest in 1797, so that we are missing information on 1793-1796. The data that have survived is contained in different kinds of documents. The two most exhaustive ones contain trade by product and per partner. They were the *Objet Général*, between 1754 and 1780, 1782 and 1788. Some years are missing, especially in the the period between 1761 and 1767, and the *Résumé*, between 1787 and 1789 and between 1797 and 1821. The *Objet Général* includes

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<sup>2</sup>?, in their paper, provide the complete history of the *Bureau*.

the value of the flows and, from 1771, it includes also quantities and / or unit prices. The *Résumé* does not include quantities, only values. The classification of goods it uses is less precise than the one from the *Objet Général*. Local trade data are available from 1716 to 1780 and in 1789. These sometimes allow partial reconstruction of total French trade (see 7). Very importantly for the first part of the analysis, a *Tableau Général* exists in the French archives that provides French bilateral trade (though it is not broken down by product) (?).

Our sources provide the value of trade in the current French currency. This is the *livre tournois* up to 1795 and the *franc* afterward. The value of the *livre* was fluctuating in the early eighteenth century. In 1726, its value was fixed at a value of 4.505 grams of fine silver (?). Because of the monetary crisis during the revolution, we use data extracted from published appreciation tables to fix the value of the *livre* at 2.9 grams of silver in 1792 (?) . The French franc contained 4.5 grams of fine silver. We convert most trade flows in fine silver ; obviously, this does not solve the inflation issue, but inflation in terms of silver was relatively limited during that period.

### 3.2 Trade partners

Trade partners are not consistently designed in the original data. For example, In the *Tableau Général* (from 1716 to 1782), the number of partners varies between 14 and 23 and between 16 and 26 in the *Résumé* (from 1787 to 1821). Often, partners are not single countries but rather groups of countries. Many destinations get broken down into smaller destinations in later periods or even disappear to be replaced by other smaller entities. To bypass this problem we have created a classification of countries, which is consistent for the whole period (such that we have nearly one observation for each group for each year). This classification identifies only twelve groups: *Allemagne*, *Angleterre*, *Espagne*, *Flandre et autres États de l'Empereur*, *Hollande*, *Portugal*, *Suisse*, *Levant*, *Italie*, *États-Unis*, *Outre-mers* and *Nord*. Many are self-explanatory, though it should be underlined that trade with *Angleterre*, *Portugal* and *Espagne* includes trade with all their controlled territories.

*Outre-mers* regroups all intercontinental French trade (mainly with French colonies) except for North Africa and the Ottoman Empire that are included (along with Greece) in *Levant*.

*Nord* designates trade north of the Low Countries. This region comprises Sweden, Denmark, Hanseatic ports (mainly Hamburg, Bremen, Lubeck and Danzig), Prussia and Russia<sup>3</sup> (?).

*Italie* was used as a geographical expression. The main French trade partners there were the Kingdom of Piedmont and Sardinia and Genoa. Still, minor flows were also directed to Milan, Naples, Venice, Tuscany, Papal States...

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<sup>3</sup>Trade with Denmark is identified separately from 1733, trade with Sweden from 1734 and trade with Russia from 1744. We always account for them together under *Nord*

*Flandre et autres États de l'Empereur* (*Empereur* for short) is mainly modern Belgium before the Revolutionary and Napoleonic Wars and mainly Austria after it. At that point, modern Belgium is annexed by *Hollande*.

*Allemagne* encompasses mainly Western Germany, including Alsace, Lorraine during the *Ancien Régime*.

We have not attempted to take into account the extensive territorial re-arrangements during the Revolutionary and Napoleonic Wars. The extension of France in the Low Countries, Germany and Italy changed the actual extent of the *Allemagne* and *Italie* partner.

## 4 Historical summary

As mentioned above, the eighteenth century was a period of "eternal war". In fact, between 1716 and 1820, two out of three years experienced a conflict. In this section we provide a brief overview of the main wars that took place in Europe in the period of analysis and we explain how we classified the belligerent status (compared to France) of the country groupings we use. We always consider *Outre-mers* as ally and *Levant* as neutral

In 1733, the king of Poland August II, died heirless and his succession soon became a conflict at European level. France, Prussia and Spain were trying to limit the desire of expansion of the Habsburg monarchy in Poland. Britain stayed neutral and the war concluded in 1738, with the recognition of August III as king of Poland, as the Habsburg had wished and France gaining . In the country classification we used, the ally countries were *Espagne* and the foe was *Empereur* and *Allemagne* (as Lorraine and West Germany were at that point mostly controlled by the Habsburg). It was a land conflict, as opposed to the naval conflicts that followed.

No longer than two years later, a very similar event occurred as a consequence of the death of Charles IV. The Habsburg emperor had not died heirless, however his only heir was a woman; Maria Theresa of Austria. France, Prussia and the Electorate of Bavaria used the pretext that she was ineligible to succeed to her father, to challenge, once again, the Habsburg power. Maria Theresa was supported by the Kingdom of Great Britain and the Dutch Republic as well as the Kingdom of Sardinia and the Electorate of Saxony. This conflict, which was born as a succession issue, soon extended to the New World and became a competition between the French and the British for the control of American colonies. It ended in 1748 with the Treaty of Aix la Chapelle, where France gave back most the territories it had conquered during the war. Ally country in this case was *Espagne* and foes were *Angleterre* and *Empereur*.

Roughly until the end of the Austrian Succession war, a sort of geopolitical and economic equilib-

rium between France and British colonies on the North American mainland had prevailed. That was broken as a consequence of an uneven population growth (?). This set the stage to the following war; the Seven Years War, or French and Indian War, which, as the name suggests, was a world-wide conflict. As opposed to the previous wars, this was a decisive triumph of Britain over France, which was forced to give up Canada, Cape Breton Island and Grenada, recognized the Mississippi River as the Eastern boundary of its possessions in North American, then ceded those possession to Spain. France also lost enough influence in its colonies to lead to the end of French colonial ambition in India and, subsequently, to the dissolution of the first Compagnies des Indes (?). French allies in this war were *Allemagne*<sup>4</sup>, *Empereur*, and *Espagne* for 1762. Foes were *Angleterre*, and *Portugal*. At the end of the Seven Years War, with the victory of Britain and the subsequent departure of the French, the American colonies, no longer feeling the threat of the French presence on the continent, soon started demanding independence from Great Britain<sup>5</sup>. In 1775 they rebelled against British control over their trade and in 1776 they declared independence. France, still feeling the humiliation subsequent to the Seven Year War, in 1778 entered the fray on the colonies' side, soon followed by Spain. Spanish and French <sup>6</sup> fleet together outnumbered the British Navy and were able to force Britain to surrender and end the war with the Treaty of Versaille in 1783. In this setting, ally were there *Espagne*, *Etats-Unis*, and *Hollande* from 1780; foe was only *Angleterre*. At the end of the war, despite the victory obtained, French finances were suffering to the extent that Calonne, the finance minister at the time, was forced to the summoning of the Estates-Generales in 1789, which then led to the start of the French Revolution. This event was followed by a larger conflagration with respect to previous mercanilist wars, into which an ideological dimension had been injected (?). In 1792 France declared war on Austria and Prussia, and the following year to Great Britain. The subsequent conflict lasted for nearly thirty years, with only two brief interruption between 1802 and 1803 (Peace of Amiens) and between 1814 and 1815. Almost immediately, France banned the import of all British goods; Britain responded by blockading French coasts and impeding French ships to exit the port. From the very beginning, this created a big problem for neutral countries, which wished to continue trade with both belligerent actors. As a consequence, a second League of Armed Neutrality was created, in which Russia, Prussia, Denmark and Sweden took part. This alliance was not long-lasting, as Britain responded with a ban on trade with the

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<sup>4</sup>As mentioned in section 3, *Allemagne* was mainly Alsace, Lorraine and Western Germany, which were allied to France. Our assumption is that "Prussia" is sea trade through the Baltic, i.e. a minor portion of *North*, which, however we code as neutral, since it was dominated by Hamburg - despite the fact that Russia and Sweden were allied to France for most of the war.

<sup>5</sup>The French chief minister, the duc the Choiseul, made a prediction to the effect that with no French presence on the continent to threaten them any longer, the American colonies would soon demand independence from Great Britain (?). This prediction, as it turned out, was prescient.

<sup>6</sup>France had been investing in its Navy following the preceding defeat (?).



league, and bombed Copenhagen, thus ending this agreement. This conflict ultimately ended with Napoleon's disastrous invasion of Russia in 1812, which was followed by the invasion of France in 1814 and a subsequent peace treaty signed in Ghent. The two main players of this conflict were, of course, Britain and France. However, because of the victories and defeats of one and the other, sides of other countries changed continuously and it was harder to code in our country classification. Table 1 reports our choices of the position of all countries in all wars throughout the century. *Allemagne* was mainly aligned with Austria till 1800: so it was a foe between 1792 and 1800, neutral between Campo Formio became an ally in 1805 (till 1813), and then became again a foe after the battle of Leipzig to France. *Angleterre* was an enemy all throughout. *Espagne* fought France for the period 1793 and 1794, she became then an ally until 1807 (with the exception of 1795, in which she was neutral), and then again an enemy from 1808 onwards. *Empereur* is Austria, whose position was easy to adjudicate. It was a foe until Campo Formio (June 1801), neutral till the Third Coalition (1805), then a foe in 1805, to become neutral again in 1806 until 1808. Lastly, after one more year of neutrality in 1809, she became an ally starting from 1810, and declared war again in 1813. *Etats Unis* was always neutral throughout the war, except for the un-declared war between 1798 and 1800. *Hollande* fought France till 1794 and was then aligned to it till late 1813, when William-Frederik of Orange-Nassau took power. *Italy* was briefly a foe until 1796, then neutral until 1813, and then again a foe starting 1814. *Levant* stayed out of the war, except when the French invaded Egypt from 1798 to 1801. Concerning *Nord*, Sweden and Russia were alternatively neutral, foes or allies. Denmark was an ally. Yet, as the biggest share of trade was represented by Hamburg, whenever the component of *Nord* were not on the same side in a war, we code them all in the position of Hamburg. *Nord* was mainly neutral, except when it was occupied and then annexed by France from 1808 to 1813.<sup>7</sup> *Outre-mers* mainly includes French colonies and we treat it as an ally throughout. *Portugal* was neutral until 1798 and then became a foe in 1802. It was again neutral for a short period between 1803 to 1806 and then became a foe starting from 1807. Finally, *Suisse* was neutral until 1797 and then an ally until 1813, and then neutral again in 1814.

Figure 2 sums up the data by showing the number of French allies, foes and neutral for each war and year of interest.

