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.

to be re-written at some point

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.

Maurepas, Navy Minister of Louis XV,

1718-1748

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- 1) The link between war and trade is an important question, as long-term crippling of enemy's international trade is a strategic war aim.
- 2) There is some debate on whether war is a good way to reduce the long-term international trade of a country. There is little study on the mechanism through which wars affect trade effectively
- 3) By studying one of the most important war on trade ever conducted, this paper shows that reducing trade is difficult, requires the use of multiple war measures and works through imposing structural changes on the enemy's trade structure, not simply by reducing its trade.

And so, outline... 1. What policies were implemented? 2. Impacting trade through war is difficult (loss function and cost/benefit analysis) 3. It works through imposing long-term structural change. 4. What policies are good for that?

That looks similar to what you are suggesting?

As a reminder, in my latest presentation:

- 1) Renewed interest in trade wars («Trade wars are good, and easy to win » Trump 2018)—The eighteenth century knows something about trade wars (under a different form) Did Britain succeed? At what cost? How? This is a single event, so do not expect causality to be clearly proven But these data have never been put together before, and they provide insight
- 2) Why do we care? Important to understand the effect of wars in general Important to understand the globalization/deglobalization cycle from 1490s
- to 1820s Important to understand (and contrast) the geopolitical history of the 18th and 19th century Trade wars coming a gain at the forefront
- 3) Our hypothesis: It was a difficult and costly endeavor It succeeded because the French cooperated through the Continental system (including the fight against neutral shipping) The key factor was not to reduce the level of trade, but to force its structural change

Eighteenth-century Britons were, according to their books, much more preoccupied with war with France than with the Industrial Revolution (figure 1). How was mercantilist warfare (Conti, 2017) 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. Jefferson (1823) famously noticed that European nations were nations of eternal war. Indeed, from 1700 to 1825, two years out of three experienced conflict between major European powers (Roser, 2016). Rivalry between Great-Britain and France was central, so much as the period between 1688 to 1815 was called the « Second 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 (Brewer (2002); Crouzet (2008); Wallerstein (1980)). 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). These wars were very costly to United Kingdom Baugh (1965); Brewer (2002); Neal (1977)) Yet, not all of these conflicts achieved their goal effectively. Looking at figure 2, 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 then 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. 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.

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2 Literature

This paper bridges two different literature - the economic literature concerned with the relationship between war and trade and the historical literature, which focuses on trade wars.

As for the former, much has been written on both possible implications; the impact of trade on wars and that of wars on trade. Nonetheless, conclusions vary substantially. The so called "liberal" strand of the literature concerned with the impact of trade on war posits that it promotes peace since it is a better method of expansion than wars (Doyle (1997), Oneal and Russet (1997), Polachek (1980)). On the other hand, the "realist" standpoint claims that there is no impact of trade on wars and, if any, that is a positive one. Countries in facts will be pushed to move war to maintain trade supremacy (Ripsman and Blanchard (1996), Levy (1990), Buzan (1984)). The existence per-se of the two different literatures reveals an obvious endogeneity probloem. An alternative approach by Martin et al. (2008b) attempts to tackle this simultaneity bias. Using a game theory model, they show how the likelihood of war for countries involved in multilateral trade agreements is higher than for those in bilateral ones. They explain it as a consequence of a reduced bilateral dependence and opportunity costs. Using a similar method, Polachek and Xiang (2010) reaffirms the centrality of opportunity cost in discouraging war and the inverse relation between war and trade. Further in this direction, with mixed results but a similar approach, Kim (1998), Keshk et al. (2004), Hegre et al. (2010), Goenner (2011) and Leonard (2020) model trade and conflict simultaneously.

talk about Martin et al. (2008a), for more recent literature review see Peterson and Zeng (2020). Possibly very relevant for us: Feldman et al. (2020)

The reverse implication - the effect of war on trade - has not been less studied. In this respect, however, there is a general agreement on the sign of the effect - the impact is mostly found to be negative - and the debate focuses more on its size and persistence. Levy and Barbieri (2004) find a mild and temporary impact on the trade with adversary country, using a panel of dyads between 1870 and 1992. Blomberg and Hess (2006) shows large and positive impact of peace on trade for all

¹McMillan (1997) provides an extensive review of these two competing strands.

kinds of conflicts. Anderton and Carter (2001) distinguish between conflicts with major and minor power and observe significant pre and post war effects only in the former case. Along similar lines, Rahman (2010) shows that conflicts with a major naval power are particularly disruptive. Glick and Taylor (2010) venture to quantify the effects of the two World Wars not just in terms forgone trade but also lost human capital. Their conclusion is that the negative effects extend to neutral countries and can persist up to ten years.

More recent literature: Chang and Wu (2020)

Some literature of trade wars, not just wars

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.

The aim of this paper is [to write up] Roadmap [to write up]

3 Measuring the achievements of trade wars

In this section we start by providing a brief summary of the historical setting we are analysing. We give an overview of the standard practices in trade wars at the time, which we analyse more detail in section . We then define a measure, which we call loss function, to illustrate the disruption in French trade due to wars. We reckon this is an approximate measure (see section) however it provides a first idea of which wars were more disruptive and the length of their effects.

3.1 Historical background

The eighteen century was a period of "eternal wars". Two out of three years experienced a conflict and the main protagonist were always the French and the British. A priori, the Anglo-French Wars were destructive for trade. Both sides used "direct" and "indirect" means to capture or destroy their enemy's merchant shipping. In fact, along with deploying the navy for this purpose, they were also issuing letters of marks to allow predation by private actors called privateers. These actors could either be private men-of-war, whose main aim was the capture of ships, or merchant vessels, that would have been happy to capture enemy ships if the occasion were to arise. The role of privateers depended on the attractiveness of alternative profit-making activities (Hillmann and Gathmann, 2011; Villiers, 2002, p. 673) - i.e. on the degree to which regular trade was endangered - but their impact on the French merchant fleet was especially strong during the War of American Independence (Hillmann and Gathmann, 2011, table 1) (see Figure 11 and Figure 12). Together with the threat to cargo, captivity for sailors also represented a problem. Even though they were liberated at peace

time (and sometime earlier through exchange of prisoners), mortality in British prisons was such that their capture represented a long-term loss for the French navy and merchant fleet Le Goff (1998). Clearly merchants were reticent to trade in these settings and a first solution was to rely on insurance. Forgone profits however could not be insured (Ducoin, 1993, p. 160), Villiers (2002), (Butel, 1973, p. 690-720) and sometimes insurance rates were increasing so much that shipping was discouraged altogether. As a consequence, the standard response was ultimately, in the eighteenth century like in the twentieth century, to organize convoys protected by military warships (Villiers, 2002, p. 393, 407, 448, 641). Despite the misgivings of merchants that saw their commercial liberty curtailed, convoys were a good solution, as long as the French navy was powerful enough to defend the merchants vessels. This, however, was no longer the case during the Seven Year War or the Revolution and Napoleonic Wars, as the British became better at organizing the blockade of French ports (more details on the British blockade is reported in appendix M). Another solution was to rely on neutral shipping. Neutral carriers were somewhat protected from British predation on the sea and, when possible, French merchants hid their cargo ownership behind a neutral partner or moved to neutral countries and operated from there altogether (Marzagalli, 2016). This happened to the extent that historians have even reflected that war periods might have been necessary to the functioning of the Exclusif Colonial, i.e. the theoretical monopoly of French merchants on French colonial trade (Lespagnol, 1997; Marzagalli, 2016; Morineau, 1997).² Again, this was a viable solution only as long as the British and the French accepted the possibility of the other benefiting from trade with neutral partners. This was no longer the case during the Seven Years War and the Continental Blockade, when more and more severe measure towards neutral countries were introduced.

3.2 Loss function

In the preceding section we explained what the main tools used to hinder the enemy's trade in war time. We provide here our approximate measure of loss for French trade. Our data come from the Bureau de la Balance du Commerce (see appendix L for more detail on the data). We construct it as the percent loss, compared to past peace time trend, as shown in equation 3.2.

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

²The 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, Juhász (2018) 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.

Figure ?? show the annual loss function and the mean loss function by peace or war period for France. The green line shows observed trade versus trade predicted based on all preceding peace periods, whereas the yellow line shows the comparison with the prediction based one preceding peace period only.³ This graph suggests 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 substantially higher during these conflicts (more than 40% and 60% respectively for loss and memory-less loss respectively) than during the Austrian Succession War and the American Revolutionary War (respectively 20% and 30%). Furthermore, for the Revolutionary & Napoleonic War and the Seven Years War, the loss stays positive also after the end of the conflicts, meaning the effects were long lasting, whereas it becomes negative after the Austrian Succession War and the American Revolutionary War. This implies that the disruption of French trade lasted through peacetime for these two wars. The right-hand panel in this figure reaffirms the point. 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. We also compute the loss function for Great Britain available in figure 7 and 8 in the appendix. What we observe here is that losses are much less significant than for France for the overall period. In particular, the loss function is negative - which suggests an increased trade with respect to peace time - between 1756 and 1778 and after 1781, at least while using all past period to predict the trend.

Altogether the loss function for the two countries suggests that Britain was not systemically successful in curtailing French trade, however British trade was never as affected by wars in general.

4 War-time strategies to fight enemy's trade

As explained in section 3.2 we construct a loss function to observe the trend of French losses throughout the period in analysis. In this section we establish a link between the loss function and the most common strategies used to curtail trade. We aim to identify here the channels used by the British and disentangle their mechanisms. We also provide a measure to quantify their success and ease the comparison with the loss function. We examine in detail the following four possible channels: 1) ship building and alliance making, 2) capture of colonies 3) predation on shipping 4) predation on neutral.

³We exclude 1792 from the computation of peace time trends when we take into account only the preceding peace period. Its value, in a era of inflation, is doubtful and there are very limited peace years with data available from 1784 to 1792: only 4 (including 1792). Including it increases the past peace time trend for the pre-1815 period from 1.4 p.c. to 2.9 p.c. Including it does not change much when computing the peace trend based on all past peace periods: it stays at 2.65 p.c.)

