# Identifying the main actors and their positions on international forest policy issues in Argentina

Identificación de los principales actores y sus posiciones sobre asuntos internacionales de política forestal en Argentina

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#### SUMMARY

Since the Earth Summit in Rio in 1992, forest management and conservation have become important issues in international forest-related politics and policies. As a result, different international initiatives have dealt with the subject directly or indirectly, building up a fragmented international forest regime complex made of international laws and agreements about forests. The diverse elements of this regime complex are differently made relevant by various actors in different countries. The aim of this study was to identify the most relevant forest issue elements in Argentina as well as the main involved actors and their positions towards these elements as a result of their interests. To identify the issues, content analysis of documents was employed on public sources (newspapers, websites) as well as expert sources (personal interviews and professional journals) from 2008 - 2012. The most relevant actors were identified and categorized. The positions of the different actors were obtained analyzing the different sources. The forest issue elements found to be relevant in Argentina are: climate change and forests, forest biodiversity, regional forest-related policy initiatives, competing forest certification schemes, desertification, bilateral forest related disputes and forest-related support by international organizations. The various actors identified showed different positions regarding a diversity of issues, being climate change and forests the most conflictive concern among actors, especially among environmental NGOs and forestry associations and the Secretariat of Environment and Sustainable Development and the Ministry of Agriculture, Livestock and Fisheries.

Key words: forest policy, international forest regime complex, relevance, implementation.

# RESUMEN

Desde la Cumbre de la Tierra, en 1992, el manejo y conservación de los bosques se han convertido en temas importantes en la política forestal internacional. Como resultado, distintas iniciativas internacionales abordaron el tema de manera directa o indirecta, conformándose un cuerpo normativo de leyes y acuerdos fragmentado sobre los bosques de alcance internacional. Los temas que conforman este régimen normativo se convierten en relevantes de distinta manera por medio de varios actores en diferentes países. El objetivo del presente trabajo fue identificar los principales temas de política forestal internacional relevantes en Argentina así como los principales actores involucrados y sus posiciones frente a los mismos como resultado de sus intereses. Para la identificación de estos temas se consultaron fuentes públicas (diarios nacionales, páginas web) así como expertas (entrevistas y publicaciones profesionales) entre el 2008 - 2012. Los actores más importantes fueron identificados y categorizados. Las posiciones de los distintos actores se obtuvieron mediante el análisis de las fuentes. Los temas de política forestal internacional identificados en la Argentina fueron: cambio climático y bosques, biodiversidad en sistemas forestales, iniciativas de políticas forestales regionales, competencia de sistemas de certificación forestal, desertificación, disputas bilaterales referentes a bosques y financiamiento de organismos internacionales en temas forestales. Los diferentes actores identificados presentaron posiciones encontradas con respecto a los temas, detectándose el cambio climático y bosques como el más conflictivo entre actores, principalmente entre ONG ambientalistas y asociaciones forestales y la Secretaría de Ambiente y Desarrollo Sustantable y el Ministerio de Agricultura, Ganadería y Pesca.

Palabras clave: política forestal, complejo de régimen forestal internacional, relevancia, implementación.

## INTRODUCTION

After the Rio Summit in 1992, a growing number of international policies and regimes addressing forests have evolved into what can be described as an international fo-

rest regime complex (IFR-C) (Humphreys 2006, Rayner *et al.* 2010, Giessen 2013). This regime complex attempts to influence domestic policies at national levels. How this influence occurs, however, is assumed to be different in each country. In order to become influential, a political is-

sue needs to be put on the agenda (Howlett and Ramesh 1995). Conflicting interests about the substance, then, make the issue visible empirically as a political conflict. In the politics surrounding the issue, a number of actors concerned will then take positions based on their interests (Krott 2005, Wibowo and Giessen 2012).

The formulation of the IFR-C has already been analyzed to a large degree (Humphreys 2006, Rayner et al. 2010, McDermott 2014); yet the implementation in specific national settings is largely unresearched with few exceptions (McDermott et al. 2010). Implementation studies are called for to research the link between IFR-C and policy changes at the domestic level (Bernstein and Cashore 2012, Wibowo and Giessen 2012). In addition, only few studies have analyzed forest policy issues in Argentina (Rosenberg 2008, Gartland 2012, Romero 2012), but no research has been done on the implementation of the IFR-C in the country, with the exception of few studies analyzing particular issues of the regime (Espach 2006, Cubbage et al. 2010). Hence, the objective of this article is to identify the most relevant international forest-related policy issues in Argentina as well as the main actors and their positions towards these issues. Due to the large North-South extension and resulting ecological variations within Argentina, special attention shall be given to potential differences between the northern and southern parts of Argentina regarding the relevant issues. Consequently, our hypothesis is that elements of the IFR-C are made relevant in Argentinean policy by specific actors formulating their related positions in public and/or expert deliberations. Hence, the different interests of the most relevant actors will determine which forest issue elements become relevant at the domestic level. In addition, ecological and political differences at subnational levels lead to further differentiations in which forest issue elements become relevant in different regions of the country.