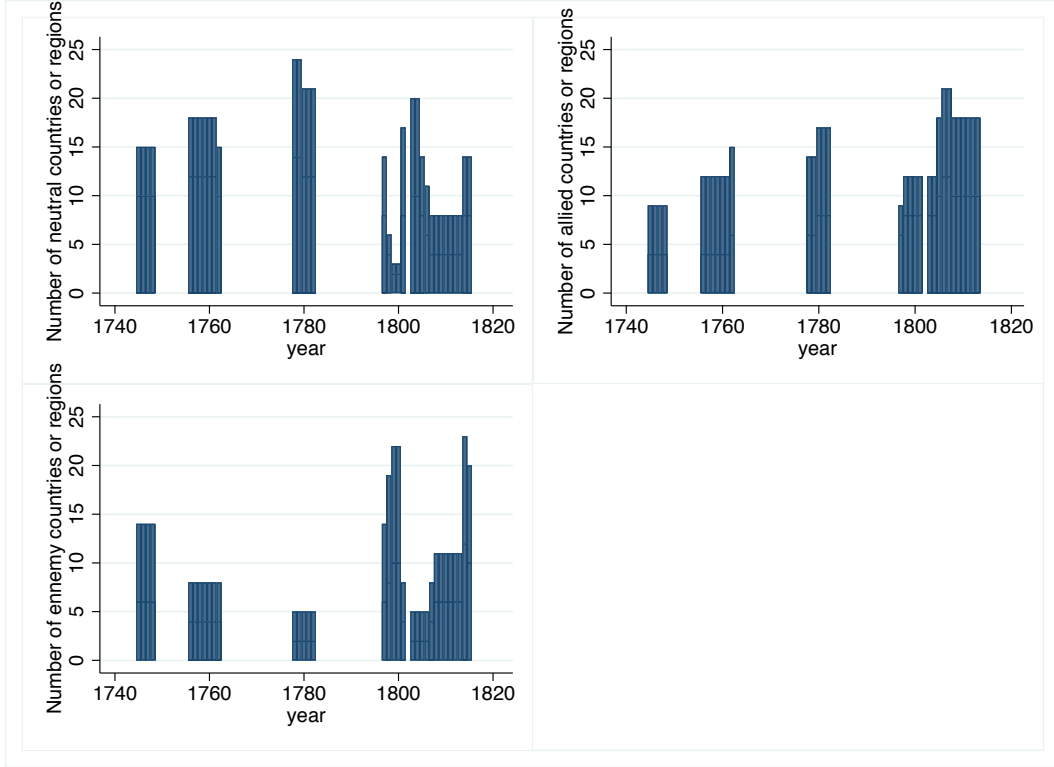
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<sup>7</sup>Obviously, we cannot proceed this way for the computation of naval supremacy, see *infra*.

Table 1: Summary of war status for trade partners, 1792-1815

Country	Foe	Neutral	Ally
Allemagne	1792-1800 1814-1815	1801-1804	1805-1813
Angleterre	1793-1815	1792	
Espagne	1793-1794 1808-1815	1792 1795	1796-1807
Empereur	1792-1800 1805 1809 1813-1815	1801-1804 1806-1808	1810-1812
États-Unis	1798-1800	1792-1797 1801-1815	
Hollande	1793-1794 1814-1815	1792	1795-1813
Italie	1792-1796 1814-1815		1797-1813
Levant	1798-1801	1792-1797 1802-1815	
Nord		1792-1807 1814-1815	1808-1813
Outre-mers			1792-1815
Portugal	1793-1797 1799-1800 1807-1815	1792 1798 1801-1806	
Suisse		1792-1797 1814-1815	1798-1813

Figure 2: Number of protagonists



## 5 Empirical Analysis

The aim of this study is to uncover the effects of the long-lasting war status that marked the eighteenth century and to identify the drivers of the massive loss in trade associated to some of these conflicts.

### 5.1 Explained variable

We start by defining a loss function of the effects of wars. We construct it as the percent loss, compared to past peace time trend.

$$Loss = \frac{Expected\ value\ based\ on\ past\ peace\ trend - Observed\ value}{Expected\ value\ based\ on\ past\ peace\ trend}$$

Figure 3 shows the annual loss function for the period of interest. Figure 4 shows the mean loss function by peace or war period. The black dotted line shows observed trade versus trade predicted based on all preceding peace period, whereas the red solid line shows the comparison with the

prediction based on the single preceding peace period only. This graph shows that the most successful wars from the point of view of Britain, trying to disrupt French trade, were the Revolutionary & Napoleonic War and the Seven Years War. The loss function is higher during these conflicts (more than 40% and 60%) than during the Austrian Succession War and the American Revolutionary War (respectively 20% and 30%). Furthermore, the loss function is positive also after the war, whereas it is negative after the Austrian Succession War and the American Revolutionary War. The disruption of French trade lasted through peacetime for these two wars. Therefore, at a first glance, these two conflicts were more harmful to trade than others. Looking at figure 4 makes this point stronger. We observe, in fact, that post-Seven Years War loss (during peace) is roughly comparable to the war-time loss during the American Revolutionary War altogether. It is undoubtedly hard to disentangle the effect of the American Revolutionary War itself and the lags from the preceding war, however, whatever the distribution of weights between these two events, it is undeniable that the consequences of the Seven Year War were quite significant. The same holds for the Revolutionary & Napoleonic War, which have been long identified in the literature as a major cause in French trade disruption at the end of the nineteenth century (?).

In an analogous way we have computed the loss function for UK trade (figures 5 and 6). What we observe here is that, first of all, losses are much less significant than for France for the overall period. In particular, the loss function is negative 1756 and 1778 and after 1781, at least while using all past period to predict the trend. This suggests that, although the British may not have been successful in curtailing French trade, they were nonetheless profiting from some conflicts for their own commerce.