4.1 Ship building and alliance making

British naval supremacy over France meant that the British could blockade French ports and capture French ships. To have a sense of the superiority of the British navy over its enemies, we compare the number of warships available to Great Britain and its allies with that available to France and its allies, as provided in Modelski and Thompson (1988). A complete discussion of what we classify as ally or enemy during each war is provided in appendix N. Figure 13 reports the ratio of the number of warships of France and Great Britain, France and its allies and Britain and its allies, France its allies and neutral countries and Britain and its allies. We see here that the most favourable war for France, its allies and neutral countries was the Seven Years War, when the number of neutral warships or ships on the French side was more than twice as much that of Britain and its allies. This number is, to some extent, artificially inflated by the fact that Russia and Sweden were allied to France in this war, despite the fact that there was no real common naval action with France and not a lot of French ships in the Baltic and the Black Sea for them to protect. Nonetheless, the ratio, is still the highest throughout the period in analysis, suggesting a nearly one to one relation between the two navy in terms of size. During the American Revolutionary War and the Napoleonic Wars the ratio is lower, even though there are some spikes, which bring it again close to one, depending on the shifting alliances (eg both Spain and Russian were neutral in 1795, the Ottoman Empire became neutral in 1802, etc.). The least favourable of all wars was the Austrian Succession War, as the Dutch and the Russian were then allied to Britain.

We argue that there is no clear relationship with the loss function and the supremacy of the British navy. In fact, in periods when the French navy was at its peak, the loss function is still high.

4.2 Capture of colonies

West Indian French colonies were a major source of 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 both imports and re-exports. We aim to quantify here the importance of this source of trade, by observing the evolution of its colonial empire. We focus on colonies which were the major producer of sugar and coffee. We consider 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 (Daudin et al. (2020) 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 - when French empire was at its maximum - and gets reduced by an amount proportional to the share of trade whenever a colony is lost.

Assigning colonial supremacy over Saint Domingue requires additional explanations. Saint Domingue in fact was the major source for colonial goods for France and experienced a complex transition to independence. 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 was being cultivated normally so we consider it again as a colony - but ultimately in 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 and between 1810 and 1816. Martinique was controlled almost continuously by the British, from 1794-1815, to be traded back to France, after the Napoleonic Wars. In 1814, the Restauration attempted to re-create the late eighteenth century colonial system. This included the re-establishment of the Exclusif and reconquest of Saint-Domingue or the establishment of some substitute colony (Todd (2011)). In a secret clause of the 1814 peace treaty, Great-Britain pledged not to hinder the re-instauration of French sovereignty on Saint-Domingue (Schefer (1907)). Yet, France never managed to re-create its "first" empire, and the economic loss was not recouped. Figure 14 shows the evolution of the colony loss measure. The colonial loss of the Seven Years War were minimal (Canada was not an important trade partner for France) whereas a large part of the French Empire was gradually lost in the Revolutionary & Napoleonic Wars. We argue that, despite loss of colonies was very heavy on French trade, and Saint Domingue in particular, this was not enough to make a successful trade war. In fact, the loss of colonies does not explain the peak in loss after the Seven Years War.

4.3 Predation on French shipping

Most of French international trade was conducted by sea (see Figure ??). Great Britain had three ways of affecting sea trade: outright destruction of merchant vessels, ransoming, and prize taking. The destruction of merchant vessels could be direct or indirect. Direct destruction was rare as it was not a gainful activity for the British Navy and privateers. Yet, dangers linked to potential capture by the British probably led French merchant ships to take more navigational risks, such as sailing off-season to escape them. This was likely to lead to more shipwrecks due to weather or sailing

through dangerous waters, which we define "indirect" way of destruction. We have little information on the size of this effects. Ransoming implied coercing a merchant vessel into paying a ransom to the privateer of the Navy ship. However, it left the door open to abuse. This induced the British government to limit it more and more drastically from 1744, and forbade it altogether by the time of American Revolutionary war (see Hillmann and Gathmann (2011), p. 734). Prize taking was much easier to monitor by the British state. The French vessel was brought back along with some members of its crew to a British port. The captors had to demonstrate "the prize was lawful and the rights of neutral and allied ships engaged in legal trade had not been harmed" (see Hillmann and Gathmann (2011), p. 734) in front of the High Court of Admiralty (if the captor was a civilian ship; the procedure was different for captures by the Navy). This procedure led to a paper trail that deemed or not the prizes as "fair". Because direct destruction was rare and ransoming was limited, the overall value of prizes captured by the British navy and privateers provides a good measure of the the pressure war-time predation exerted on trade. From Hillmann and Gathmann (2011) we get an estimate of about 11.5 percent of French merchant ships intercepted by the British,

Is this by British navy or navy+privateers?

for a total of 4 percent of the value of French overseas trade during the War of Austrian Succession, the Seven Years War and the War of American Independence. Thanks to additional data provided by Henning Hillmann (coming mainly from records at the PRO High Court of the Admiralty archives and underlying Hillmann and Gathmann (2011)), we can compute an approximation of the number and the nationality of prizes captured by privateers up to 1809. Starkey (1990) provides the number of prizes condemned as legal by the High Court of the Admiralty in London, both from privateers and the Royal Navy from 1702 to 1785.

Is this second source just a double check with the first or it provides a different insight?

Benjamin (2009) provides a chronology of prizes taken by the Royal Navy in the sample first gathered by Hill (1998).

Chronology of values or of number of prizes? could you clarify a bit what is added by Bejamanin to hill source?

Data from these three different sources are summarised in figure 11 in the appendix.⁴

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The share of privateering activity was very significant until Seven Years War but became marginal during the Revolutionary & Napoleonic Wars. According to Hillmann and Gathmann (2011), this is explained by the development of other war-time trade profit opportunities that made privateering

⁴From 1793 onward, we use the data on the value of Navy Prizes from Benjamin (2009), based on Hill (1998). Before that period (and from 1793 for privateers) the data come from Hillmann and Gathmann (2011); Starkey (1990). Before 1793, we assume the same median value and share of French prize for the Navy Prizes that what is available for privateers

a less interesting alternative for British merchants. The total number of prizes however, remained high until 1813, suggesting that the British navy compensated for the lack of privateers actions and kept the threat of predation constant. In 18013 the total number of prizes declines abruptly. This does not necessarily mean that probability of capture became smaller but could be due to a smaller number of French ships sailing altogether.

This graphs are not readable enough. We need to add axis ticks and have axis labels in interval of ten.

Another measure of the pressure British exercised on French trade comes from English and British trade statistics that measure prize goods imported in Great Britain up to 1800 (Ashton (1960)) (see Figure 12)).

Maybe put in the appendix and mention? Let's see

4.4 Predation on neutral shipping

The role of neutrals during wars, and especially during trade wars, was very important. On the one hand they were the only ones who could provide goods that were not otherwise available due to the war (Hedberg and Karlsson (2015)). On the other hand, they were an expedient for merchants who hid their cargoes as neutral cargo and could continue to trade. (for example, see Carrière (1973); Schnakenbourg (2013, 2015)).

It was well understood that enemy cargo could be seized, however the crux of the matter in wartime was the definition of "enemy cargo". Since the nationality of cargo was difficult to ascertain its definition experienced an evolution overtime.

During the War of Austrian Succession, shipping between a non-belligerent country and a non-blockaded port in France was allowed by the rules of war, provided that both the ship and the goods belonged to neutral merchants. Shipping to blockaded ports on the other hand could be seized. (Schnakenbourg, 2013, p. 112). The true nationality of the cargo, however, was difficult to ascertain, as neutral ships would not yield to inspection, especially when they were escorted by neutral warships⁵. This let the door open to trade under neutral flag, especially for French merchant. During the second half of the eighteenth century, belligerent countries - especially Great Britain - decided to close off these ways for enemy's trade to continue.

In 1756, during Seven Years War, the British 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

⁵they had claimed from the seventeenth century the "right of convoys", that is "immunity from search for neutral merchant vessels sailing under the convoy of a warship of the neutral". (The Editors of Encyclopaedia Britannica, 2014)

the right to seize neutral shipping to look for contraband (and exercised it). Moreover, 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* (Tarrade, 1972), 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 which, in 1780, on the eve of the American Independence War, funded the *League of Armed Neutrality*⁶ to protect their interest against the threat of losses similar to those experienced during the Seven Years War. 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 (Schnakenbourg (2013), p. 121-125). This experiment however did not have a long lasting success and it was finally put to an end in 1783 with the treaty of Paris⁷ (Griffiths, 1971). Nonetheless, Ancien Régime France remained active at protecting the rights of neutral shipping, as it saw it as a means to continue its trade during war years (Schnakenbourg (2013), p. 129). This came to the extent that in 1784, France gave the West Indies island of St. Barthelemy to Sweden partly to encourage neutral trade during wars (Schnakenbourg (2013), p. 326).

The situation changed with the Revolutionary & Napoleonic wars. 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, the situation become even worse 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 (Davis and

⁶Russia, Denmark and Sweden were part of it

⁷The 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.

Engerman, 2006). 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.

Differently from the firs half of the century, in this setting the United States had become a new powerful independent actor in international trade (e.g. in mediating between Great Britain and Spanish America (Cuenca-Esteban, 2014)). Considering the size and dynamism of their economy, they were not as easy to dismiss as small neutral trading nations when peace returned. Therefore, with the threat on trade by both France and Britain 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. However, they had no better luck than France in the war, which was ultimately won by the British, but caused 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.

During this period the United States had become a new powerful independent actor in international trade (e.g. in mediating between Great Britain and Spanish America (Cuenca-Esteban, 2014)) and it played an important role in "neutralizing" French trade (Marzagalli, 2005, 2015))). Considering the size and dynamism of their economy, they were not as easy to dismiss as small neutral trading nations when peace returned. Still, peace had an important role on their shipping income, which was in the 1820s down to one fourth with respect to the level of 1807 and 1811 (less than 10 Million US\$ in 1820 vs. 40 Million US\$ in 1807) (North, 1960, tables A-4 and B-2).

Figures 15, 3 and 16 provide some figures to contextualise these events. Figure 15 gives the nationality of non-French prizes adjudicated by the High Court of the Admiralty. It is clearly dominated by Dutch losses during first year of the Fourth Anglo-Dutch war that started in 1781. However, it shows that neutral ships were sometimes declared fair prizes ((e.g. Dutch ships 1779 and 1780 and US ships during the 1790s) and that the British threat on neutral shipping was real. The extent of predation on neutral shipping might be underestimated in this graph as some ships flying a neutral flag were declared "French" at the High Court of the Admiralty.

