

# Deaths and Disappearances in the Pinochet Regime: A New Dataset\*

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## Abstract

This article presents a georeferenced dataset on human rights abuses in the Pinochet regime (1973-1990). Our dataset is based on the Chilean Truth Commission and Reconciliation Report and includes 57 variables on 2,398 uniquely-identified victims. We manually coded all information available in the two volumes of the Report and added geographical coordinates to the atrocities that could be identified. The data describe the initially high-level then steep decline of these violations, the extent to which victims were targeted, and the spatial variation of state repression. We also discuss our coding methodology and introduce an accompanying R package named *pinochet* that contains the data files and codebook. Lastly, we conclude with suggestions for potential uses of our dataset and new avenues of research on authoritarianism.

**Keywords:** authoritarian regimes, Chile, georeferenced event data, Pinochet, truth commission

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# 1 Introduction

On 11 September 1973, General Augusto Pinochet led a coup against Chile's socialist President Salvador Allende. The coup marked the beginning of a seventeen-year military dictatorship which combined rapid economic liberalisation with large-scale political repression (Meadowcroft and Ruger 2014; Valdés 1995). In 1991, after Chile's transition to democracy, then-President Patricio Aylwin convened a commission to investigate human rights abuses in the Pinochet regime. The Report of the National Commission on Truth and Reconciliation (1991), also known as the Rettig Report<sup>1</sup>, recorded over 2,000 cases of murders and disappearances from 1973 to 1990. The Commission directly confronted the abuses of the past and portrayed a careful reconstruction of state repression during the military government. Most importantly, the Report contributed to the erosion of authoritarianism in Chile, as it fostered a series of criminal investigations that culminated with the indictment of General Pinochet in 2000 (Brahm 2007, 26).

Although the Report is a valuable resource to scholars, quantitative researchers cannot readily use the rich information it contains. In this paper, we present a manually-coded dataset with all information from the Truth Commission Report plus new variables we collected to complement the original data. We transcribed every personal detail from the 903 pages of the English translation of the Report, assigned a unique identification number to each victim, then georeferenced the location of the human rights abuses. We matched all cases that had spatial information available.

Apart from the geographical location of the incidents, our dataset includes variables on: 1) the sociological characteristics of the victim; 2) their affiliation (where known); 3) the type of violence that took place during that particular event; 4) whether the victim was interrogated, tortured or in some other way mistreated (if known); 5) who were the perpetrators of the violence. If the Report does not have a particular information, we coded it as missing. As each individual receives their own id number, new information can be added to the dataset as archival work progresses. In the following sections, we describe our dataset, show summary statistics for selected variables, and suggest how our data can help answer future research questions.

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<sup>1</sup>Former Chilean ambassador Raúl Rettig chaired the Chilean National Commission for Truth and Reconciliation.

## 2 Historical Background

## 3 The Dataset

Our dataset comprises 2,398 observations and 57 variables. Each observation corresponds to a victim of the Pinochet regime and every individual has a unique id number. There are several variables describing the personal information of the victims, such as age, gender, nationality, occupation, and political affiliation if available. The data also feature geographical coordinates for a number of the incidents, as well as information about methods of torture and causes of death. Figure 01 shows an example entry from our dataset.

Users can download the data as an Excel spreadsheet (.xlsx) or as a comma-separated values text file (.csv). We have also created an R package called `pinochet` which includes the dataset in both formats plus the data codebook. The files follow the principles of “tidy data”, where each column represents one variable and each row is one case (Wickham 2014). The `pinochet` package is available for download on the Comprehensive R Archive Network (CRAN) and at <http://github.com/danilofreire/pinochet>. To make the data accessible, our GitHub repository has detailed installation instructions for users new to R.

### 3.1 Types of Violence

The Report distinguishes between different types of violence carried out by the Pinochet regime. The first type is *deaths*. These are cases where the Commission signals a definite and known death of the victim. Take the case of Benito Heriberto Torres Torres, one of the first victims of the Pinochet regime (id number 2). Our dataset shows that Mr Torres was male, 57 years-old, and that he worked as a plumber. On the 12 September 1973, just one day after the military coup, Mr Torres was torture on the way to the 26th police station in Santiago. The records indicate he was executed and that his body was later found in Las Barrancas, Santiago. The dataset also shows that we obtained this information from pages 159-160 of the Truth Commission Report.

The second type of violence recorded in the dataset is *disappearances*. These are cases where government agents are presumed to have killed and disposed of the body of the victims. One such example is that of the Brazilian engineer Tulio Roberto Quintiliano Cardozo (id number 5). Mr Cardozo was a member of the Communist party and troops took him to the Military Academy for

interrogation also on the 12 September 1973. He was never seen again and is presumed dead.