# METHODS

Theoretical underpinnings. An international regime can be defined as a "set of implicit or explicit principles, norms, rules and procedures around which actors' expectations converge in a given area of international relations" (Krasner 1982). International forest-related negotiations continuously take place in multiple processes resulting in a body of international forest-related policy, which is referred to as an international forest regime-complex (Rayner et al. 2010, Giessen 2013, Giessen et al. 2014, McDermott 2014). This regime complex is composed by a set of elements which are directly or indirectly relevant for forests as an issue in global politics (Humphreys 1999, Giessen 2013). Thus, the IFR-C consists of different elements from a number of international regimes referred to as Forest Issue Elements (FIE). Analytically the IFR-C is a program consisting of goals, measures, assumed impacts and implementing actors (Krott 2005). Likewise each FIE consists of goals, measures, assumed impacts and implementing actors (Giessen

2013). Which and how each of these FIE are implemented or not at national level is different in each country and depends on problem structure, actors and the institutional setting (Bernstein and Cashore 2012). The relevance of the different FIE at a domestic level is influenced by the interests of the relevant domestic actors, be they state or non-state.

Interests of actors determine the actions they take, which is the reason why they constitute one of the most important factors in political processes (Krott 2005). Interests are not openly displayed based on different tactics (Krott 2005). Positions can be defined as the publically stated preferences towards specific policy or policy options. The different positions are based on the actors' interests (Wibowo and Giessen 2012).

When the various actors and their different forest-related interests are brought together, issues arise and become visible (Krott 2005). Such issues are then addressed in more or less public arenas, whereas low degree of publicity in general results in clearer articulation of positions.

Study area. Argentina has a continental area of 2,791,810 km², with a length from north to south of 3,700 km between 22° and 55° of Latitude South. This extension determines a wide climatic variation, from subtropical conditions in the north with mean annual temperatures above 20 °C to temperate conditions in the south with mean annual temperatures below 10 °C (SAyDS 2010a).

There are around 31.4 million hectares of natural forests divided in six ecological regions (SAyDS 2005). Moreover, there are 1.2 million hectares of cultivated forests, 80 % of which are located in the north—east of the country, in the Mesopotamian region (MAGyP 2013). At national level the Secretariat of Environment and Sustainable Development is responsible for natural forests, while the Ministry of Agriculture, Livestock and Fisheries is responsible for forest plantations. Argentina adopted a federal republican representative form of government. Except for national parks, which are under the jurisdiction of the national government, forests toile within the political responsibility of the provinces and are subject to provincial laws under the umbrella of national laws (Article 124 of the National Constitution 1994).

Due to climatic conditions, forests from the six ecological regions are very different, ranging from subtropical forests in the north to temperate forests in the south. The diverse conditions across these areas are assumed to lead to differences in the forest production and hence differences in actors and their interests. In order to analyze these differences two regions with completely opposite conditions were selected for analyses: the "Selva Paranaense" region, with 1.5 million hectares of natural subtropical forests in the north east of the country and the "Bosque Andino Patagonico" region with 1.9 million hectares of temperate forests in the south west (SAyDS 2005). The province of Misiones represents the "Selva Paranaense" ecoregion with only 40,000 ha of pristine forests, around 90 % of degraded

forests, between 23 – 26 % of deforestation and only 8 % of protected forests (Brown *et al.* 2006). Furthermore, this province held, until the year 2002, almost 35 % of the plantation forests in the country contributing with 29 % of the country's forest exports (Braier 2004). On the opposite side, the "Bosques Andino Patagónicos" ecoregion has 34 % of protected forests being the most conserved ecoregion in the country (Brown *et al.* 2006). This ecoregion held, until the year 2002, around 6 % of the plantation forests in the country (Braier 2004). From this ecoregion, the province of Río Negro was chosen –because of its long history in conservation having the oldest national park of the country— with the aim of comparing a highly forestry productive oriented province like Misiones with a highly conservation oriented province.

Empirical methods. Qualitative content analysis is a flexible method for analyzing text data (Neuman 2005). This method focuses on the language as a means of communicating with attention to the content of a text (Neuman 2005). It is the most appropriate method for objectively revealing the most significant text, word or symbol from a large volume of text (Neuman 2005, Sadath *et al.* 2013). This method has been widely used in political sciences to analyze documents and interviews (Neuman 2005).

In order to identify the most relevant international forest issues in Argentina, a qualitative content analysis was used in a two stage approach, distinguishing between public and expert sources in both stages. The distinction between these two types of sources lies on the degree of publicity. Public sources were defined as all material accessible to the whole population including newspapers and websites. Expert sources were defined as all material focused on a selected audience from the forest sector.