This graph should be redone omitting the peak in danish prizes for readability

Figure 3 shows the 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 in sustaining French trade. Figure 16 is constructed by computing the mean country-specific trade loss function by war status based on all

preceding peace periods⁸ We have both a trade-weighted measure and a non-trade weighted measure, where we had to exclude *Empereur* after 1794, because of a territorial change⁹ and *Hollande* after 1814 as it included current day Belgium from 1815. The negative trade loss number for trade with foes in 1787-1789 can be explained by 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 Revolutionary & Napoleonic Wars. Both Figure 3 and Figure 16 suggests that trade with neutral is important in explaining the contrasting resilience of French trade after each of its war with Great-Britain.

I think we should keep number of protagonist and colonial empire evolution, the rest goes in the appendix.

More generally, for each of this subsections make a brief summary and re-write in a more consequential way. Also, explain graphs and dont comment them, since most will be in appendix.

5 Peace-time consequences

In this section we exploit statistical tools to test the relation between wars and changes in composition of trade. We want to investigate whether the secret of an effective trade war was to force the enemy into restructuring its trade permanently. We do this in two ways. First we run a MANOVA test comparing all peace and all wars periods. Then we run a regression of an estimation of French trade loss on the share of French products.

5.1 MANOVA test

We consider the structure of trade in terms of both goods and geography. In terms of the former, we use an adapted version of the SITC classification, which is reported in table 8 in the appendix. ¹⁰ As per what concerns geography, we have grouped trade flows into 9 different destinations, which are reported in table ??, also in appendix. For both we observe the share of trade of each of these categories, comparing the war periods with the peace before and after and the peace periods with each other. What we want to test here, is whether there is a correlation between a longer lasting change in the structure of trade and the loss in French trade. More precisely, we want to investigate whether higher losses to French trade, hence a successful British trade war strategy, were associated not only to the necessity to restructure trade during war time, but also to hinder the capacity to get back to the pre-war trade structure (which, in some sense, we consider "optimal").

In order test this we conduct a Multivariate Analysis of Variance (MANOVA), allowing for het-

⁸More on the definition of the loss function in section 3.2

⁹trade was mainly with current Belgium before 1794 and mainly with Austria after 1794

¹⁰More on how this SITC18 classification is defined is available here

erogeneous co-variances, using the affine-invariant modification by Krishnamoorthy and Yu (2004) of the test proposed by Nel and Van der Merwe (1986). The two mean vectors here are the 13-or 9-dimensional vectors whose components are the SITC or the country trade shares respectively and the groups are the war-peace periods or the pre-war and post-war peace periods. We do it for imports, exports and imports exports together and then excluding plantation foodstuff. Resulting p-values are reported in tables 10 and 11 and graphs from 17 to 30 show the distribution for each site and country in each period.

Considering a 5% threshold for rejecting the null hypothesis of equality of means, we observe from table 10 that there is undoubtedly a change in trade structure by products between war and peace periods overall. The p-value is zero, which implies that at least one sitc category (which is not necessarily Plantation foodstuff, because the p-value increases after removing it from the analysis) changes between the two periods. Narrowing down our analysis we proceed to observe the difference between trade structure in war and preceding or following peace periods. Both because of lack of data and of very short peace periods, the comparison is not always possible. We could only examine the difference between Seven Years Wars and the 1764-1777 peace, 1764-1777 peace and War of American Independence, French Revolutionary Wars and Continental Blockade and Continental Blockade and the 1816-1840 peace. In the first case we observe that we can reject the hypothesis that the two mean vectors are the same, i.e. at the end of the Seven Years War there was a clear shift in composition of trade. The only exception is for the case of aggregate imports and exports, including Plantation Foodstuff, where we fail to reject the null hypothesis, however individually on imports and exports the significance for rejection is quite high. Such dramatic change did not happen with the beginning of the War of American Independence, we observe in fact that the p-values are all above the 5% level, and even if they decrease upon eliminating Plantation Foodstuff, they remain above the threshold. Hence in this case we can say that the outburst of the conflict did not have consequences on French trading pattern. The same cannot be said for the difference between French Revolutionary Wars and Continental Blockade, when there was once again a clear shift in composition of trade, which does not only depend on Plantation Foodstuff, i.e. the share of at least another category of the SITC classification changed significantly between the two periods. We also observe that the change was longer lasting. At the end of the Continental Blockade in fact, France does not seem to recover its pre-Blockade trade structure. This cannot only be due to the fact that it lost its main source of Plantation Foodstuff import and re-export, because even excluding this category the result is consistent.

MANOVA by geography

5.2 Regression

We test here this hypothesis using 13 different linear regression of a loss function on the share of each product and of trade to each country. We run individual regressions for each product because of collinearity of the explanatory variables (which are share, therefore highly correlated) and the little number of observations, which compromises the individual estimation of each coefficient.

We need a better point here

We also do a joint test of significance for all the variables.

Talk here about the regressions

6 Can we do a cost-benefit analysis?

In a cost-benefit analysis of the efficiency of the British war on French trade, the reduction of French trade would be a good place to start. The cost for the French economy however, cannot be identified to the loss trade per-se. It is rather the loss of economic activity entailed by the reduction in trade. What were the decrease in wages and profits, both for French actors of trade and French producer? This is a tricky question. (Daudin, 2005, p. 408) evaluate the income of French actor at 38.5% of the value of intercontinental trade (i.e. trade with Africa, America and Asia, minus Mediterranean trade) and 27.5-35% of the total value of trade.

By intercontinental trade it's meant trade with the Americas and total trade is trade with the America plus the rest? - GD is it clearer?

Intercontinental trade was more affected by the British war on French trade, so maybe we should favour the higher estimate (35 %). Of course, at least part of the workers, entrepreneurs and capital could find alternative use and did not stand completely idle after the reduction of trade. (Daudin, 2005, p. 421) estimate the net loss was 40% loss of the value of the production, or 14% of the value of trade (i.e. $0.4 \times 0.35 = 0.14$). To put it in another way, a 100 livres tournois decline in the value of French trade forced workers, entrepreneurs, capitalists earning 35 livres tournois to find another employment for their labour and their capital. This other occupation only yielded an income of 21 livres tournois ($35 \times (1-0.4) = 0.14$). Hence a decline of 100 livres tournois in French trade induced a loss of 14 livres tournois for French GDP (14=35-)).

I dont get how you worked out these last two numbers – GD is it clearer?

This number is highly uncertain. Daudin (2005) argues we should take into account the dynamic effect of this income loss through lost savings and investments. This means that we can include in French losses also the expenditures on military Navy, - as one of its main goal was to protect trade¹¹

¹¹Unfortnately, the French Navy budget data stops in 1782 Acerra and Zysberg (1997); Petitfils (2015); Villiers and Duteil (1997)) but up until that date, it was always smaller than the British one.

- and the destruction or capture of French ships. This is tentatively possible thanks to information on French prizes captured both by the British Navy and British privateers, discussed in section 4.3.

I think we can delete this footnote, everything should be explained extensively in the section on privateers - GD done.

Finally, how much did Britain pay to reduce French GDP? Again, that is probably not possible to compute. A good place to start, though, is the budget of the British Navy. (Mitchell, 1988, pp. 570-587) provides the net expenditures up to 1801 (1800 is incomplete)) and the gross ones from 1802. Figure 9 presents these data. Except for the War of the American Independence, the French Navy budget always was smaller than the British one. The total value of prizes was rather small, apart during the early Seven Years War¹².

I think it is probably worthwhile keeping only the ration graph and eventually the other one in the appendix – GD no objection. We are nout sure what we will do anyway.

Figure 10 compares the cumulative British expenditures and French losses. A value less than one means that the war on trade is costing more resources to the British than to the French (neglecting the value of French prizes). The result depends on the hypothesise one makes about the existence of alternative employment opportunities for French production factors pushed out of trade. The "no alternative occupation" hypothesis is the most favourable to the trade war policy, as it assumes that French labour and French capital invested in trade just become unemployed when trade is reduced: hence French income losses are 35% of French trade losses. The "alternative occupation" hypothesis is probably more reasonable and assumes that French labour and capital find alternative, less remunerating, employment: hence French income losses are 14% of French trade losses.

7 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

¹²Prizes are pretty important in the cost/benefit analysis during the Seven Years War, in part because of the success of the British predation of French trade before the official declaration of war, but they loose their importance in the latter part of the period.

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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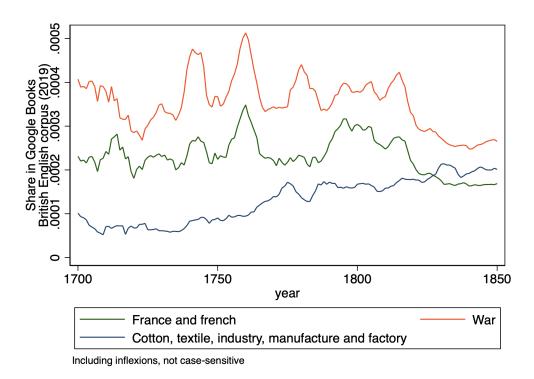
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A Introduction

Figure 1: What were eighteenth-century Britons preoccupied by?