Figure 3: Annual Loss Function

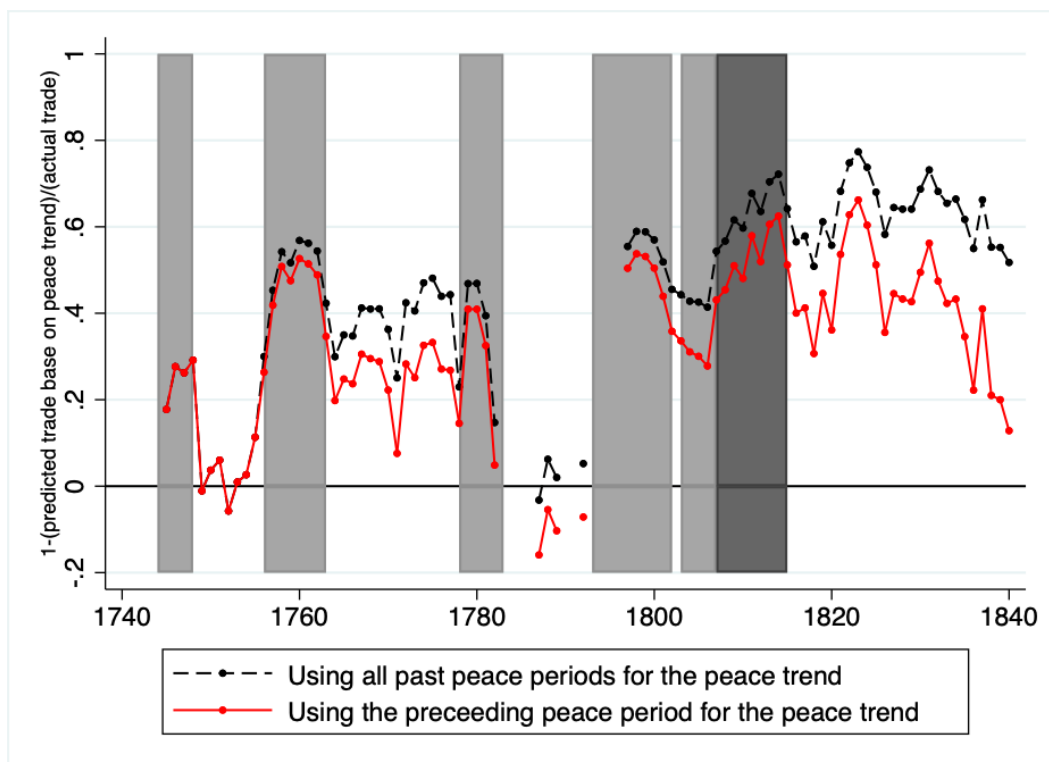


Figure 4: Mean Loss Function

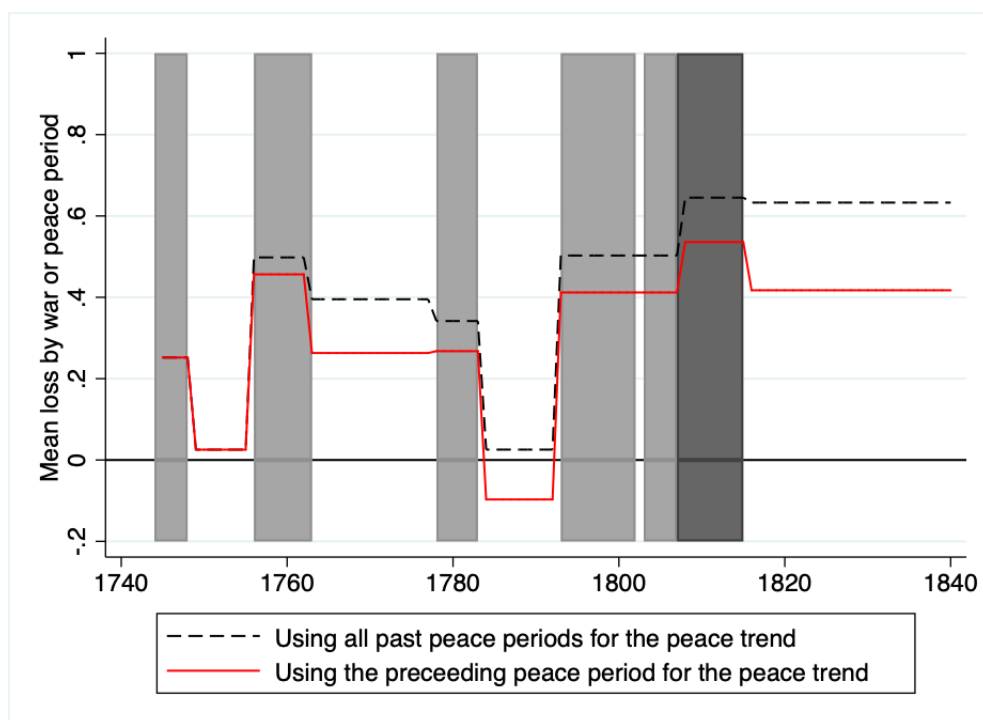


Figure 5: GB Annual Loss Function

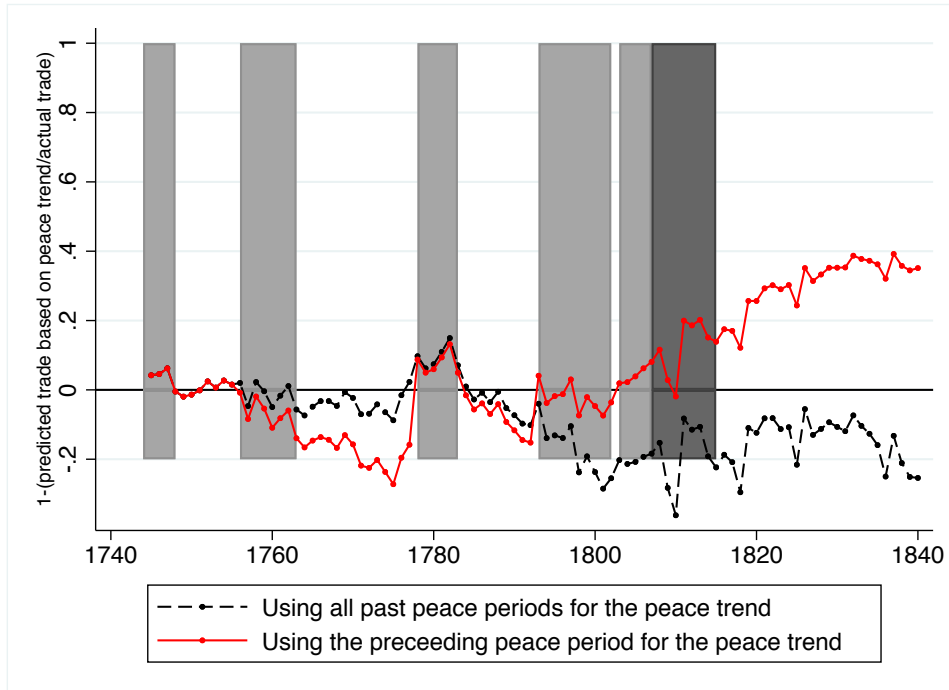
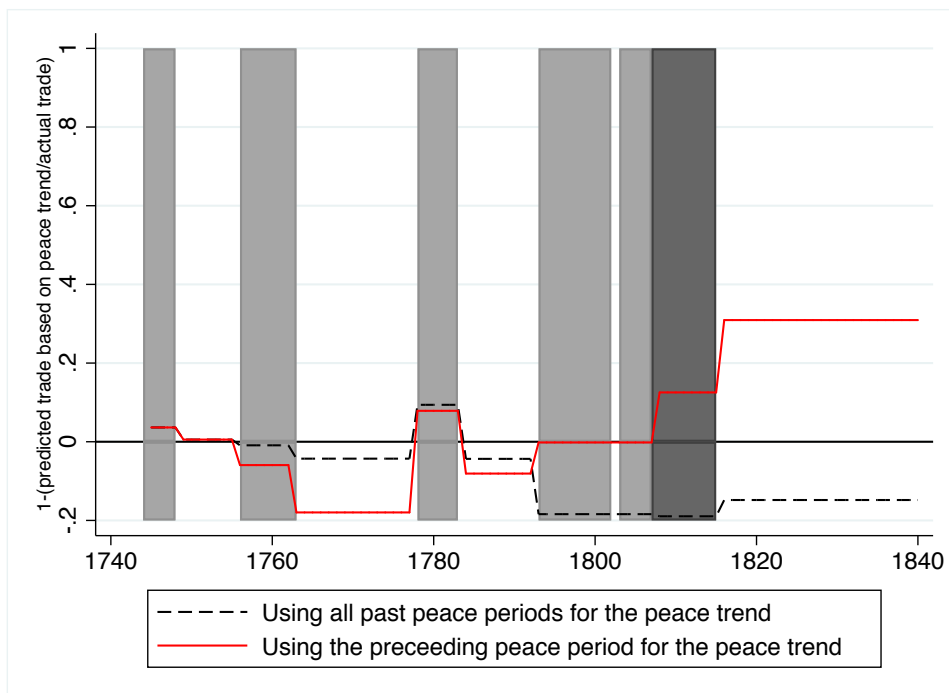


Figure 6: GB Mean Loss Function



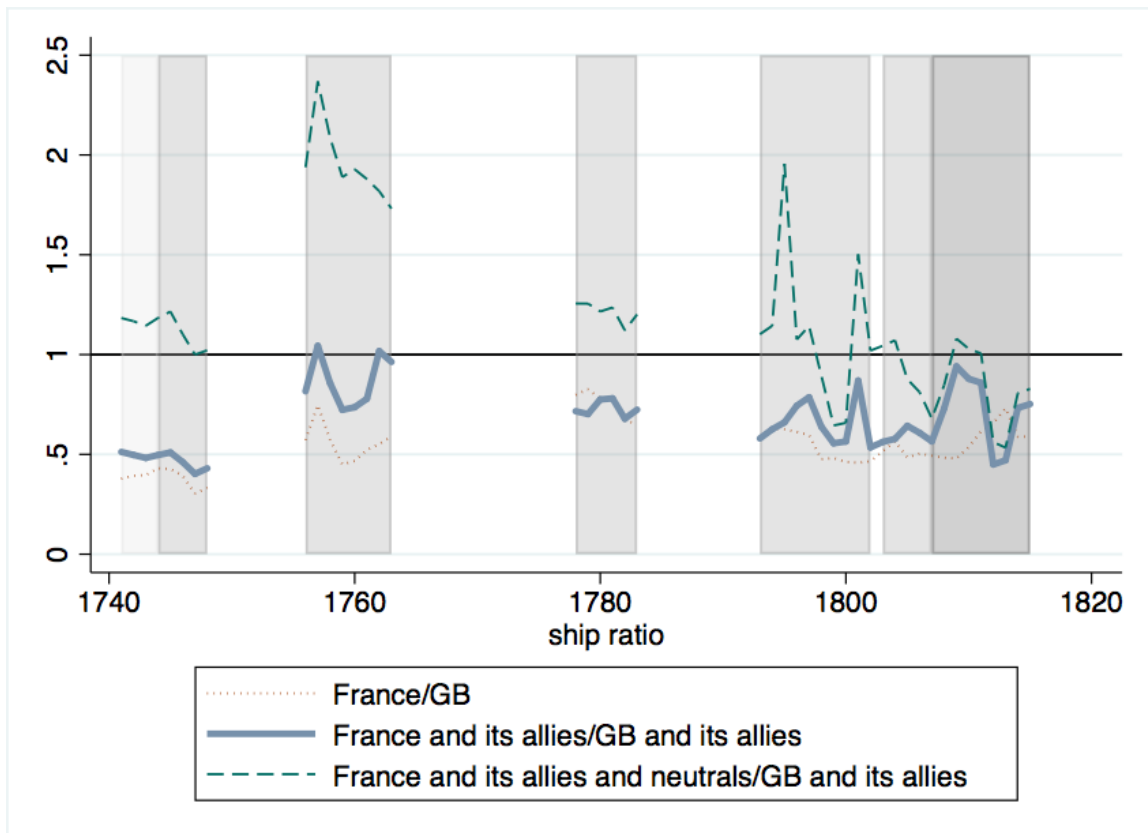
## 5.2 Explanatory variables

With basically four observations, as we observe four wars, one cannot hope to uncover robust statistical relationships. Still, we can check the coherence of usual explanations for the disruptions of French trade.

### 5.2.1 Naval supremacy

The first explanation is that naval supremacy by itself has an effect on trade. A larger naval supremacy meant that Britain could blockade French ports and capture French ships in a more efficient way. To verify this, we use the number of warships available to France, France and its allies, Great Britain, Great Britain and its allies and neutral as provided in ?, as a proxy for naval supremacy. Compared to the discussion in section 4, we also track the war status of Denmark, Russia and Sweden which were sizeable naval powers during that period. Figure 7 reports the ratio of France over Great Britain, France and its allies versus Britain and its allies and France, its allies and neutral countries versus Britain and its allies. Suprisingly, the most favorable war for France and its allies was the Seven Years War, thanks to the French support by Sweden and Russia, even though there was no common naval action. There also are some spikes during the Napoleonic Wars. The least favorable war was the Austrian Succession War. This is paradoxical, as it appears that French trade suffered most when its navy, and the navy of its allies, was at the highest. There are no simple relationship between this naval supremacy ratio and the loss function.

Figure 7: Naval Supremacy Ratio



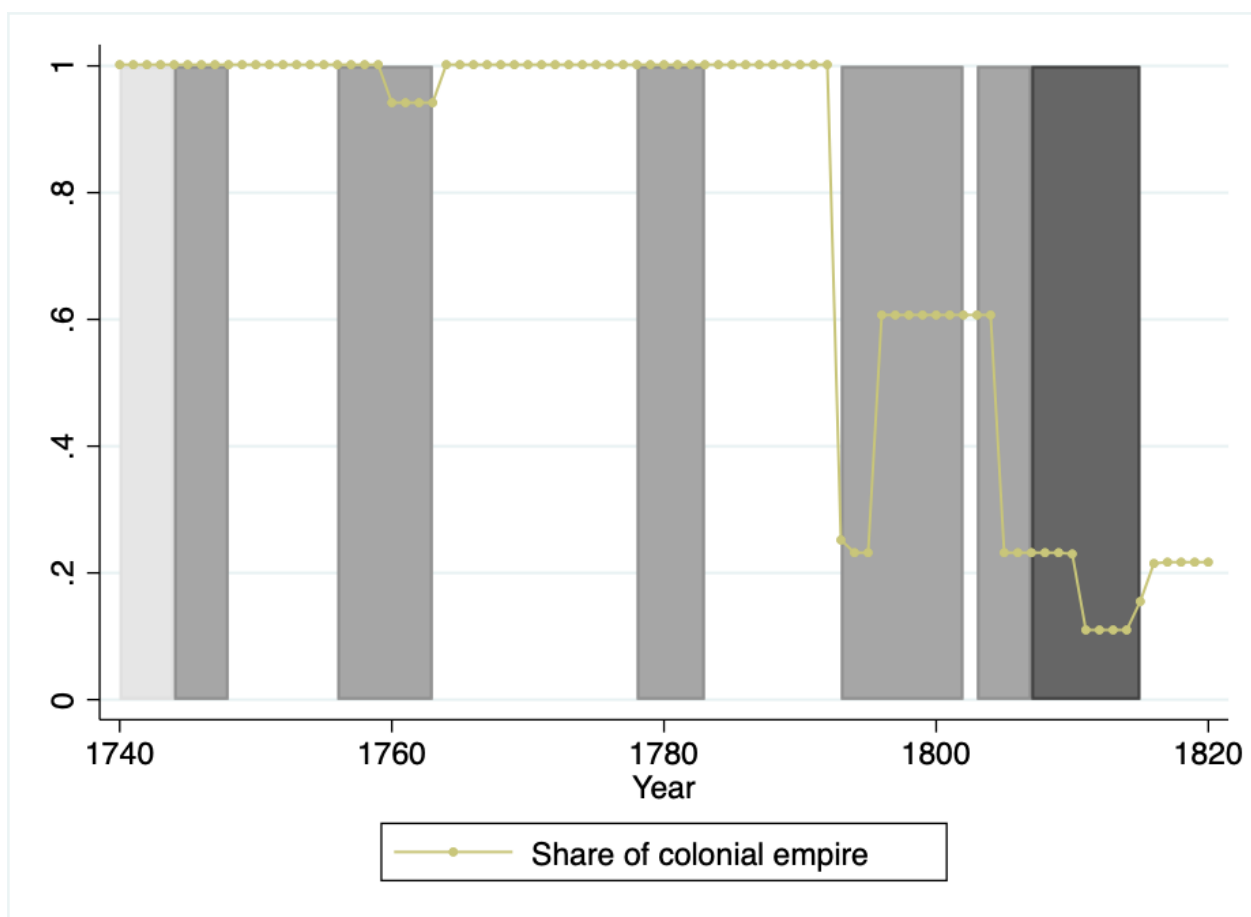
### 5.2.2 Measure of colonial power

West Indian French colonies were a major source for production of sugar and coffee, which were widely imported and then re-exported by France to other European countries. The loss of these colonies was bound to be disruptive for French trade, as it reduced imports and re-exports. We consider as colonies Guadeloupe (taken by the British in 1760, given back in late 1763 ; taken again in 1811, given back in 1816), Martinique (never lost), Saint-Domingue (revolt in 1793, partly integrated back to the French trade network in 1796, independent for good after 1804), Maurice (lost for good in 1811), Réunion and the Indian trade posts (lost in 1811, back in 1815), French Guyana (lost in 1810, back in 1817) and Tobago (lost in 1793). We construct a colonial loss measure weighting each colony by its share in French colonial imports in 1788 (TOFLIT18 data - Saint Domingue weights 75 percent, Martinique 11 percent, Guadeloupe 6 percent, India 3 percent and all the other are smaller), which is equal 1 in 1788 (considering France had its "complete" empire) and gets reduced by an amount proportional to the share of trade whenever a colony is lost.

