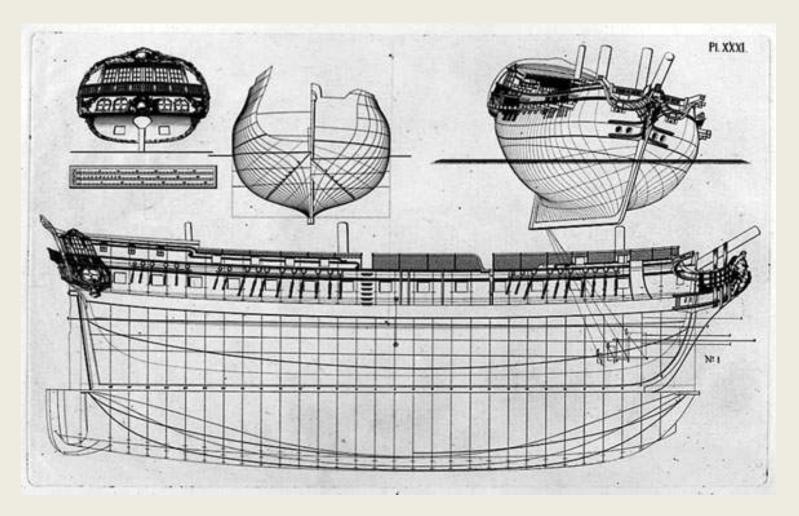
Baltic Imports for Shipbuilding in Spain

Nathan Gallagher | University of Groningen



Introduction

- Shipbuilding was important for Spain's national security and international trade.
- Deforestation an early concern
- Efforts to protect Spain's forests
- Stricter laws in the 18th century
- How did this affect Spain's forest usage?



Memorias das Armadas

Main Research Question

 How much timber did Spain import for shipbuilding during the early modern period, and what can this tell us about Spanish forestry?



Civitates Orbis Terrarum



SOUNDTOLL REGISTERS ONLINE



ABOUT THE PROJECT

RESEARCH

FORUM

LINKS

NEWS

CONTACT

Methodology

- Sound Toll Registers Online (STRO)
 - Coded database to determine which shipments were going to Spain, and which were timber
 - Identify Spain's major interests
 - Estimate volume of imports
 - Identify trends

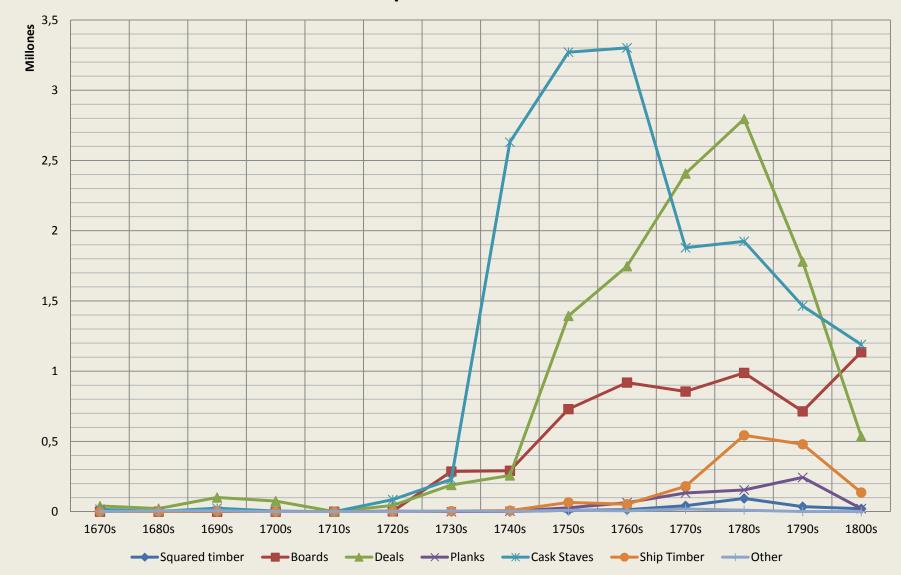
Database Coding

 Products were given unique codes and converted to volume based on typical dimensions for each product.