Source: https://books.google.com/ngrams

Super 1700 1750 1800 1850 year French trade — English/GB/UK trade

Figure 2: French, British trade and Anglo-French wars

Source: French trade up to 1821: Daudin et al. (2020). French trade 1822-1840: Federico and Tena-Junguito (2016) / Dedinger and Girard (2017), England/British trade up to 1800: Deane and Cole (1969). UK trade from 1801 to 1840: Federico and Tena-Junguito (2016) / Dedinger and Girard (2017), Livre tournois silver value: de Wailly (1857) and Hoffman et al. (2000); Pound sterling silver value: Clark and Lindert (2006) and Jastram (1981)

B Historical summary

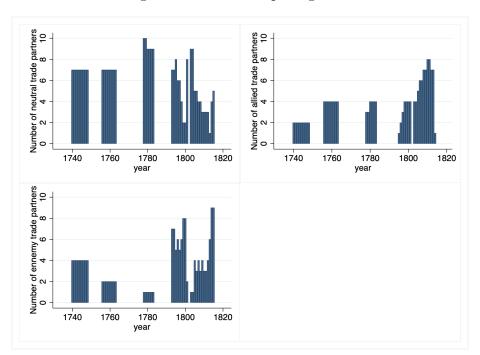


Figure 3: Number of protagonists

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

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

C The Anglo-French war

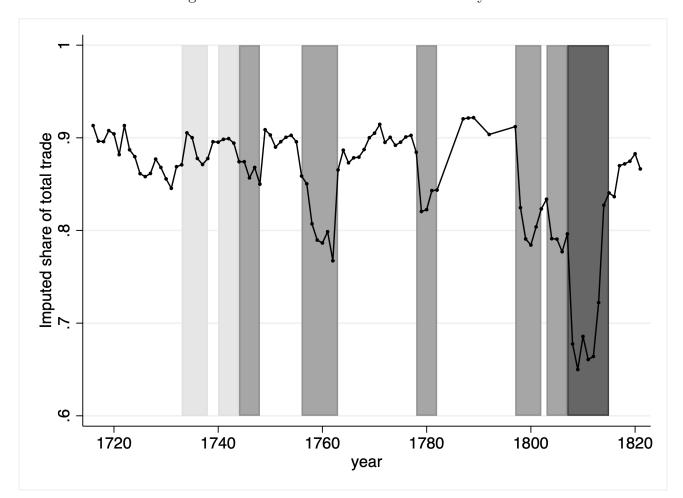


Figure 4: Share of French trade conducted by sea

Source: TOFLIT and 1792 data on the share of sea trade per country in AN F/12/1834 B $\,$

D Explained variable

Figure 5: Annual Loss Function

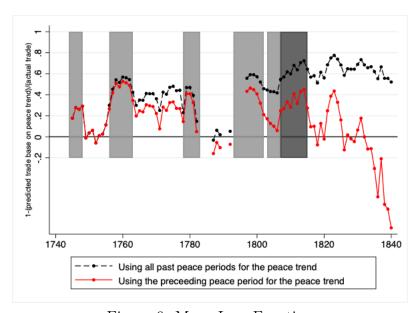


Figure 6: Mean Loss Function

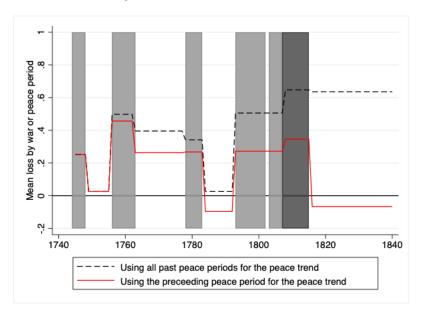


Figure 7: GB Annual Loss Function

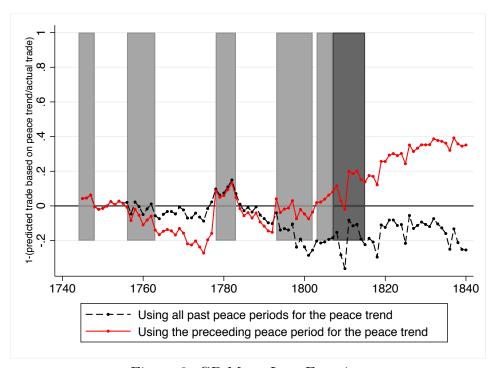
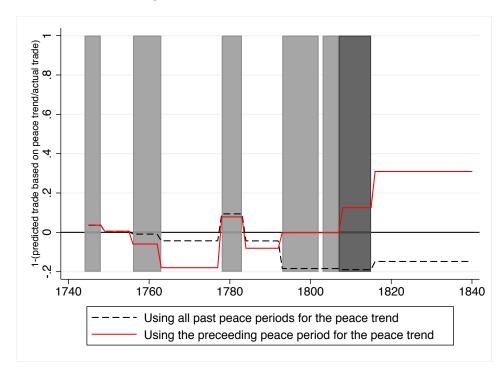
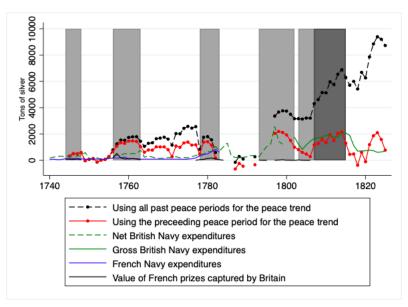


Figure 8: GB Mean Loss Function



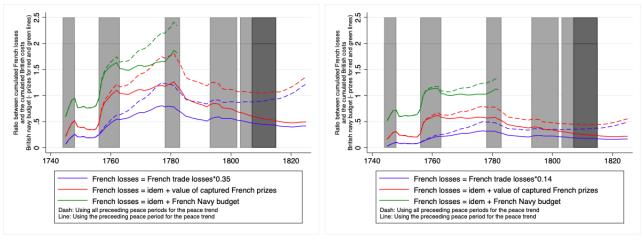
E Can we do a cost-benefit analysis?

Figure 9: British Navy budget and French trade losses



Source: See text and (Mitchell, 1988, pp. 570-587)

Figure 10: Ratio between French trade losses and the British Navy budget, high and low hypothesis

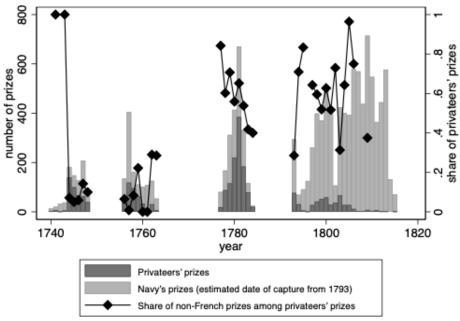


Source: See text and (Mitchell, 1988, pp. 570-587)

For these graphs, French trade loss are assumed to be nil for 1783-1786, 1790-1791 and at the 1797 level for 1793-1796

F destruction of French shipping

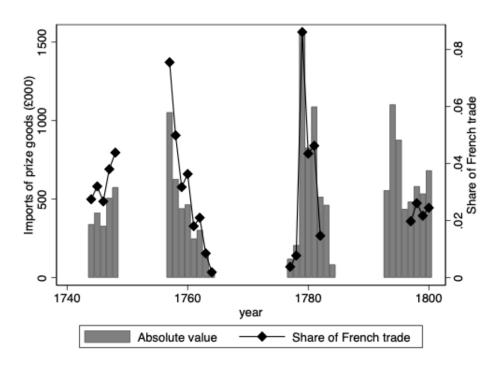
Figure 11: Ships captured by Great-Britain



Unless otherwise specified, the date is the year the prize was adjudicated

Source: Starkey (1990), data provided by Hennening Hillmann, underlying Hillmann and Gathmann (2011) and Benjamin (2009), based of the work done by Hill for Hill (1998)

Figure 12: Prize goods imports in Great-Britain



Source: Ashton (1960)

G Naval Supremacy

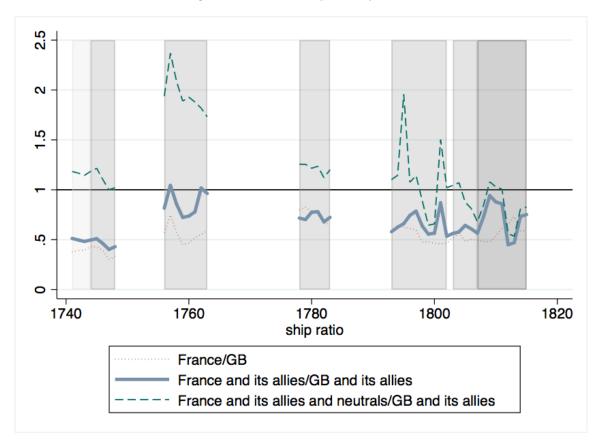
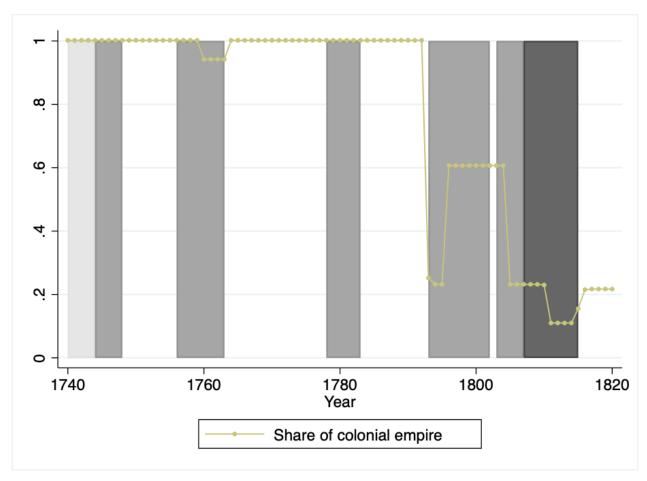


Figure 13: Naval Supremacy Ratio

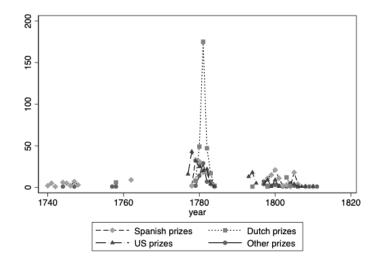
H Measure of colonial power

Figure 14: Colonial empire loss



I Neutral policy

Figure 15: Nationality of non-French British prizes



Source: See Figure 11

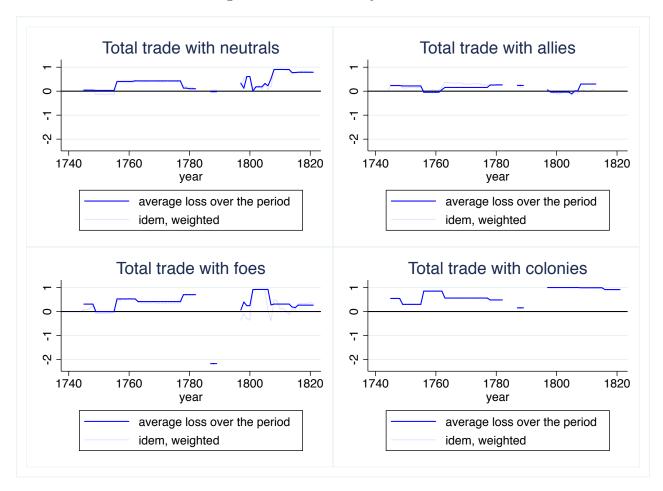
Table 2: Measure of neutral policy

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	+

Figure 16: Trade loss by war status



J Regression

ىن

Table 4: Regression of the various the loss functions on the log of sectorial shares of exports (N=54)