An additional comment needs to be made on Saint Domingue, which was the major source for colonial goods for France. The revolt of the slaves in Haiti was a long and bloody episode and sugar production was lost well before independence was ultimately acquired. We have coded it as "lost" between 1793 and 1795, when the revolt started, and production was mostly destroyed or fields burnt. In 1796, order was partly restored and a portion of the plantation were being cultivated normally, and only 1805 Haiti became independent and the production was lost completely. Guadeloupe was also important for its sugar production and was lost to the British between 1759 to 1763, as it is visible from the decrease of the index in the graphs, and between 1810 and 1816. Finally, Martinique was controlled almost continuously by the British, from 1794-1815, to be traded back to France, after the Napoleonic Wars. Figure 8 shows the evolution of the colony loss measure.



Figure 8: Colonial empire loss



Again, the link with the trade loss measure is not obvious. It works well for the Revolutionary & Napoleonic Wars: a large part of the empire was gradually lost in that period. But the colonial loss of the Seven Years War were minimal (Canada was not an important trade partner for France) and do not seem to justify the larger trade loss during that period. It is interesting to remark that in 1814, the Restoration was keen to re-create the colonial system from the late eighteenth century. This included the re-establishment of the *Exclusif* and reconquest of St-Domingue or the establishment of some substitute colony (?). In a secret clause of the 1814 peace treaty, Great-Britain pledged not to hinder the re-institution of French sovereignty on St-Domingue (?). That seems hardly compatible with the idea that the loss of colonies was a necessary nail in the coffin of French trade.

### 5.2.3 Neutral policy

While trying to destroy foe's shipping, the way the Neutrals were treated was important as the merchants from belligerent countries used a number of devices to "hide" their cargo as neutral cargo and continue trade (see (?), ?). During war, enemy cargo could be seized. But the crux of the

matter was the definition of "enemy cargo". It obviously included merchandises transported by enemy ships, so one would use neutral ships. Neutral shippings to actually blockaded ports could be seized, but not that to other enemy ports (?, p. 112) During the War of Austrian Succession, the British did not fight neutral trade very strongly and allowed neutral countries to continue trading though they were prohibited to carry "enemy cargo" (i.e. cargo owned by the enemy). But there was no way to check anyway, as neutral ships would not yield to inspection. For example, French colonial goods would be taken from the French West Indies to the Dutch West Indies (e.g. St. Eustache). As the cargo was not coming directly from French West Indies, it was not deemed "enemy cargo". During the eighteenth century, belligerent countries - especially Great Britain - tried to close off these ways for French trade to continue thanks to neutral shipping. In 1756, during Seven Years War, the British decided to put an end to just aforementioned practice and introduced the *Doctrine of Continuous Voyage* along with the *Rule of War of 1756*, that stated that the very beginning of the journey and the very end should be taken into account to determine the nationality of the cargo. They also claimed the right to seize neutral shipping to look for contraband (and exercised it). Also, they forbid neutrals, in time of war, to enjoy a trade from which they were barred in time of peace. As the French colonies were under the regime of the *Exclusif* (?), and that all their trade had to be conducted by French ships, that basically barred neutrals from trading with the French colonies. This had a considerable impact on French trade, which was heavily relying on Dutch ships to transport colonial goods. It also created great discontent among neutral countries. They were not able to enforce their rights efficiently until 1780, when, finally, Russia, Denmark and Sweden created the *League of Armed Neutrality*. The latter allowed them to defend their interest at least for the time of the War of American Revolution. The idea was that neutral ships traveling under the protection of neutral warships were not to be inspected as the absence of "enemy cargo" was guaranteed by the neutral sovereign (?, p. 121-125). This experiment however did not have a long lasting success and was finally put to an end in 1783 with the treaty of Paris, when Catherine of Russia renamed it the *Armed Nullity*<sup>8</sup> (?). Still, Ancien Régime France was active at protecting the rights of neutral shipping, as it saw it as mean to continue its trade during war years (?, p. 129). In 1784, France gave St. Barthelemy to Sweden partly to encourage neutral trade during wars (?, p. 326).

The situation was very different during the Revolutionnary & Napoleonic wars as France become more and more hostile to neutral shipping in trying to isolate Great Britain. With both countries trying to curtail neutral shipping, the system through which it was an objective ally of French

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<sup>8</sup>The number of vessels Russia, Denmark and Sweden owned combined were still less than the entire British navy, therefore this league was bound to be weak from the very beginning.

trade crumbled down. In 1793, with the outburst of the French Revolution and, subsequently, the Revolutionary Wars, most British goods were prohibited in France. As a response, the British adopted a policy for blockading the coast of France and, subsequently, both countries took action against neutral shipping. A year later, Denmark and Sweden attempted again to enforce their rights by creating a *Second League of Armed Neutrality*, which was joined by Russia and Prussia in 1800. No later than 1801, though, the British blockaded them (with the exception of Prussia) and bombed Copenhagen to end the League for good. In 1806, things worsen even further for neutral countries, when Napoleon enacted the Berlin decree, which provided the basic structure of the Continental System. The provisions of the Berlin Decree included: (1) prohibition of all trade with the British; (2) all British subjects in French-occupied areas were prisoners of war and their property was "fair prize"; (3) all trade in British goods was prohibited and all goods from England and her colonies were fair prize (and one-half their value was to be used to indemnify French merchants for losses to the British); and (4) no ships coming from the ports of Britain or its colonies would be permitted to use any port on the Continent (?). Britain responded to this policy with a related Order in Council, which required that neutral vessels call at a British port before proceeding to the continent, hitting at neutrals such as the United States, as well as France (?). The United States, were, at the time, the biggest neutral country whose trade was suffering because of the Blockade and, as a consequence, they attempted to fight back. They first enacted, in 1807, an Embargo Act directed against trade with both France and Britain, which was followed by the Non-Intercourse Act of 1809, and finally, after failure of both provisions, by a war against Britain. The United States had no better luck than France in the war, which was ultimately won by British, even if with considerable decline in trade for both sides. The situation started to unravel only around 1810, when Russia pulled out of the Continental Blockade, pushing Napoleon to attempt an invasion, which ultimately led to his final defeat, but put an end to the Blockade System and to the threat for neutral trade. Basing on these facts, we have created a categorical variable that can take two values; 0 when there was no policy against neutral shipping in wartime and 1 when neutral cargo became "fair game". As a consequence, for this variable, we would expect a positive effect; the higher the value, the stricter the policy and the bigger the loss. The table 2 reports the value of this variable overtime. Table 3 reports a summary of all expected effects of the independent variables.

Table 2: Measure of neutral policy

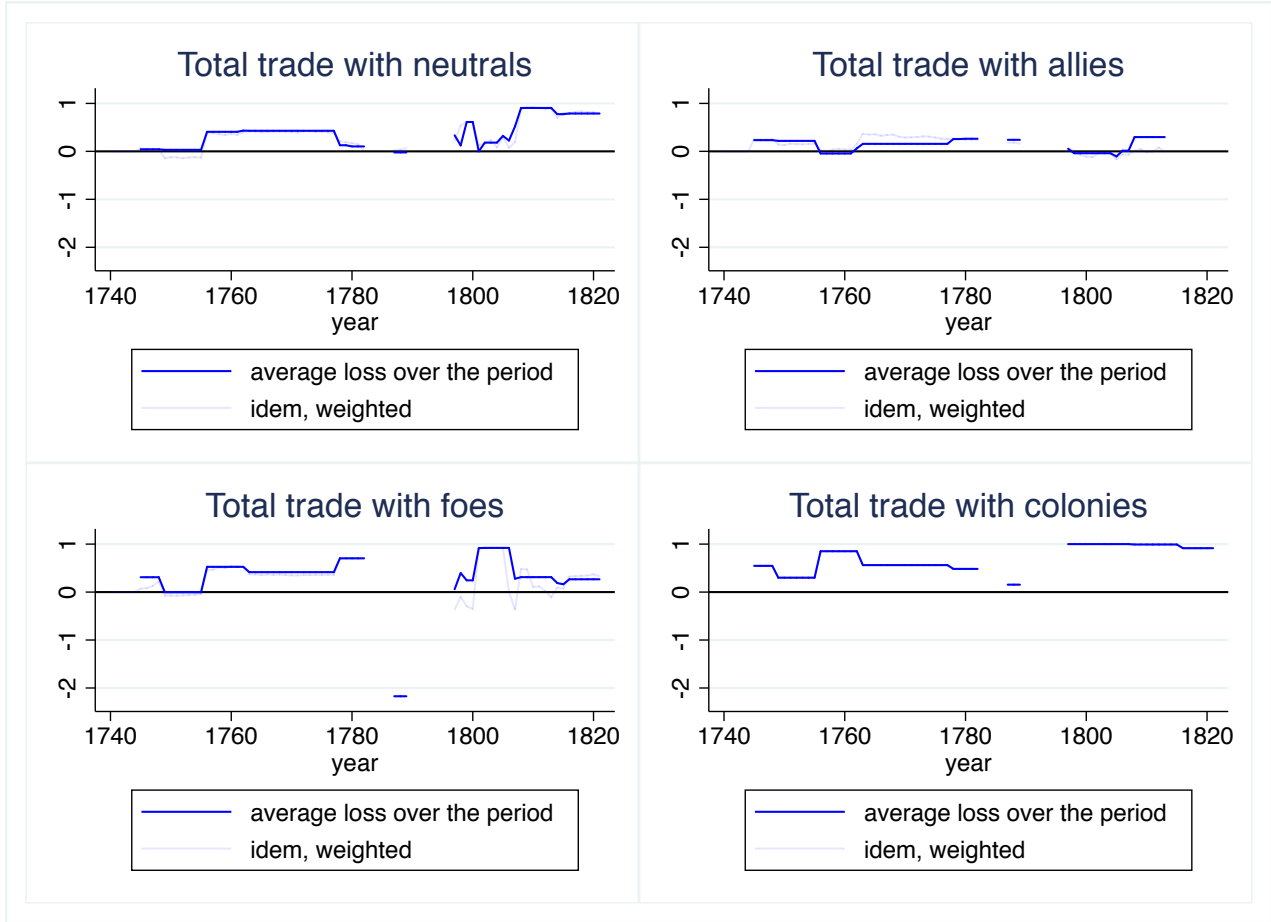
Period	Neutral policy variable
1741-1755	0
1756-1779	1
1780-1789	0
1797-1820	1