The third category is *disappearance, information of death*. As the name implies, these observations refer to cases the Commission confirms the individual died after being missing. The formal definition for this category is the following: “the victims are dead; they died at the hands of the government agents, or persons in their service; and these or other agents disposed of the victims’ mortal remains by throwing them into a river or a sea, by covertly burying them, or by disposing of them in some other secret fashion” (National Commission on Truth and Reconciliation 1991, 44). The assassination of Humberto de las Nieves Fuentes Rodriguez is an example (id number 854). He was taken in custody to the Colina air base, then loaded onto a helicopter with other political prisoners. According to the Report, government agents drugged him, beat him with a metal bar, opened his stomach with a knife before throwing the former Communist alderman from a helicopter. While his body has not been found, there is enough information about the case to classify his death as a severe human rights violation.

The last group is that of *unresolved* cases. These are defined as those where insufficient information or evidence is available. Our dataset counts 93 unresolved cases, many with georeferenced information about possible torture sites<sup>2</sup>. However, it is very likely that the people who disappeared were, in fact, killed. Based on the report and our methodology, we can only determine that 65% of all of the cases led to an assassination. Forty percent of the documented cases are disappearances.

Although the Report provides a comprehensive list of the regime victims, the Chilean Truth Commission itself acknowledges that the data are incomplete. The Commission had only nine months to write the Report and it had no legal power to oblige citizens to cooperate. Therefore, we expect that some cases have not been recorded. But this problem is not unique to the Pinochet regime. Selection bias is a common feature in events data, even more so in datasets about armed conflict or government repression (Ball and Price 2019; Chapman and Ball 2001). As the cases might not be a representative sample of the population of victims, we suggest scholars to carefully consider issues of model specification.

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<sup>2</sup>Two cases are ambiguously described in the Truth and Commission Report, so we treat them as missing data. The victims are Ruiter Enrique Correa Arce, a news stand owner accused of facilitating message exchanges between party leaders (id number 843), and Alonso Fernando Gahona Chavez, a communist leader of municipal workers of La Cisterna (id number 847).

## 3.2 Geocoding

We have georeferenced all observations for which the relevant data was available. Based on data from the Truth Commission, we first created a variable indicating where the victim was allegedly tortured or murder. We assigned a number to the six locations that most frequently appear in the report, namely: 1) home; 2) work; 3) university; 4) in custody; 5) in public; and 6) in hospital. We assigned “unknown” if the location could not be identified. Then we added latitude and longitude coordinates to each location where the individuals were seen.

Since the Truth Commission Report includes spatial data in string format – e.g., intersection of *Calle Grecia* with *Avenida Rosa* – we mapped the locations using decimal degrees to increase precision. The mapping process is straightforward. We used three different websites to increase the coverage of our maps and include the largest possible number of observations. The first website we employed is Google Maps (<http://maps.google.co.uk>), the world’s most widely used map software. We queried Google Maps’ application programming interface (API) to search for street intersections and other precise addresses we retrieved from the Truth Commission Report. Additionally, we used the API to locate police stations and government buildings still in use.

Next, we used Wikimapia (<https://wikimapia.org/>), a open-content collaborative platform that allows users to mark locations worldwide. As of March 2019, Wikimapia contains about 30 million places in its database<sup>3</sup>. We benefited from this crowdsourced information to identify shanty-towns, military bases, and small neighbourhoods that could be easily found in general-purpose maps.

Our third source of geographic coordinates is Latitude (<http://latitude.to>). We used Latitude to source inexact coordinates, such as coordinates for cities and towns. If no precise information was available, our measure of latitude and longitude correspond to those of the control point of each city. We also used the Latitude.to website to convert non-decimal coordinates to decimal ones. For instance, some addresses in Wikimapia are in degrees, minutes, and seconds (DMS) format, and to keep the dataset comparable all coordinates follow the same standard.

## 3.3 Variables and Patterns

As mentioned previously, our dataset includes 57 variables and covers the seventeen years of the Pinochet Presidency (1973–1990). Figure ?? shows the frequency of government-perpetrated incidents

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<sup>3</sup>Wikimapia statistics for March 2019 are available at [https://wikimapia.org/stats/action\\_stats/?fstat=2&period=3&year=2019&month=3](https://wikimapia.org/stats/action_stats/?fstat=2&period=3&year=2019&month=3).

per month from 1973 to 1990. We see that the vast majority of the acts of violence happened in the first two months after the military coup. The high incidence of human rights violations in the beginning of the Pinochet era reflects the activity of the “Caravan of Death”, a group of paramilitaries established in October 1973 to torture and kill dissidents (Davis and Ward 1990, 459; Verdugo 2001).

In September 1973 alone, the government committed 633 acts of violence against civilians, of which 406 the Commission signals as “definite and known deaths”. The violations continued in October, with 504 incidences and 317 certified deaths. The numbers decline to about 10% of those levels in November and December, and then recede further in 1974.