	Other foodstuff	Plantation foodstuff	Drinks and tobacco	Crude material	Oils	Chemical products	Leather wood and paper products	Other threads and fabric	Wool threads and fabrics	Silk threads and fabrics	Cotton threads and fabrics	Other industrial products
loss	-0.377	-2.881**	0.184	-0.798**	-0.132	-0.346	0.592**	0.291	0.545*	1.210***	-0.401	0.897***
	(-1.58)	(-2.72)	(0.85)	(-3.23)	(-0.41)	(-1.06)	(2.86)	(1.22)	(2.45)	(7.36)	(-1.07)	(3.81)
war	0.136	-0.993**	0.197^{**}	-0.088	0.377^{***}	-0.168	0.209**	0.230**	0.113	0.084	-0.399***	-0.138
	(1.93)	(-3.17)	(3.09)	(-1.20)	(3.90)	(-1.74)	(3.42)	(3.26)	(1.73)	(1.73)	(-3.61)	(-1.99)
year	0.014^{***}	-0.046***	0.008***	0.023***	0.019***	-0.004	0.007^{***}	-0.011***	-0.018***	0.003	0.019^{***}	0.002
	(6.85)	(-5.14)	(4.28)	(10.80)	(6.67)	(-1.50)	(4.19)	(-5.61)	(-9.50)	(1.80)	(5.92)	(0.90)
loss_nm	-0.265	-3.028**	0.165	-0.747**	-0.128	-0.335	0.696**	0.368	0.570*	1.194***	-0.203	1.018***
	(-1.10)	(-2.88)	(0.77)	(-2.99)	(-0.39)	(-1.03)	(3.48)	(1.56)	(2.59)	(7.19)	(-0.54)	(4.53)
war	0.137	-0.865*	0.193**	-0.064	0.381***	-0.157	0.174**	0.210**	0.089	0.040	-0.408***	-0.187**
	(1.84)	(-2.67)	(2.88)	(-0.82)	(3.78)	(-1.55)	(2.81)	(2.87)	(1.31)	(0.78)	(-3.51)	(-2.69)
year	0.013^{***}	-0.051***	0.008***	0.021^{***}	0.018***	-0.005	0.008***	-0.011***	-0.017***	0.005^{***}	0.017^{***}	0.003
	(7.13)	(-6.50)	(5.13)	(11.32)	(7.52)	(-1.98)	(5.38)	(-6.35)	(-10.39)	(3.82)	(6.19)	(1.75)
ln(loss)	-0.123*	-0.393	0.047	-0.205***	-0.045	-0.030	0.103*	0.061	0.126*	0.236***	-0.228**	0.113
	(-2.35)	(-1.57)	(0.96)	(-3.79)	(-0.61)	(-0.41)	(2.12)	(1.13)	(2.52)	(5.64)	(-2.88)	(1.95)
war	0.157^{*}	-1.069**	0.193**	-0.067	0.385***	-0.185	0.215**	0.229**	0.105	0.085	-0.335**	-0.111
	(2.27)	(-3.22)	(2.99)	(-0.94)	(3.95)	(-1.87)	(3.36)	(3.20)	(1.59)	(1.53)	(-3.20)	(-1.43)
year	0.014***	-0.056***	0.008***	0.022***	0.019***	-0.006*	0.009***	-0.011***	-0.017***	0.005^{***}	0.020***	0.005^{*}
	(8.06)	(-6.81)	(5.08)	(12.19)	(7.67)	(-2.29)	(5.67)	(-6.08)	(-10.35)	(3.90)	(7.87)	(2.60)
ln(loss_nr	n)-0.068	-0.511*	0.043	-0.174***	-0.012	-0.046	0.124**	0.085	0.102*	0.224***	-0.136	0.153**
	(-1.49)	(-2.52)	(1.06)	(-3.84)	(-0.20)	(-0.74)	(3.22)	(1.91)	(2.43)	(6.99)	(-1.97)	(3.34)
war	0.145	-0.934**	0.187**	-0.052	0.373***	-0.170	0.186**	0.205**	0.099	0.054	-0.352**	-0.153*
	(1.98)	(-2.86)	(2.86)	(-0.72)	(3.74)	(-1.70)	(3.00)	(2.87)	(1.46)	(1.04)	(-3.17)	(-2.08)
year	0.013***	-0.055***	0.008***	0.021***	0.018***	-0.005*	0.009***	-0.011***	-0.016***	0.006***	0.019^{***}	0.004*
	(7.66)	(-7.28)	(5.45)	(12.48)	(7.84)	(-2.34)	(6.17)	(-6.76)	(-10.55)	(4.96)	(7.32)	(2.65)

Source: The log of "negative" losses is replaces by the log of the minimum loss in the data)

Table 5: Regression the loss functions on the log of the sectorial shares of imports (N=54)

	Other foodstuff	Plantation foodstuff	Drinks and tobacco	Crude material	Oils	Chemical products	Leather wood and paper products	Other threads and fabric	Wool threads and fabrics	Silk threads and fabrics	Cotton threads and fabrics	Other industrial products
loss	-0.048	-1.584	-0.554	-0.183	0.579	0.457	1.661***	0.682	1.525*	3.302**	-3.431*	0.828*
	(-0.11)	(-2.01)	(-0.84)	(-0.69)	(1.29)	(1.78)	(3.69)	(1.31)	(2.32)	(3.21)	(-2.46)	(2.39)
war	-0.118	-0.196	0.288	0.335***	-0.275*	0.166^{*}	-0.162	-0.152	0.247	-1.142***	1.254^{**}	-0.131
	(-0.93)	(-0.84)	(1.49)	(4.29)	(-2.08)	(2.19)	(-1.21)	(-0.99)	(0.99)	(-3.75)	(2.99)	(-1.29)
year	-0.002	0.003	0.001	0.008**	0.001	-0.004	-0.009*	-0.003	-0.062***	-0.050***	-0.017	-0.006*
	(-0.43)	(0.47)	(0.26)	(3.33)	(0.32)	(-1.96)	(-2.33)	(-0.73)	(-9.30)	(-5.74)	(-1.40)	(-2.09)
loss_nm	-0.338	-1.965*	-0.524	-0.099	0.755	0.460	1.687***	0.813	1.281	4.016***	-3.845**	0.955**
_	(-0.79)	(-2.55)	(-0.80)	(-0.38)	(1.71)	(1.80)	(3.77)	(1.57)	(1.83)	(4.12)	(-2.80)	(2.82)
war	-0.080	-0.089	0.306	0.332***	-0.319*	0.148	-0.228	-0.194	0.216	-1.355***	1.436**	-0.179
	(-0.61)	(-0.37)	(1.51)	(4.05)	(-2.33)	(1.88)	(-1.65)	(-1.22)	(0.79)	(-4.50)	(3.34)	(-1.71)
year	-0.001	0.002	0.000	0.007**	0.002	-0.003	-0.006	-0.003	-0.058***	-0.047***	-0.021*	-0.005*
	(-0.17)	(0.32)	(0.08)	(3.47)	(0.47)	(-1.82)	(-1.82)	(-0.66)	(-9.22)	(-6.49)	(-2.06)	(-2.04)
ln(loss)	0.032	-0.180	-0.028	-0.087	0.137	0.092	0.284*	0.022	0.385**	0.329	-0.394	0.087
	(0.33)	(-0.98)	(-0.19)	(-1.48)	(1.36)	(1.58)	(2.64)	(0.18)	(2.76)	(1.31)	(-1.20)	(1.07)
war	-0.136	-0.254	0.253	0.357^{***}	-0.285*	0.165^{*}	-0.142	-0.104	0.206	-1.002**	1.144^{*}	-0.098
	(-1.06)	(-1.04)	(1.28)	(4.59)	(-2.13)	(2.14)	(-1.00)	(-0.65)	(0.84)	(-3.01)	(2.56)	(-0.91)
year	-0.002	-0.003	-0.001	0.008***	0.002	-0.003	-0.004	0.000	-0.059***	-0.037***	-0.029*	-0.003
	(-0.75)	(-0.46)	(-0.24)	(4.11)	(0.66)	(-1.70)	(-1.23)	(0.06)	(-10.40)	(-4.51)	(-2.65)	(-1.10)
$ln(loss_nn$	n)-0.029	-0.182	-0.074	-0.040	0.112	0.098*	0.282**	0.029	0.269*	0.388	-0.469	0.101
	(-0.35)	(-1.19)	(-0.60)	(-0.80)	(1.31)	(2.03)	(3.23)	(0.29)	(2.20)	(1.88)	(-1.73)	(1.49)
war	-0.105	-0.223	0.285	0.343***	-0.292*	0.147	-0.188	-0.111	0.230	-1.092**	1.252**	-0.121
	(-0.80)	(-0.90)	(1.42)	(4.27)	(-2.14)	(1.90)	(-1.34)	(-0.69)	(0.90)	(-3.28)	(2.80)	(-1.11)
year	-0.001	-0.003	-0.000	0.007***	0.003	-0.003	-0.004	0.000	-0.057***	-0.038***	-0.029**	-0.003
	(-0.47)	(-0.52)	(-0.11)	(3.83)	(0.87)	(-1.81)	(-1.22)	(0.04)	(-10.01)	(-4.92)	(-2.78)	(-1.21)

Source: The log of "negative" losses is replaces by the log of the minimum loss in the data)

Table 6: Regression the loss functions on the log of the geography of exports (N=67) $\,$