Table 3: Summary of expected effects

Explanatory Variable	Expected Effect
Loss of colonies	-
Naval Supremacy	-
Treatment of neutral countries	+

This variable, such as it is, is well correlated with the trade loss function. This was moderate during the Seven Years War and after it and large during the Revolutionary and Napoleonic Wars. This is hardly a statistically convincing argument, but it works better than the other two stories. There are two additional arguments to present. Figure 2 shows that there is a polarization of French trade partners during the Revolutionary & Napoleonic Wars. War engulfed the whole of Europe and the only remaining neutrals trading region during the Napoleonic period was the *Levant*. It could hardly play a role by in sustaining French trade. Figure 9 is constructed by computing the mean country-specific trade loss function by war status. The trade loss function has been computed based on all preceding peace periods. We have both a trade-weighted measure and a non-trade weighted measure. *Empereur* after 1794 had to be excluded, as the territorial change was too large (trade was mainly with current Belgium before 1794 and mainly with Austria after 1794). *Hollande* after 1814 had to be excluded as well as it included current day Belgium from 1815. The negative trade loss number for trade with foes in 1787-1789 is a tribute to the large effect of the Eden treaty. Notice that trade with neutral countries does not recover at all after the Seven Years War and hardly recovers after the Revolutionnary & Napoleonic Wars.

Figure 9: Trade loss by war status



Both Figure 2 and Figure 9 suggests that trade with neutral is important in explaining the contrasting resilience of French trade after each of its war with Great-Britain. To go further and understand the reason behind this behaviour, we need to look into the changing goods structure of trade during the wars.

## 6 Econometric analysis

Before moving on to look into composition of trade we want to quantify the effects observed so far. This is not an easy task because the number of observations is limited - we only have 12 countries for 65 years in the best case - which does not leave us enough degrees of freedom to run any properly specified regression including all the variables. We have therefore opted for running a regression for each single variable of interest. We have done so for the total loss function, for the loss function broken down for neutral allies and foes and for the loss function disaggregated by country <sup>9</sup>.

<sup>9</sup>In all those cases we have clustered the standard error by periods

Figure 10: Effects of colonial power

ln_loss	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
colonial_power	<b>-.8929086</b>	<b>.2004907</b>	<b>-4.45</b>	<b>0.002</b>	<b>-1.355241</b>	<b>-.4305761</b>
peacewar_num war	<b>-.1335278</b>	<b>.1346084</b>	<b>-0.99</b>	<b>0.350</b>	<b>-.4439352</b>	<b>.1768797</b>
peacewar_num#c.colonial_power war	<b>.3239844</b>	<b>.2752223</b>	<b>1.18</b>	<b>0.273</b>	<b>-.3106793</b>	<b>.9586482</b>
_cons	<b>1.206413</b>	<b>.0434361</b>	<b>27.77</b>	<b>0.000</b>	<b>1.106249</b>	<b>1.306577</b>

Figure 11: Effects of naval supremacy

ln_loss	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
warships_allyandneutral_vs_foe	<b>-.0774916</b>	<b>.4606443</b>	<b>-0.17</b>	<b>0.871</b>	<b>-1.139739</b>	<b>.984756</b>
peacewar_num war	<b>.3390246</b>	<b>.8368251</b>	<b>0.41</b>	<b>0.696</b>	<b>-1.590698</b>	<b>2.268747</b>
peacewar_num#c.warships_allyandneutral_vs_foe war	<b>-.0660765</b>	<b>.4924656</b>	<b>-0.13</b>	<b>0.897</b>	<b>-1.201704</b>	<b>1.069551</b>
_cons	<b>.5423277</b>	<b>.7832432</b>	<b>0.69</b>	<b>0.508</b>	<b>-1.263834</b>	<b>2.34849</b>

We start by regressing the loss function on our index of colonial power and controlling for peace and war period. Table 10 shows the results. Colonial power has indeed a negative and strongly significant effect on trade loss, which is to say the more of its colonies were under French control, the least is the loss in trade. The war per-se does not appear to be significantly causing disruptions, neither is the combined effects of war and colonial power (both insignificant).

Doing the same for naval supremacy (Table 11) we see that in this case, none of the coefficients is significant, suggesting that there is no direct link between lost trade and the number of French ships and its allies and Britain and its allies.

Finally, we repeat the same exercise for the effects of neutral policy (table 12). In this case all the coefficients are significant, with the exception of the interaction between war and neutral policy, and positive (i.e. they increase loss). It is interesting to see that the coefficient of neutral policy is higher than that for war (a simple t-test on their difference yields a p-value of 0.003). I CANNOT DO IT LIKE THIS, THEY HAVE TO BE STANDARDIZED.

We also run a regression on all the three coefficients together (Table 13), distinguishing for war and peace in two different regressions, however we are not able to cluster the standard error in this case,

Figure 12: Effects of neutral policy

ln_loss	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
1.neutral_policy	<b>.6090897</b>	<b>.144748</b>	<b>4.21</b>	<b>0.003</b>	<b>.2753002</b>	<b>.9428792</b>
peacewar_num war	<b>.327384</b>	<b>.0524469</b>	<b>6.24</b>	<b>0.000</b>	<b>.2064412</b>	<b>.4483269</b>
neutral_policy#peacewar_num 1#war	<b>-.1687139</b>	<b>.1887144</b>	<b>-0.89</b>	<b>0.397</b>	<b>-.6038901</b>	<b>.2664623</b>
_cons	<b>.0243261</b>	<b>.0030673</b>	<b>7.93</b>	<b>0.000</b>	<b>.0172529</b>	<b>.0313993</b>

because of lack of degrees of freedom. We observe here that, in time of no tough policy towards neutral countries, colonial power is very beneficial for trade (the loss is highly negative), however in war times, this coefficient loses significance and the only "driver" of the loss function is the neutral policy variable. This leads us to think that colonial power was crucial in peacetime for the flourishing of French trade, but was not enough of a shield during conflicts, if neutral trade was also targeted. Next, I go on to analysing the effects distinguishing by war status (Table 14 and 15). The idea is to try to disentangle the loss due to lost neutral trade, caused by stricter policies. In this case we gain some degrees of freedom by disaggregating the total by neutral foes and allies, but we add a dummy for war status, and one interaction with neutral policy, so the overall degrees of freedom gain is limited. The two regressions overall do not change the picture much with respect to the results seen so far. All of the explanatory variables are significant and in the expected direction both for the peace and the war period. It is interesting to notice, again, that while they are all significant for the peace period period, only neutral policy is for the war period. This reconfirms what we had already seen in the previous analysis, i.e. that in war period the major source of trade disruption was due to crippling neutral trade.

Figure 13: All effects together

	(1) Peace	(2) War
Neutral po~y	<b>0.853***</b> (8.84)	<b>0.969***</b> (9.26)
Neutral#Co~l	<b>-1.296***</b> (-5.50)	<b>-0.174</b> (-0.28)
Colonial p~r	<b>-0.0189</b> (-0.15)	<b>-0.382</b> (-0.64)
Neutral#Wa~p	<b>0.501**</b> (2.83)	<b>-0.544</b> (-0.94)
Warship	<b>0.0355</b> (0.37)	<b>0.650</b> (1.15)
N	<b>30</b>	<b>35</b>

t statistics in parentheses  
\* p<0.05, \*\* p<0.01, \*\*\* p<0.001

Figure 14: All effects together with war status - Peace

ln_loss	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
1.neutral_policy	<b>1.228803</b>	.5377363	<b>2.29</b>	<b>0.025</b>	<b>.1603327</b>	<b>2.297274</b>
war_status_num						
foe	<b>.4842767</b>	.2383428	<b>2.03</b>	<b>0.045</b>	<b>.0106946</b>	<b>.9578588</b>
neutral	<b>-.4155307</b>	.1589986	<b>-2.61</b>	<b>0.011</b>	<b>-.7314575</b>	<b>-.0996039</b>
war_status_num#neutral_policy						
foe#1	<b>.4256834</b>	.5744515	<b>0.74</b>	<b>0.461</b>	<b>-.7157394</b>	<b>1.567106</b>
neutral#1	<b>1.123384</b>	.3829888	<b>2.93</b>	<b>0.004</b>	<b>.3623934</b>	<b>1.884375</b>
neutral_policy#c.colonial_power						
1	<b>1.331323</b>	<b>1.203095</b>	<b>1.11</b>	<b>0.271</b>	<b>-1.0592</b>	<b>3.721847</b>
warships_allyandneutral_vs_foe	<b>1.959655</b>	.7940674	<b>2.47</b>	<b>0.016</b>	<b>.3818601</b>	<b>3.53745</b>
neutral_policy#c.warships_allyandneutral_vs_foe						
1	<b>-2.222715</b>	.944667	<b>-2.35</b>	<b>0.021</b>	<b>-4.099748</b>	<b>-.3456821</b>
colonial_power	<b>-1.789799</b>	.8885538	<b>-2.01</b>	<b>0.047</b>	<b>-3.555337</b>	<b>-.0242615</b>



Figure 15: All effects together with war status - War

ln_loss	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
1.neutral_policy	2.352689	.5939398	3.96	0.000	1.170711	3.534666
war_status_num						
foe	-.684917	.1764334	-3.88	0.000	-1.036031	-.3338033
neutral	-.0199266	.164576	-0.12	0.904	-.3474433	.3075901
war_status_num#neutral_policy						
foe#1	.400827	.2849177	1.41	0.163	-.1661772	.9678312
neutral#1	.3051454	.256327	1.19	0.237	-.2049617	.8152524
neutral_policy#c.colonial_power						
1	-2.094008	2.041779	-1.03	0.308	-6.157278	1.969262
warships_allyandneutral_vs_foe	-1.028693	1.412063	-0.73	0.468	-3.838787	1.781402
neutral_policy#c.warships_allyandneutral_vs_foe						
1	.2794486	1.68953	0.17	0.869	-3.082824	3.641721
colonial_power	1.57119	1.683488	0.93	0.353	-1.779058	4.921438