In absolute numbers, the Chilean dictatorship was not as violent as its Argentinian counterpart<sup>4</sup>, but the figures are high when compared to other South American countries. For example, the Brazilian military regime made 434 victims from 1964 to 1985; Paraguay had 424 victims of human rights abuse from 1954 to 1989; and Uruguay reported about 300 incidences from 1973 to 1985 (El País 2014; Folha de São Paulo 2016). The timing of repression also varies. Despite eventual periods of higher intensity, violence in authoritarian Brazil and Paraguay stretched somewhat evenly during the regime (Agência Brasil 2014; El País 2014). This contrasts with the Chilean case, whose repression was concentrated in the early years of the regime.

We can also explore how the government employed violence across space. We see that assassinations are concentrated around Santiago and neighbouring cities. The results are expected. Santiago has been Chile’s most densely populated city since the colonial times and in 1975 the city was home to about 30% of the country’s population (United Nations 1976). Disappearances follow a similar pattern. Although there are cases in the northern parts of the country, the military government targeted more victims in Santiago and neighbouring areas.

We can further disaggregate the analysis and visualise how the regime persecuted particular groups. Students and members of left-wing parties are two categories of special interest. On 18 September 1973, only one week after the coup, Pinochet and his followers rounded up thousands of students and activists in Chile’s National Stadium. Military forces tortured and murdered hundreds of prisoners over the course of a few days. An emblematic victim was Víctor Lidio Jara Martínez, a

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<sup>4</sup>The Argentinian government disputes the figure of 30,000 deaths and disappearances human rights organisations often suggest (BBC Brazil 2016; El País 2016). Ceferino Reato, a writer and journalist, indicates that there were 7,158 incidences during the regime, including 6,415 cases of disappearances and 743 victims of summary executions (Clarín 2016). However, General Jorge Rafael Videla, who ruled Argentina from 1976 to 1981, seems to agree with those figures. He once remarked that killing “about 7 or 8 thousand people” was “the price of winning the war against the subversives” (Clarín 2012).

university teacher and song composer. According to witnesses, Mr Jara had his hand crushed and his wrists broken, and he was later shot 44 times with a machine gun. Mr Jara's body was left in the front of the stadium as a warning for other political prisoners (McSherry 2015, 56). The government again tortured and killed students and activists in its campaign against the Revolutionary Left Movement (*Movimiento de Izquierda Revolucionaria*, MIR). The MIR originated in student unions and in the late 1970s the movement promoted a series of attacks against government personnel and official buildings. Government forces strongly retaliated and the group resorted to terrorist tactics to confront the regime (Schlotterbeck 2018).

## 4 Conclusion: New Avenues for Research

In this paper, we introduce a dataset with rich information about more than 2,000 victims of the Pinochet regime. Our data come from two sources. First, we manually coded all information available in the Report of the Chilean National Commission on Truth and Reconciliation (1991). Second, we added the geographical locations and the specific dates of the human rights abuses whenever we could retrieve them. The graphs and maps included in this article provide some preliminary results about the temporal and spatial variation of state violence during Chile's last military government.

We believe our data open new topics of research. For instance, Lupu and Peisakhin (2017), Rozenas et al. (2017) and Zhukov and Talibova (2018) highlight that state repression has enduring effects on political preferences and social attitudes. Researchers can test whether the Pinochet regime has caused similar attitudinal changes in direct or indirect victims. Moreover, sociologists and criminologists can analyse the relationship between human rights abuses and post-regime levels of interpersonal violence. Recent studies show that democracies which arise after military regimes have higher homicide rates (Frantz 2018; Karstedt and LaFree 2006). Our data can show if areas with significant levels of military repression are more violent today.

Researchers can also examine how political coalitions affect the use of lethal violence in authoritarian regimes. Although the topic has received increasing attention (e.g., Fjelde 2010; Gandhi and Przeworski 2007; Rivera 2017), the internal dynamics of autocratic governments remains understudied. The main reason is a lack of fine-grained information (Ferrara 2014, 16). By linking human right abuses to changes in Pinochet's coalition, scholars can explore whether civilian or bureaucratic support lead to higher incidence of state violence. The individual data presented here

can be combined with government records at any level of aggregation.

Qualitative scholars will find the personal details of the victims to be particularly useful. Historians willing to reconstruct the biographies of specific individuals are able to access pre-compiled information in a single digital file. Others might be interested in using our data as a starting point for network analysis or to collect oral testimony from survivors and acquaintances. In that regard, the dataset can accommodate future qualitative information. As we include a unique identification number to each victim, it is easy to update the personal record of any individual with new data from public archives or personal correspondence.

Lastly, scholars can investigate the connections between international legitimacy and domestic politics in repressive regimes. This is a promising area of research as the Chilean government and American intelligence services continue to declassify documents from the Pinochet era. One relevant question is whether pressure from foreign governments and organisations had any influence over the levels of human rights abuses in Chile. We hope our dataset is useful for scholars interested in these and other questions, and that the information it contains elicits hypotheses not only about the Pinochet period, but about authoritarian governments more generally.



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