	Germany				North			
	and			Low	of		United	United
	Switzerland	Iberia	Italy	Countries	Holland	Overseas	Kingdom	States
loss	0.937***	0.583^{*}	0.218	-0.032	-0.799	-0.110	-0.348	0.869
	(4.03)	(2.47)	(1.09)	(-0.11)	(-1.94)	(-0.17)	(-0.32)	(0.46)
war	0.481^{***}	0.040	0.013	0.027	-0.281*	-1.090***	-1.437***	0.189
	(6.53)	(0.53)	(0.21)	(0.30)	(-2.15)	(-5.23)	(-4.03)	(0.34)
year	0.003	-0.009***	-0.003	0.001	-0.000	-0.034***	0.017	0.043
	(1.45)	(-4.61)	(-1.49)	(0.45)	(-0.00)	(-6.20)	(1.82)	(1.44)
loss_nm	1.019***	0.708**	0.209	-0.016	-1.006*	-0.299	-0.293	0.176
	(4.20)	(2.89)	(0.99)	(-0.05)	(-2.35)	(-0.43)	(-0.25)	(0.11)
war	0.432^{***}	-0.003	0.007	0.025	-0.216	-1.054***	-1.434***	0.311
	(5.54)	(-0.04)	(0.10)	(0.26)	(-1.58)	(-4.74)	(-3.75)	(0.57)
year	0.005**	-0.008***	-0.002	0.001	-0.001	-0.034***	0.016	0.053*
	(2.75)	(-4.98)	(-1.39)	(0.46)	(-0.34)	(-7.15)	(1.99)	(2.19)
ln(loss)	0.105^*	0.053	0.010	0.023	-0.017	0.090	-0.132	0.654
	(2.45)	(1.26)	(0.29)	(0.47)	(-0.23)	(0.80)	(-0.71)	(1.53)
war	0.524***	0.076	0.034	0.005	-0.373**	-1.173***	-1.379***	-0.224
	(6.63)	(0.98)	(0.53)	(0.06)	(-2.78)	(-5.65)	(-3.89)	(-0.40)
year	0.006**	-0.007***	-0.001	0.000	-0.004	-0.037***	0.018*	0.026
	(3.36)	(-3.97)	(-1.02)	(0.20)	(-1.40)	(-7.87)	(2.26)	(1.10)
ln(loss_nn	n) 0.137***	0.084*	0.019	-0.008	-0.064	-0.021	-0.104	0.388
	(4.19)	(2.51)	(0.68)	(-0.20)	(-1.08)	(-0.23)	(-0.68)	(1.65)
war	0.456^{***}	0.026	0.021	0.031	-0.316*	-1.082***	-1.369***	-0.270
	(6.05)	(0.33)	(0.32)	(0.34)	(-2.31)	(-5.04)	(-3.75)	(-0.49)
year	0.006***	-0.007***	-0.002	0.001	-0.004	-0.034***	0.017^{*}	0.029
	(3.97)	(-4.64)	(-1.19)	(0.55)	(-1.29)	(-8.03)	(2.31)	(1.37)

Source: The log of "negative" losses is replaces by the log of the minimum loss in the data)

Table 7: Regression the loss functions on the log of the geography of imports(N=67)

	Germany				North			
	and	T1 ·	T. 1	Low	of		United	United
	Switzerland	Iberia	Italy	Countries	Holland	Overseas	Kingdom	States
loss	0.496	0.717**	0.703**	0.212	-0.030	-0.288	0.234	-2.516
	(1.30)	(2.98)	(2.69)	(0.60)	(-0.05)	(-0.36)	(0.29)	(-1.61)
war	0.811***	0.218**	0.150	0.361**	-0.206	-1.324***	-0.518	0.577
	(6.71)	(2.87)	(1.82)	(3.25)	(-1.07)	(-5.30)	(-1.90)	(1.28)
year	0.013***	-0.005*	-0.003	-0.003	0.000	-0.031***	0.011	0.084**
	(4.20)	(-2.63)	(-1.45)	(-1.05)	(0.07)	(-4.63)	(1.57)	(3.40)
loss_nm	0.631	0.832**	0.843**	0.349	0.165	-0.799	0.566	-2.569
	(1.58)	(3.34)	(3.12)	(0.95)	(0.26)	(-0.97)	(0.66)	(-1.91)
war	0.770^{***}	0.172*	0.101	0.331**	-0.238	-1.228***	-0.588*	0.642
	(6.01)	(2.15)	(1.16)	(2.79)	(-1.16)	(-4.63)	(-2.01)	(1.46)
year	0.014***	-0.004*	-0.002	-0.003	-0.000	-0.029***	0.010	0.078***
	(5.15)	(-2.45)	(-1.17)	(-1.25)	(-0.09)	(-5.21)	(1.68)	(4.01)
ln(loss)	-0.002	0.084	0.059	0.033	0.028	0.095	-0.170	-0.185
	(-0.03)	(1.95)	(1.27)	(0.55)	(0.27)	(0.70)	(-1.28)	(-0.49)
war	0.878***	0.248**	0.197^{*}	0.364**	-0.231	-1.434***	-0.336	0.282
	(7.17)	(3.14)	(2.28)	(3.27)	(-1.20)	(-5.75)	(-1.26)	(0.57)
year	0.016***	-0.003	-0.000	-0.003	-0.000	-0.034***	0.017**	0.058*
	(5.92)	(-1.67)	(-0.21)	(-1.03)	(-0.09)	(-6.11)	(2.78)	(2.73)
ln(loss_nn	n) 0.077	0.102**	0.062	0.045	0.038	-0.038	-0.106	-0.074
	(1.43)	(2.99)	(1.63)	(0.92)	(0.44)	(-0.34)	(-0.96)	(-0.35)
war	0.793***	0.202*	0.175	0.340**	-0.251	-1.320***	-0.360	0.239
	(6.39)	(2.58)	(1.98)	(2.98)	(-1.27)	(-5.12)	(-1.31)	(0.48)
year	0.015***	-0.003	-0.000	-0.003	-0.000	-0.032***	0.014^{*}	0.055**
-	(6.05)	(-1.80)	(-0.09)	(-1.15)	(-0.11)	(-6.13)	(2.65)	(2.86)

Source: The log of "negative" losses is replaces by the log of the minimum loss in the data)

K MANOVA test

Table 8: SITC18 Classification

Other foodstuff and live animals	Chemical products	Other
Cotton threads and fabrics	Other industrial products	Oils
Crude materials, inedible, except com	Other threads and fabrics	Wool threads and fabrics
Leather, wood and paper products	Drinks and tobacco	Plantation foodstuff
Silk threads and fabrics		

Table 9: Country Classification

Italy	United Kingdom
Spain	Holland (including Belgium and Habsburg Monarchy)
Germany (including Switzerland)	Ottoman Empire
Spain (including Portugal)	United States
Baltic, Scandinavia and Russia	

Table 10: Multivariate Analisys of Variance - by SITC

	Exports 1	Exports 0	Imports 1	Imports 0	X I 1	X I 0
peace war	0	0	0	0	0	0
seven peace1764 1777	.01	.01	.03	.02	.01	.01
peace1764 1777 indep	.16	.02	.45	.22	.29	.35
rev block	.06	.03	.01	0	.03	.05
peace1816 1840 block	.86	.52	.69	.09	.91	.37
peace1749 1755 peace1764 1777	.35	.27	.77	.39	.74	.29
peace1764 1777 peace1784 1792	.66	.11	.56	.16	.64	.1

Table 11: Multivariate Analisys of Variance - by geography

	Exports 1	Exports 0	Imports 1	Imports 0	X I 1	X I O
peace war	0	0	0	0	0	0
seven peace1764 1777	0	0	0	0	0	0
peace1764 1777 indep	0	0	0	0	0	0
rev block	.02	.02	.02	.01	.03	.01
peace1816 1840 block	.07	.09	.12	.21	.08	.12
peace1749 1755 peace1764 1777	.01	.01	.01	.01	.12	.12
peace1764 1777 peace1784 1792	0	0	0	0	0	0
peace1784 1792 peace1816 1840	.53	.73	.55	.76	.73	.75

Table 12: Multivariate Analisys of Variance - by aggregate SITC

	Exports 1	Exports 0	Imports 1	Imports 0	X I 1	X I O
peace war	0	0	0	0	0	.03
seven peace1764 1777	0	.01	0	.01	0	.01
peace1764 1777 indep	.14	.15	.04	.04	.13	.03
rev block	0	0	0	0	.01	.02
peace1816 1840 block	.15	.07	.02	.01	.03	.03
peace1749 1755 peace1764 1777	0	.01	.01	0	.05	.05
peace1764 1777 peace1784 1792	0	0	.01	.02	.01	0
peace1784 1792 peace1816 1840	.65	.12	.44	.02	.44	.08