## 7 Changing composition of trade

Figure 16: All War and Peace period

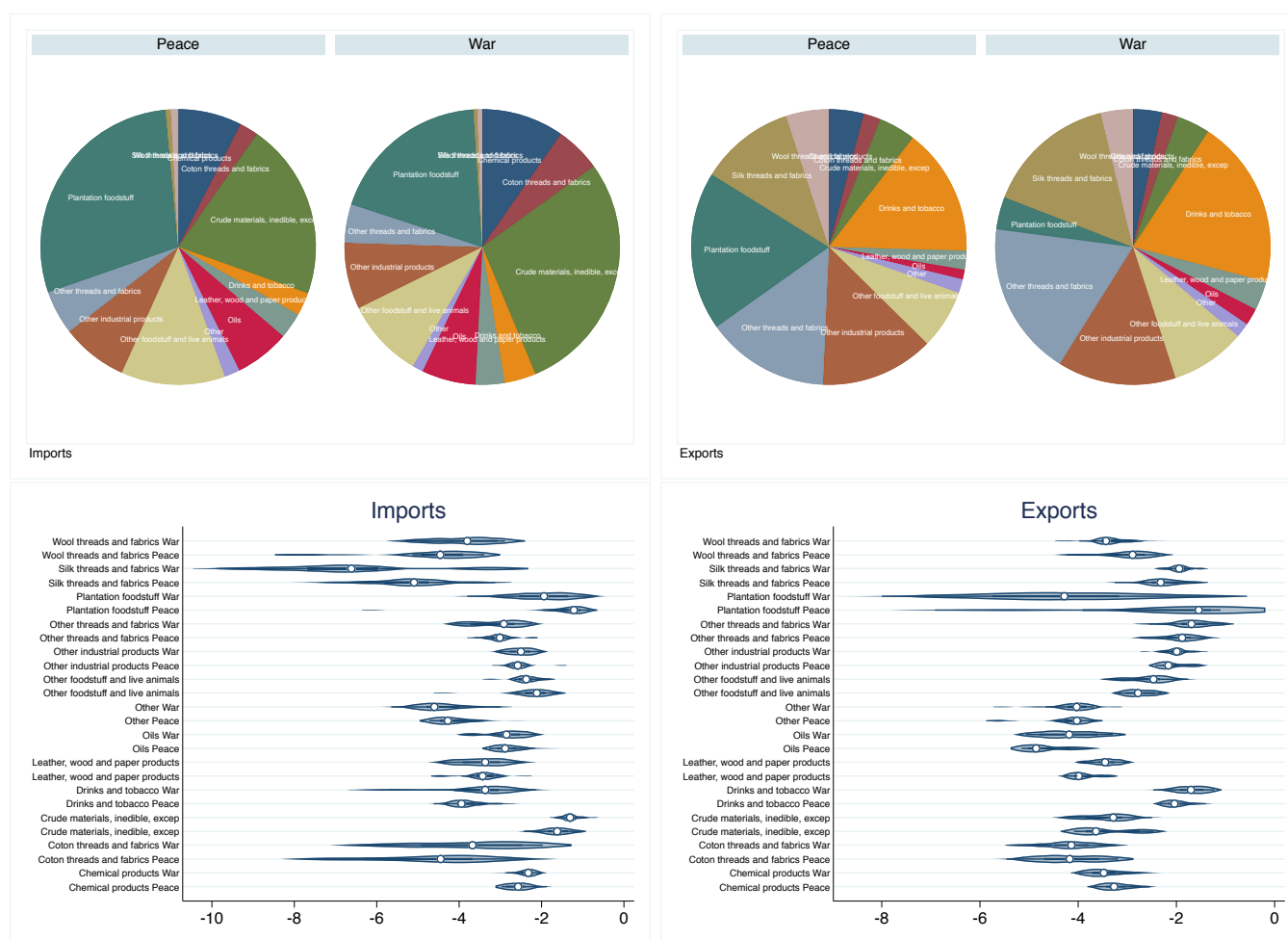


Figure 17: Peace 1749-1755 and Seven Years War

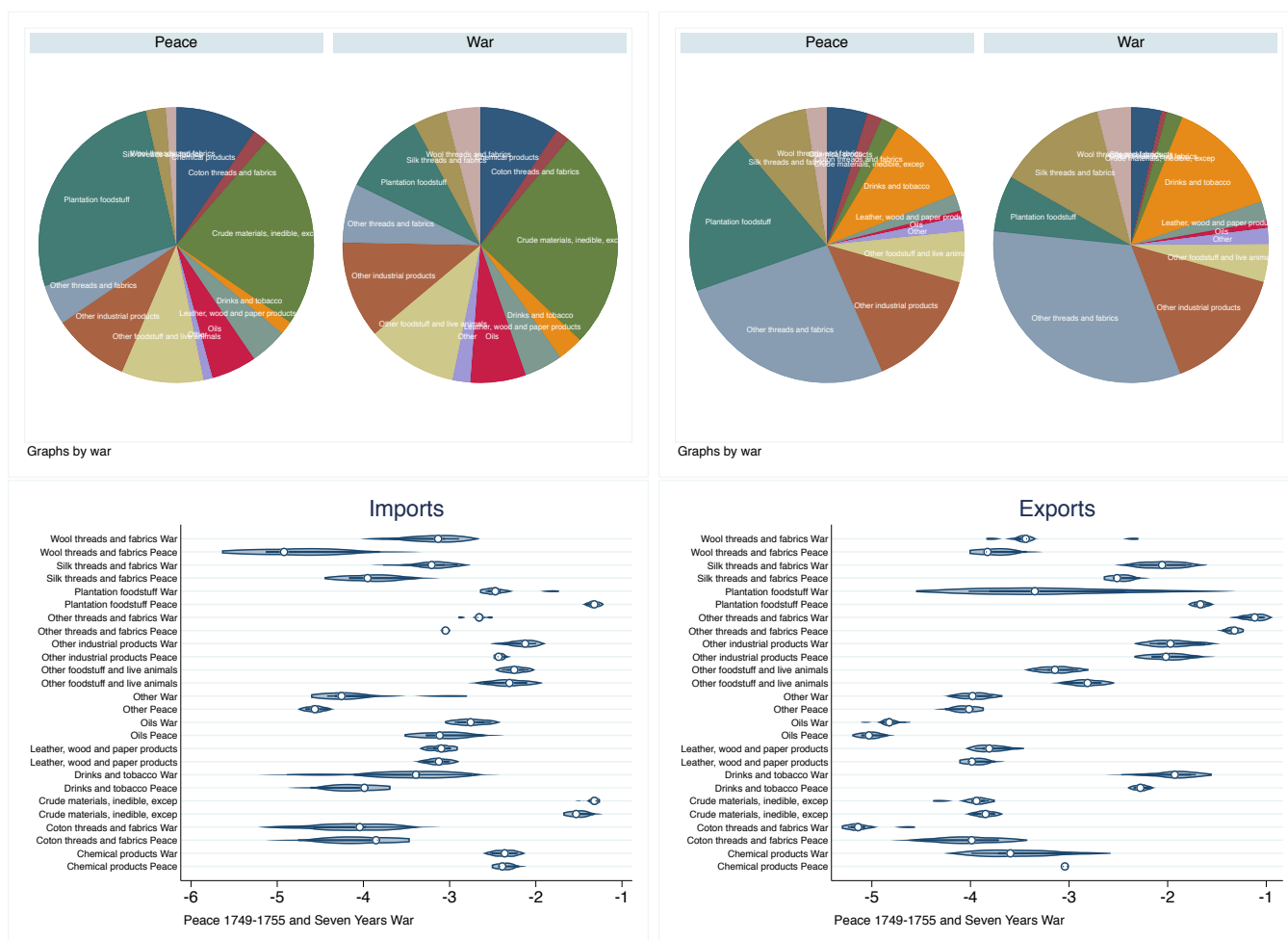


Figure 18: Seven Years War and Peace 1764-1777

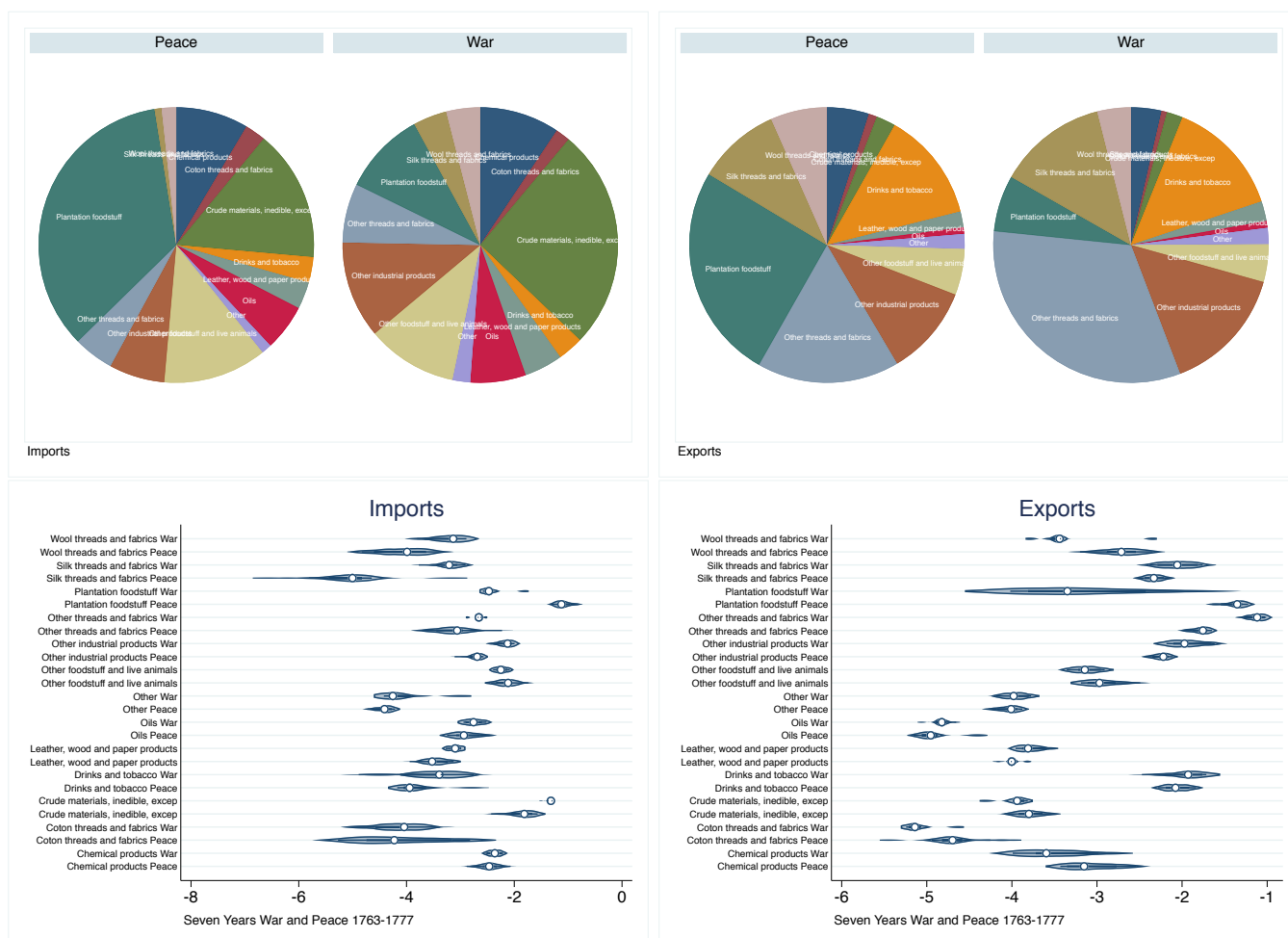


Figure 19: Peace 1764-1777 and Revolutionary War

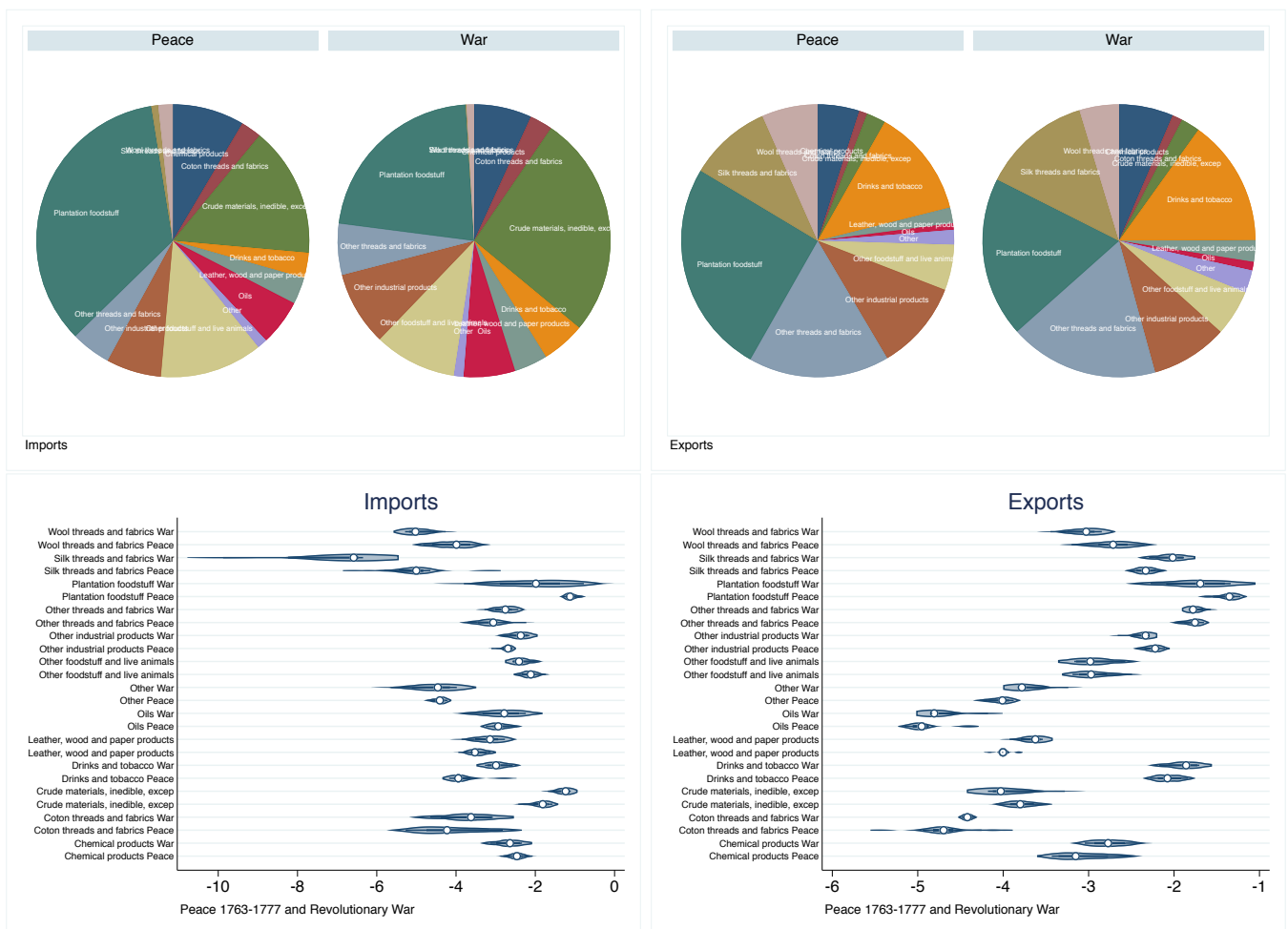


Figure 20: Revolutionary War and Peace 1784-1792

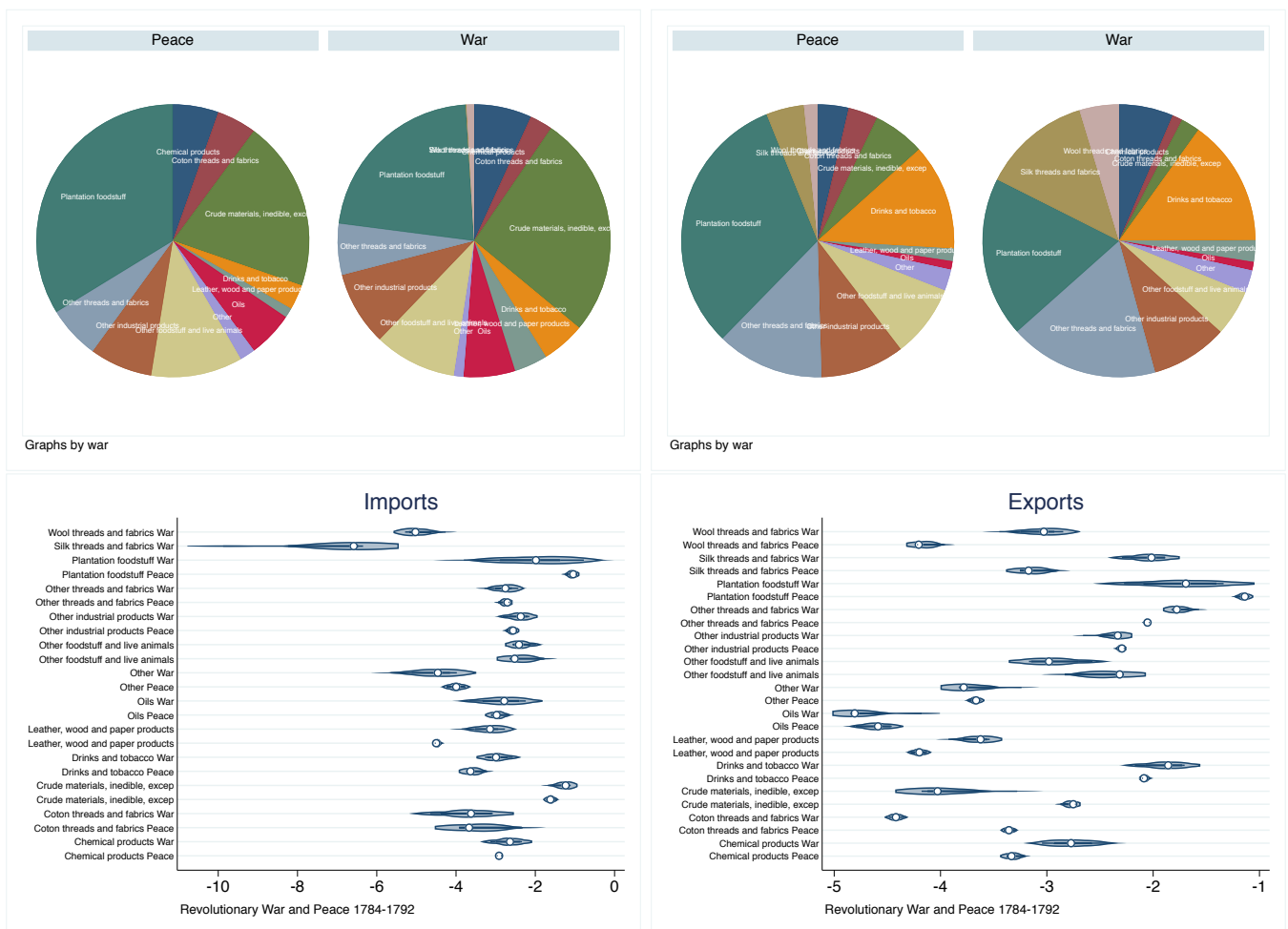


Figure 21: Peace 1784-1792 and Napoleonic War

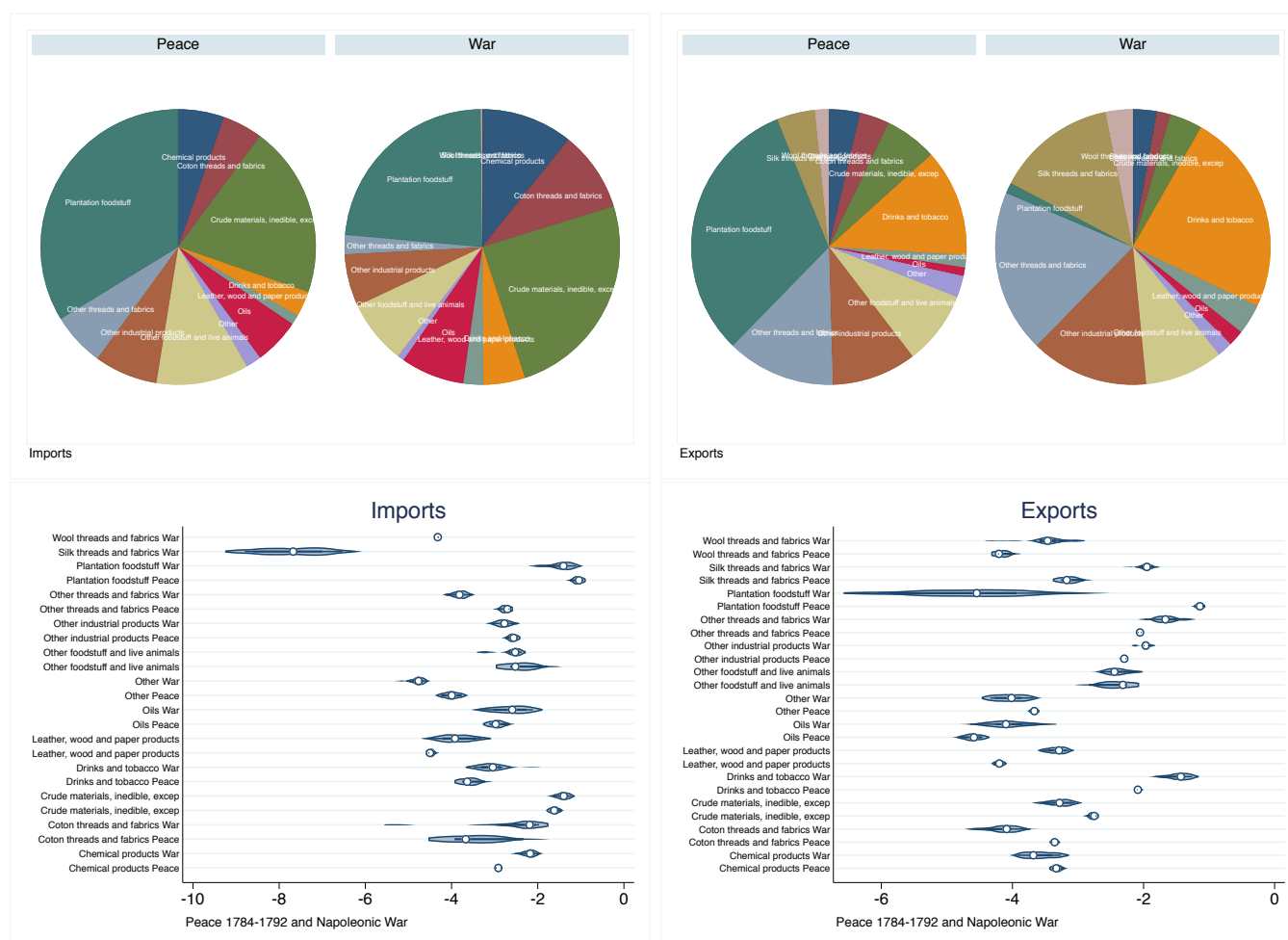


Figure 22: Napoleonic War and Continental Blockade

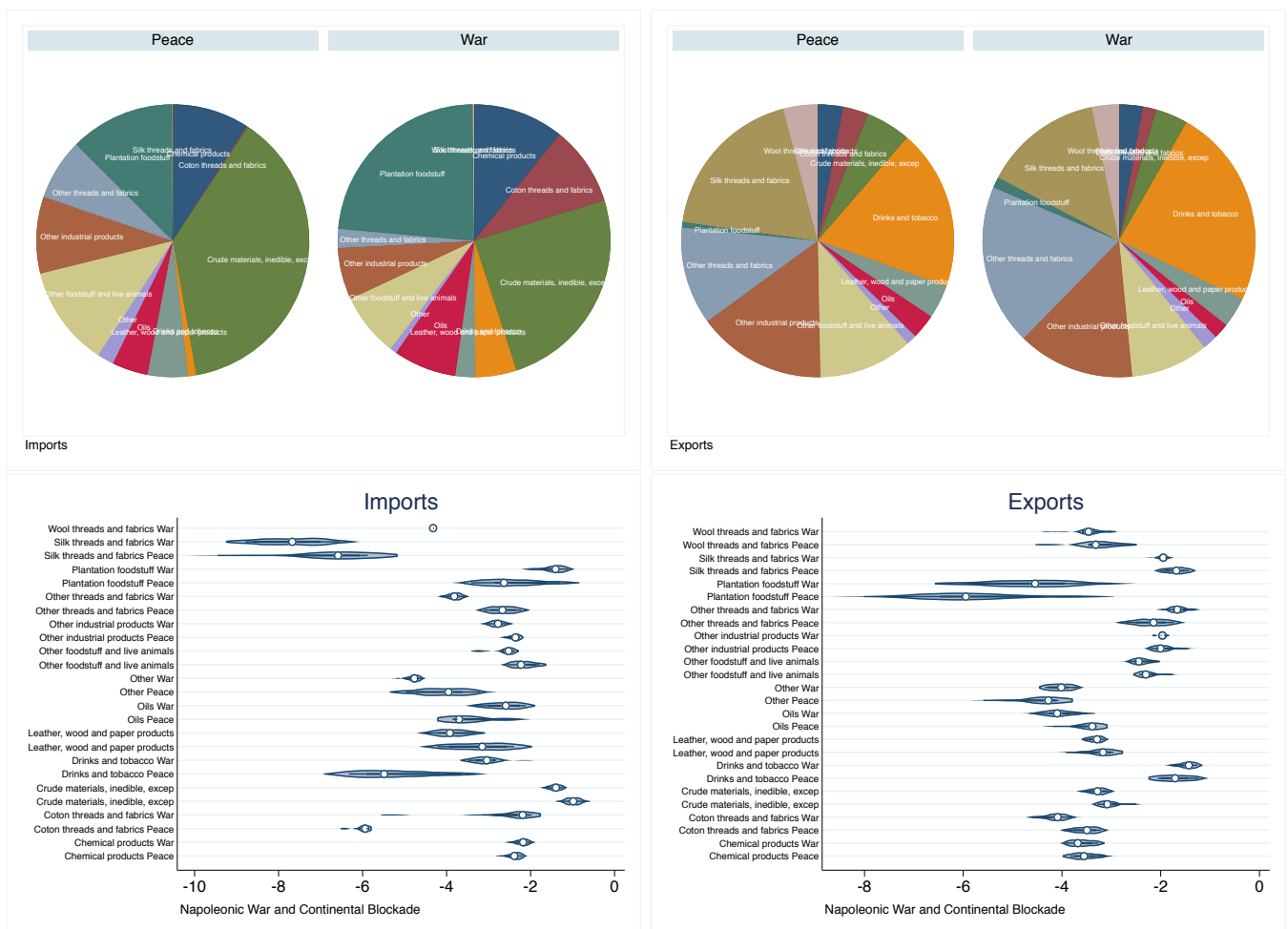
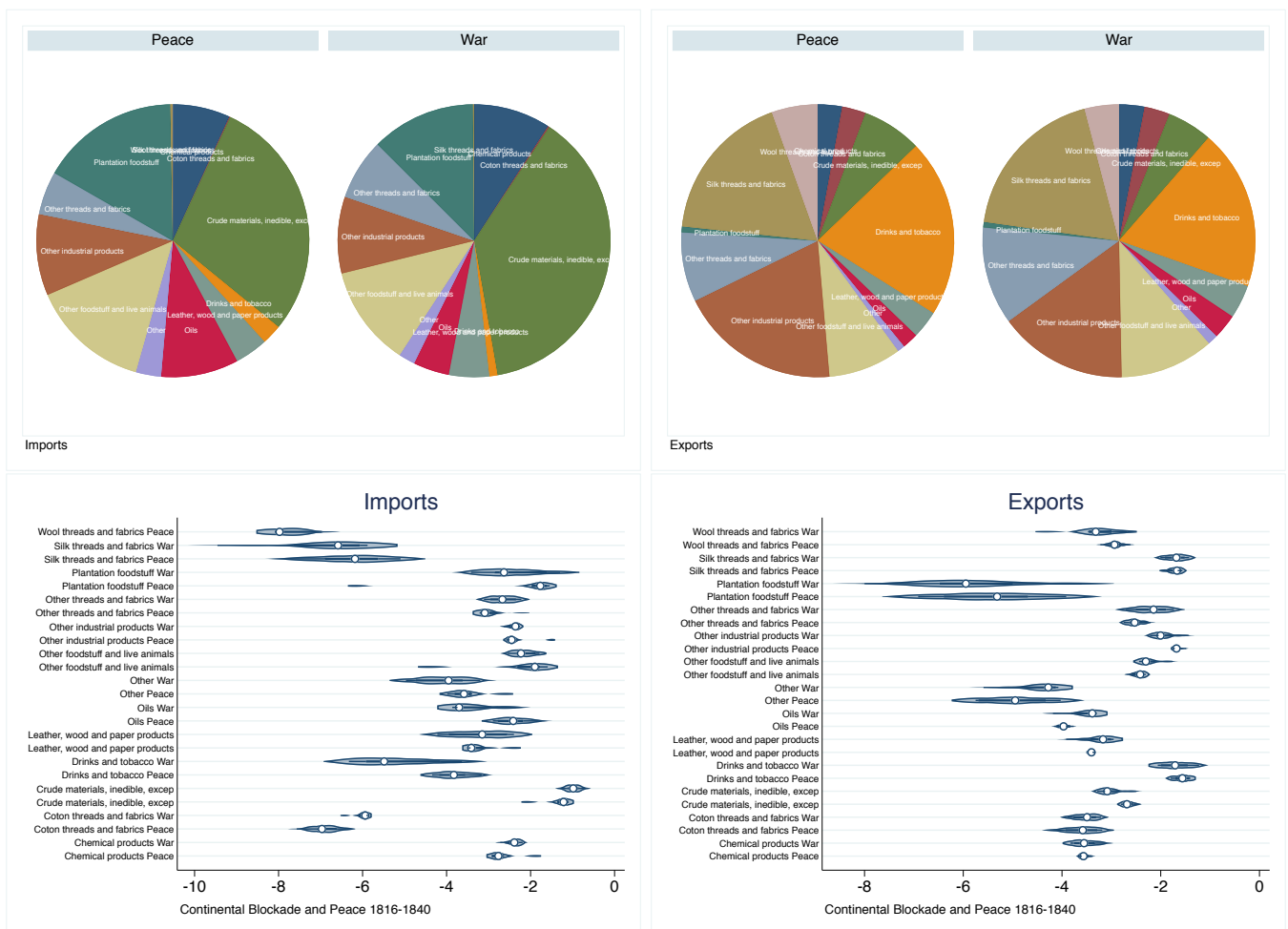




Figure 23: Continental Blockade and Peace 1816-1840



## 8 Conclusion

In this paper we have analysed the effects of different conflicts on French trade in the eighteenth century. We have first created a loss measure by comparing the amount of trade that would have taken place in the absence of conflicts with the observed trade. We have done so both by using all the preceding peace periods to compute expected trade and just the period immediately before the conflict. From