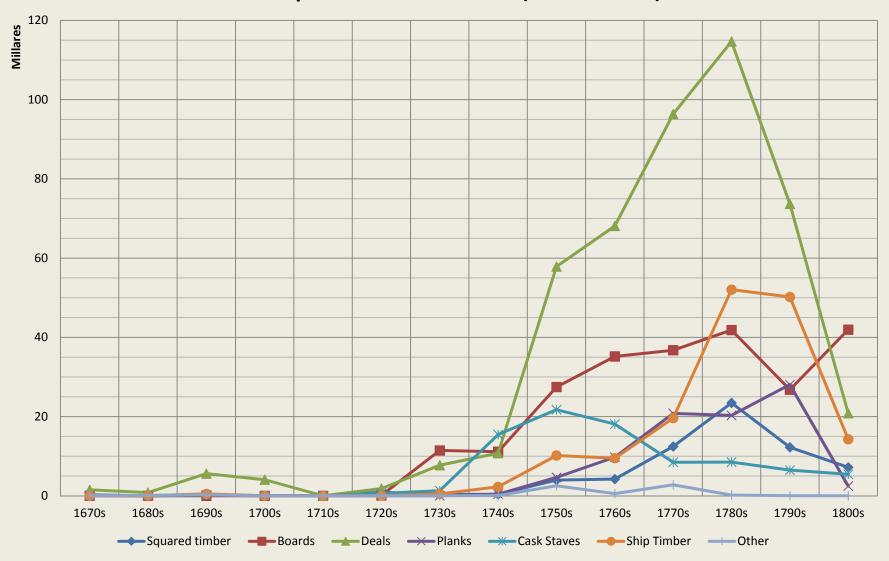
Balks	201	2
Blocks	112	1
Boards, specified	207	2
Boards, unspecified or ordinary	230	2
Boards, reduced	231	2
Boat hooks	114	1
Compass timber	101	1
Deals, ordinary, unspecified or 6 allen	202	2
Deals, Prussian	203	2
Deals, Swedish	210	2
Deals, specified lengths	215	2
Deals, Norse	211	2
Deals, Reduced	220	2
Firewood	401	4
Handspikes	102	1
Knees	103	1
Laths	302	3
Ledges	104	1
Masts	105	1
Masts, boat	106	1
Oars	107	1
Other ship timber	150	1

Planks	205	2
Planks, thick	206	2
Planks, ship's	108	1
Pumps and pump wood	113	1
Rafters	311	3
Rods	309	3
Spars	109	1
Spars, small	110	1
Split wood	310	3
Staves, unspecified	303	3
Clapboards	304	3
Staves, hogshead	308	3
Staves, pipe	305	3
Treenails, ships	111	1
Unprocessed or semi-processed timber	306	3
Quartered timber	208	2
Wainscot	307	3
Level 3 timber unknown	350	3
Squared timber	240	2
Wales	115	1
French wood	340	3
Keels	120	1
Treenails	250	2

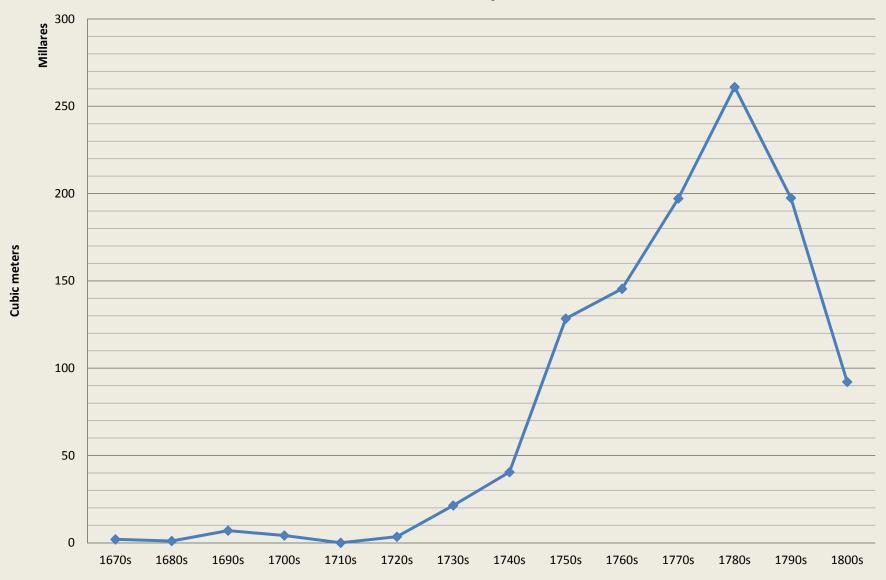
Pieces of Timber to Spain via Danish Sound 1670-1806