Figure 17: All War and Peace period

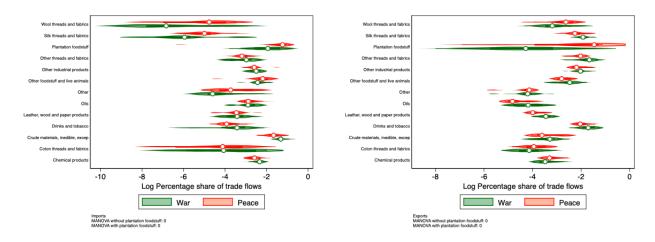


Figure 18: American Independence War and Peace 1764-1777

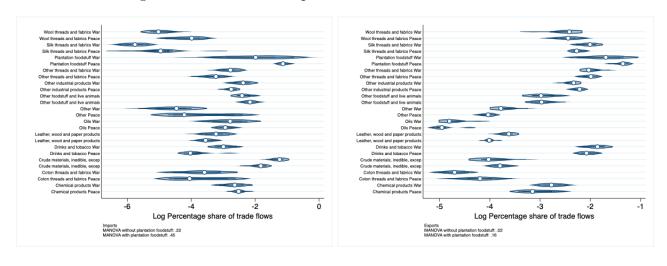


Figure 19: Peace 1816-1840 and Continental Blockade

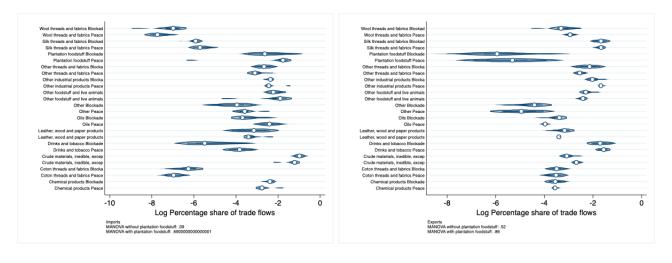


Figure 20: Revolutionary War and Continental Blockade

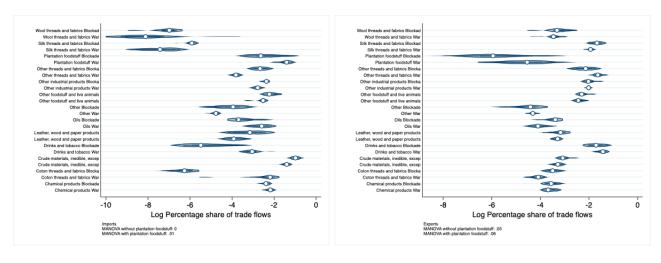


Figure 21: Seven Years War and Peace 1816-1821

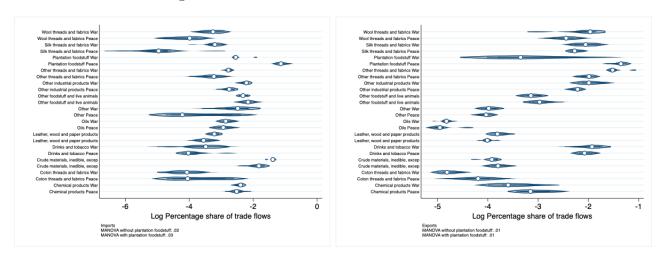


Figure 22: Peace 1749-1755 and Peace 1764-1777

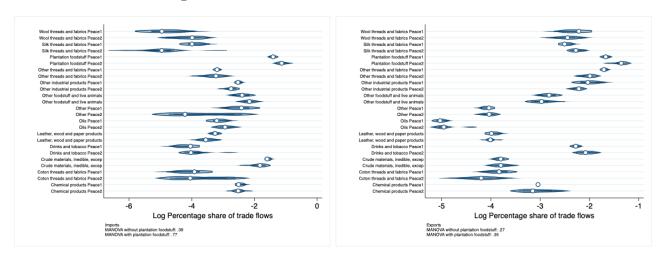


Figure 23: Peace 1764-1777 and Peace 1784-1792

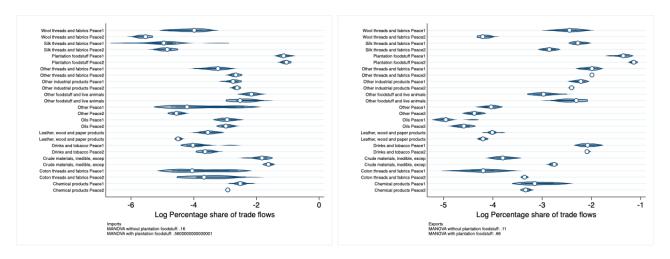


Figure 24: All War and Peace period

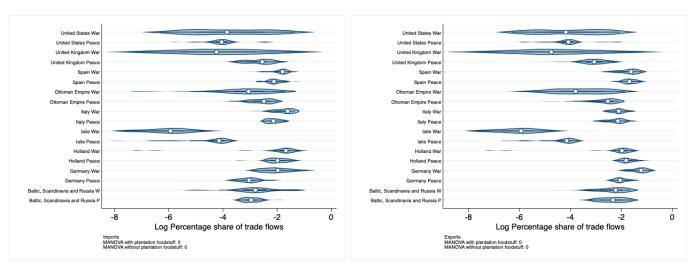


Figure 25: American Independence War and Peace 1764-1777

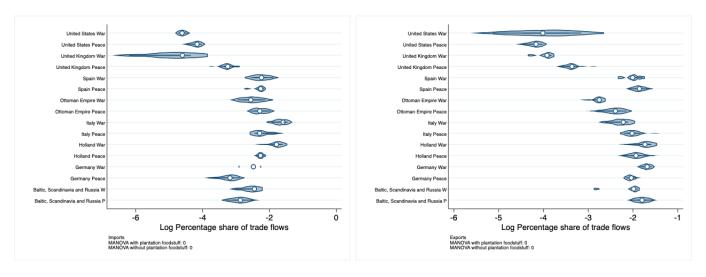


Figure 26: Peace 1816-1840 and Continental Blockade

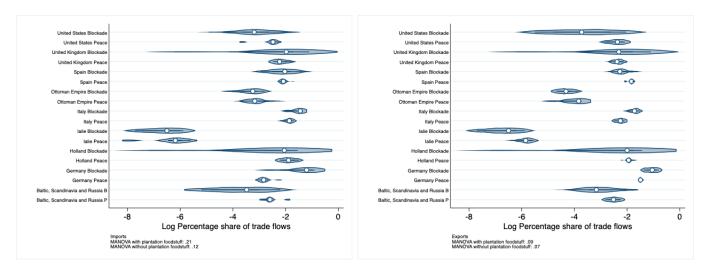


Figure 27: Revolutionary War and Continental Blockade

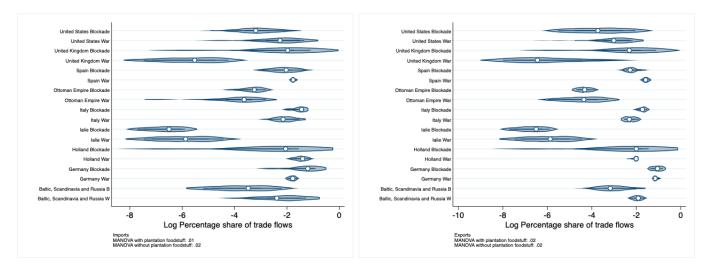


Figure 28: Seven Years War and Peace 1816-1821

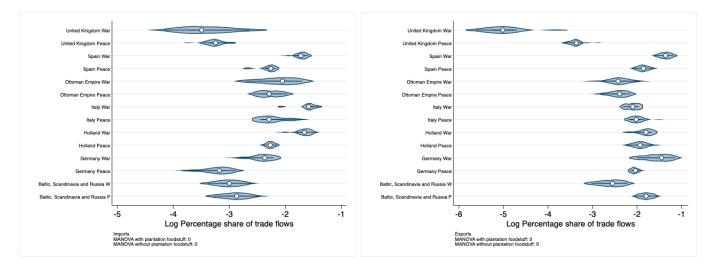


Figure 29: Peace 1749-1755 and Peace 1764-1777

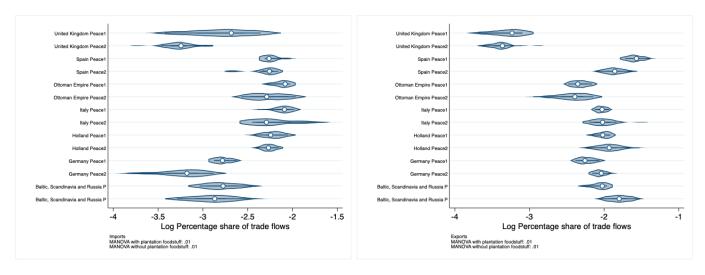


Figure 30: Peace 1764-1777 and Peace 1784-1792

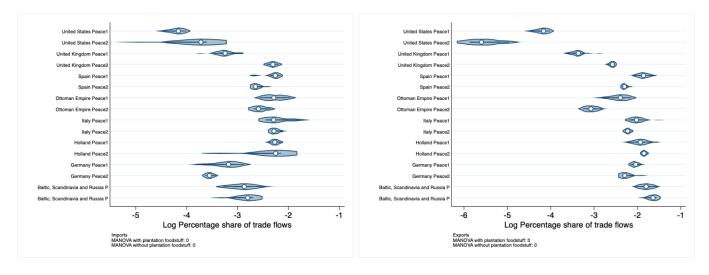


Figure 31: Peace 1784-1792 and Peace 1816-1821

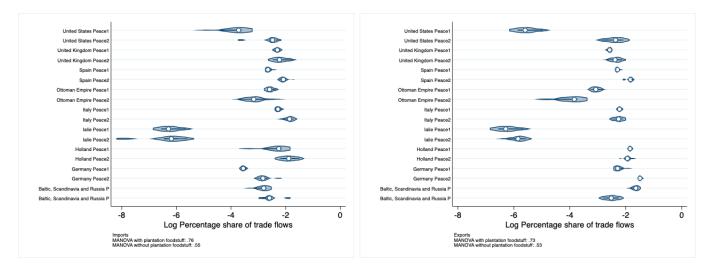


Figure 32: All War and Peace period

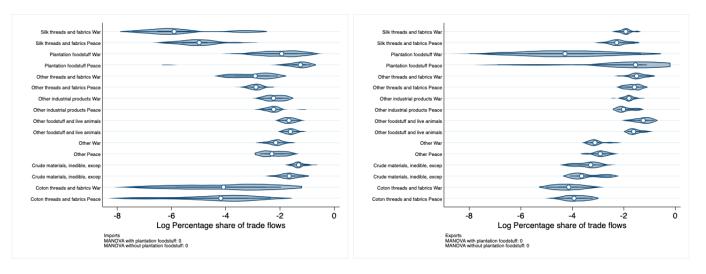


Figure 33: American Independence War and Peace 1764-1777

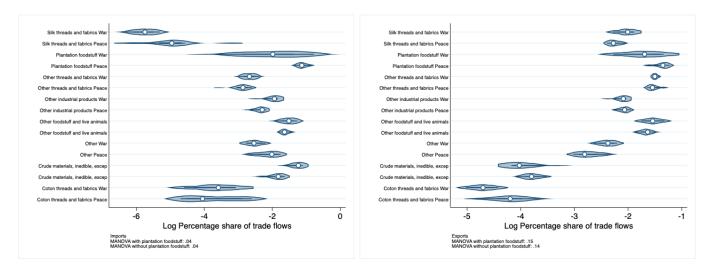


Figure 34: Peace 1816-1840 and Continental Blockade

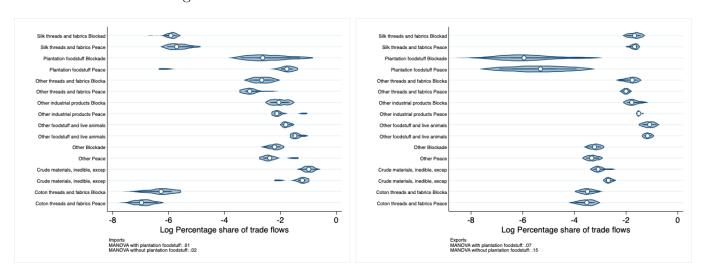


Figure 35: Revolutionary War and Continental Blockade

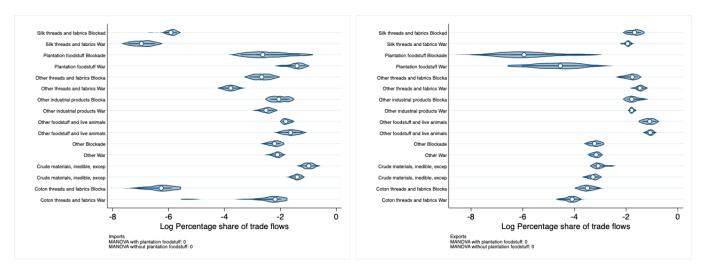


Figure 36: Seven Years War and Peace 1816-1821

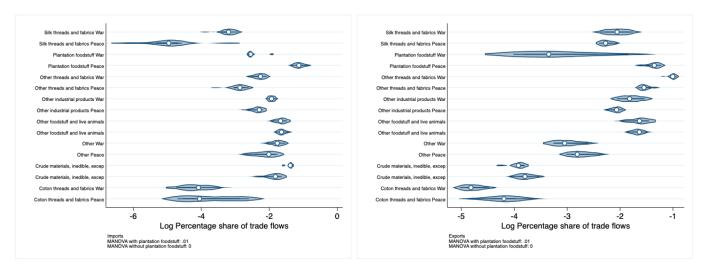


Figure 37: Peace 1749-1755 and Peace 1764-1777

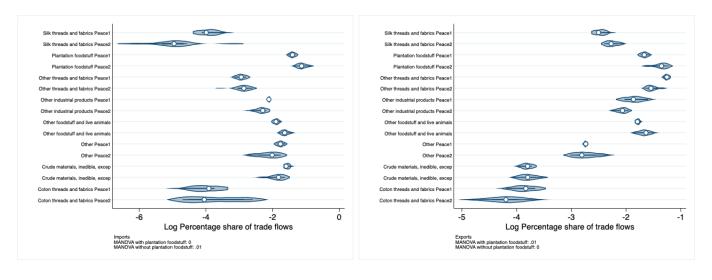


Figure 38: Peace 1764-1777 and Peace 1784-1792

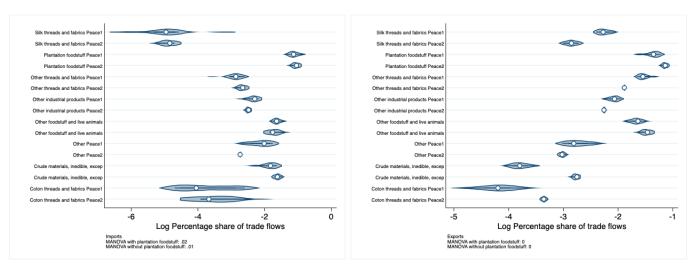
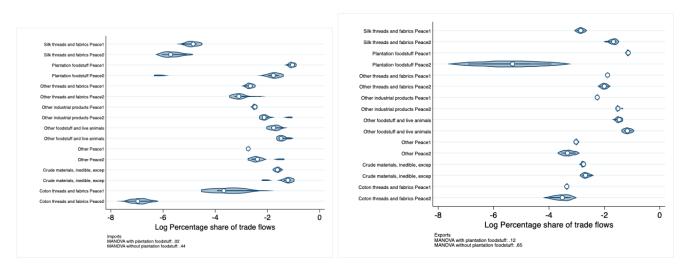


Figure 39: Peace 1784-1792 and Peace 1816-1821



L Data and sources

We use data from the TOFLIT18 project (see here). They come from the archives of the French Bureau de la Balance du Commerce and, subsequentely, 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 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 (Charles and Daudin, 2011)¹³. 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 the "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 properly started again in 1797, so that we are missing information on 1793-1796.

The data which survived come from different sources. The two most exhaustive ones are the *Objet Général* and the *Résumé*, which contain trade by product and by partner. The former is available for the years between 1754 and 1780 and between 1782 and 1788. There are some missing years, especially in the the period between 1761 and 1767, however starting from 1771 it also contains information on quantities and/or unit prices. The latter is available between 1787 and 1789 and between 1797 and 1821. It does not include quantities, only values, and the classification of goods it uses is less precise than the one from the *Objet Général*. Lesser complete sources are Local sources and the *Tableau Général*. Local data are available from 1716 to 1780 and in 1789, which allows for partial reconstruction of total trade. The *Tableau Général* exists in the French archives that provides French bilateral trade, though not broken down by product (Romano (1957)).

All 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 (de Wailly, 1857). 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 (Hoffman et al. (2000)). The French *franc*

¹³Charles and Daudin (2011), in their paper, provide the complete history of the Bureau.

contained 4.5 grams of fine silver. We convert the trade flows in fine silver; obviously, this does not solve the inflation issue, but we argue that inflation in terms of silver was relatively limited during that period.

Citation here? - GD Yes, we need to have a deep long conversation about inflation (including how it changes the loss function. Stull mulling this one.)

M Blockade

There were essentially two possible types of blockades (Corbett, 1911); the open and the closed blockade. The former consisted of keeping the ships at port, but ready to sail, as soon as the enemy fleet left its harbour. This technique was much less straining for men and ships, but less efficient when it came to blockading. On the other hand, the closed blockade consisted of keeping the rival fleet blocked in its own port, impeding it from exiting. This was much more of an efficient technique, however, the maintenance of both ships and men at sea for such a long time was a substantial issue. By the end of eighteenth century, the British had implemented a very efficient system of resupply, in which supply ships delivered victuals to the fleet at sea, thus allowing it not to return at port regularly for supplies. Also, they were being very careful to provide a balanced diet against scurvy, which passed from being a major issue for sails-men, to accounting for only 2 per cent of British naval patients between 1795 and 1800 (Rodger, 2005). On top of this, British had started to coat their ships with copper, to fight the issue of barnacles, oysters and the shipworm, which were seriously hindering the speed and the security of their vessels. This dramatically reduced the possibility of avoid the blockade and allowed British to impede unwanted trade more efficiently. One would think that the number of ships captured declined as not many ships tried to run the blockade, but that is not confirmed by data on prizes Benjamin (2009).