this computation we have observed mainly two things; first that the main losses were during the Seven Years War and the Revolutionary Wars-Continental Blockade, second that only as a consequence of these two conflicts there were long lasting effects. This leads us to think that there must have been a common factor that made these two wars so disruptive. We analyse several cases. Naval supremacy is a possible explanation and for this reason we construct a measure to account for it. We take the ratio first of France and Great Britain's number of warships, then that of France and Great Britain including their allies, and finally France with neutral countries and Great Britain including their allies. Contrary to our expectations, we find rather a positive relation, meaning that an increase in the number of warship was linked to a bigger loss in trade. This can possibly be explained by the fact that countries were investing in their navies in the attempt to protect their trade or to fight wars. However, this does not seem to explain the loss in trade per-se. Another option was the loss of colonies. Especially towards the end of the century, France lost some of its richest colonies, which had a consequence on their imports. We have created a measure to account for the colonies loss, weighted for the share of trade those colonies accounted for. We find in this case little more correlation with the loss function, however this does still not entirely explain the losses of the Seven Years War, nor the fluctuations in this measure seem to be related to the loss in the Blockade period. Finally, we have investigated the policy towards neutral countries, which had been changing throughout the century. We find that, whenever the policy with respect to trade with neutral countries were looser, war losses were limited and commerce could recover its pre-war level very quickly, even outperform it. On the other hand, when the British started blockading neutral countries as well, French trade experienced a massive drop and a long convalescence.

We conclude that, even if all these factors probably were contributing to the loss in trade during conflicts, the turning point was strictly related to policy towards neutral countries. British could efficiently curtail French trade only by blockading neutral countries.

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