Timber Volume to Spain via Danish Sound (cubic meters) 1670 - 1806



Estimated volume of timber to Spain via Danish Sound

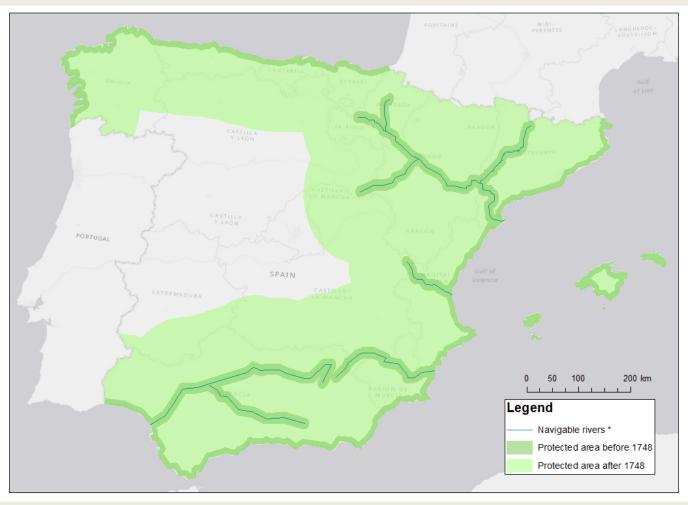


Putting the pieces together...

- STR shows increase of imports around 1750
 - Coincides with ordenanzas of 1748
- Spain 2nd largest Navy by 1780s
 - John Wing: Effective forest management
- Rafael Torres Sánchez: 1748 ordenanzas counterproductive
- Initial investigation of Spanish documents:
 - Import rates of Navy seem to remain low
 - Baltic timber was expensive compared to local timber

Ordenanzas of 1748

Approximate forest area protected for Spanish Navy



^{* &}quot;Navigable" rivers selected after John Wing. "Spanish Forest Reconnaissance." 368.

Hypothesis



José Patiño

The Spanish Navy
 successfully protected
 forest resources to supply
 their own needs, but forced
 private builders to seek
 timber outside of Spain.

Strategy

- Archivo General de Simancas,
 Tribunal Mayor de Cuentas (TMC)
 - Contains similar info to STR
 - Potential to tabulate and cross-reference
 - "Completeness" currently unknown
 - Collected from 1730-79
- Small dataset for Magdalena case study will guide future strategy

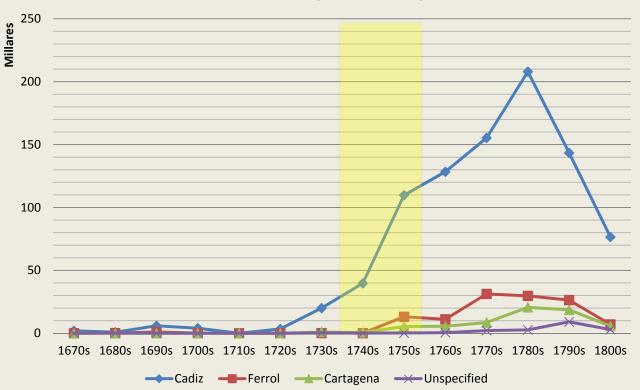


Archivo General de Simancas

Strategy

- Focus on Cadiz
- Priority 1740s-50s

Estimated volume of timber to Spanish naval jurisdictions via Danish Sound (cubic meters)









Thank you