N Historical summary and classification of country grouping

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 classify the belligerent status (compared to France) of the country grouping at stake. As a general rule, we 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 saw an end in 1738, with the recognition of August III as king of Poland, as the Habsburgs had wished. In the country classification we used, the ally countries were *Espagne* and the foe was *Empereur* and 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 equilibrium between France and British colonies on the North American mainland had prevailed. That was broken as a consequence of an uneven population growth (Findlay and O'rourke, 2009). 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 (Riley, 1986). French allies in this war were Allemagne¹⁴, 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 Britain¹⁵. 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 ¹⁶ 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

¹⁴As mentioned in section ??, *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.

¹⁵The 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 (Findlay and O'rourke, 2009). This prediction, as it turned out, was prescient.

¹⁶France had been investing in its Navy following the preceding defeat (Findlay and O'rourke, 2009).

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 (O'Rourke, 2006). 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 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. États Unis was always neutral throughout the war, except for the un-declared war between 1798 and 1800 and it co-belligerance against the United Kingdom from 1812 to 1814. We classify them as "Allies" during this period of co-belligerence. 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 1813.¹⁷ *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 3 sums up the data by showing the number of French allies, foes and neutral for each war and year of interest.

N.1 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 Russia¹⁸ (Charles and Daudin, 2018).

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...

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

¹⁷Obviously, we cannot proceed this way for the computation of naval supremacy, see *infra*.

 $^{^{18}}$ 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

annexed by *Hollande*.

Allemagne encompasses mainly Western Germany, including Alsace, Lorraine during the Ancien $R\'{e}gime$.

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.

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N	fotes	
	to be re-written at some point	1
	that reducing trade is difficult, requires the use of multiple war measures and works through imposing structural changes on the enemy's trade structure, not simply by reducing its trade	1
	difficult (loss function and cost/benefit analysis) 3. It works through imposing long-term structural change. 4. What policies are good for that?	2 2
	1) Renewed interest in trade wars («Trade wars are good, and easy to win » Trump 2018)— The eighteenth century knows something about trade wars (under a different form) Did Britain succeed? At what cost? How? This is a single event, so do not expect causality to be clearly proven – But these data have never been put together before, and they provide	
	insight 2) Why do we care? – Important to understand the effect of wars in general – Important to understand the globalization/deglobalization cycle from 1490s to 1820s – Important to understand (and contrast) the geopolitical history of the 18th and 19th century – Trade wars coming a gain at the forefront	
	3) Our hypothesis: – It was a difficult and costly endeavor – It succeeded because the French cooperated through the Continental system (including the fight against neutral shipping) – The key factor was not to reduce the level of trade, but to force its structural	
	change	2 3
	(2020). Possibly very relevant for us: Feldman et al. (2020)	3 4
	Some literature of trade wars, not just wars	4 9 9
	Chronology of values or of number of prizes? could you clarify a bit what is added by Bejamanin to hill source?	9
	This footnote should be an annotation in the graph	9

This graphs are not readable enough. We need to add axis ticks and have axis labels in	
interval of ten.	10
Maybe put in the appendix and mention? Let's see	10
This graph should be redone omitting the peak in danish prizes for readability	12
I think we should keep number of protagonist and colonial empire evolution, the rest goes	
in the appendix.	13
More generally, for each of this subsections make a brief summary and re-write in a more	
consequential way. Also, explain graphs and dont comment them, since most will be in	
appendix	13
MANOVA by geography	14
We need a better point here	15
Talk here about the regressions	15
By intercontinental trade it's meant trade with the Americas and total trade is trade with	
the America plus the rest? – GD is it clearer?	15
I dont get how you worked out these last two numbers – GD is it clearer?	15
I think we can delete this footnote, everything should be explained extensively in the section	
on privateers – GD done	16
I think it is probably worthwhile keeping only the ration graph and eventually the other	
one in the appendix – GD no objection. We are nout sure what we will do anyway	16
Citation here? – GD Yes, we need to have a deep long conversation about inflation (including	
how it changes the loss function. Stull mulling this one.)	48