For the public sources, the first stage consisted of an open search in a broadly distributed national newspaper (La Nación) that was selected for eliciting the relevant issues. The terms "international", "forest" and "forestry" were searched with the search engine of the newspaper

between the years 2008 - 2012. For the expert sources, an open search on professional journals in the field of forestry (Argentina Forestal, Producción Forestal) was done. This first stage was done in order to detect the most relevant international forest issues in Argentina as well as the most relevant actors. The second stage, after main actors and issues were identified, included a more focused search. For public sources, websites and position papers of the different actors towards the identified issues were searched. For expert sources, interviews to people with broad knowledge of the forest sector in Argentina through personal correspondence were made (table 1). To each one of them a question was made: Which international forest policy issues were relevant in Argentina between the years 2008 – 2012? Interviews were used as an additional source to verify the data from other sources (Wibowo and Giessen 2012). The selection of the interviewees was based on their knowledge of the forest sector as well as on ease of field access.

In the analysis, forest-relevant actors were classified according to Krott (2005) into forest users (forest owners, forest workers and employees, general population), associations and parties (forestry associations, environmental NGOs) and government and administration bureaucracies.

For the North – South comparison, the two stage search was also applied in the two selected provinces. For the first stage in public sources, provincial newspapers widely distributed throughout the studied provinces were chosen (Misiones online for Misiones and Río Negro for Río Negro). For expert sources, the same professional journals used for the national level were used for both provinces but only articles of provincial relevance were selected at this level.

# **RESULTS**

After analyzing all the sources found, seven Forest Issue Elements (FIE) were identified as relevant in Argentina. These FIEs were made relevant by different actors (table 2).

**Table 1**. List of experts interviewed.

Listado de expertos entrevistados.

Expert	Affiliation	Date
Interview 1	Officer, Ministry of Agriculture, Livestock and Fishery	November 27, 2012
Interview 2	Officer, Ministry of Agriculture, Livestock and Fishery	November 21, 2012
Interview 3	Researcher at Centro Austral de Investigaciones Científicas – Consejo Nacional de Investigaciones Científicas y Técnicas	November 21, 2012
Interview 4	Technician at the National Parks Administration. Patagonian Delegation	November 23, 2012
Interview 5	Senior researcher at National Institute for Agricultural Research, Santa Cruz	November 22, 2012
Interview 6	Senior researcher at National Institute for Agricultural Research, Montecarlo, Misiones	September 19, 2012
Interview 7	Member of the Forest Engineers Association Misiones.	February 17, 2013

**Table 2.** Main actors, classified following Krott (2005), and their positions on each forest issue element relevant in Argentina. (0): no position detected; (+) position detected either in favor or against the issue.

Principales actores, clasificados según Krott (2005), y sus posiciones sobre cada elemento relevante del tema forestal en Argentina. (0): sin posición detectada; (+) posición detectada ni a favor ni en contra del tema.

Actors	CC and forests	Forest biodiversity	Regional initiatives	Certification	Desertification and forests	Bilateral disputes	Support by international organizations
Forest users							
Forest owners							
APN	0	+	0	0	0	0	+
INTA	+	+	+	+	0	0	0
Forest workers and employees							
UATRE	0	0	0	0	0	0	0
General population	0	0	0	0	0	+	0
Association and parties							
Forestry Associations							
AFoA	0	0	0	+	0	0	0
FAIMA	+	0	0	+	0	0	0
AFCP	0	0	0	+	0	+	0
Environmental NGOs							
Greenpeace	+	+	0	+	0	+	0
FVSA	+	+	0	+	0	+	0
FARN	+	+	0	0	0	0	0
Government and administration bureaucracies							
SAyDS	+	+	+	0	+	+	+
MAGyP	+	+	+	+	+	0	+
MREyC	+	0	0	0	0	0	0

Climate change and forests. Since 1992, when countries joined the United Nations Framework Convention on Climate Change (UNFCCC), climate change has been an important issue in the international forest regime (Humphreys 2006). As a result of this convention, the Kyoto Protocol was adopted in 1997 entering into force in 2005.

Argentina approved the UNFCCC and the Kyoto Protocol by national law establishing the Secretariat of Environment and Sustainable Development as the application authority (Law 24295, Decree 2213/02). In 2005 the Argentinean Carbon Fund was created with the objective of facilitating and promoting Clean Development Mechanisms (CDM) projects in Argentina. The Ministry of Agriculture, Livestock and Fisheries supports the use of fast growing plantations as very efficient carbon sinks that can contribute to fight climate change (MAGyP 2013). However, environmental NGOs argue against the use of forest plantations as CDM projects (Greenpeace 2000). And finally, a national REDD strategy is at the moment under development (Colombres 2009) and discussed by different actors (FVSA 2010a, Greenpeace 2012).

Forest biodiversity. The Convention on Biological Diversity (CBD) addresses forests directly through the expanded program of work on forest biological diversity (annex to decision VI/22), adopted in 2002 (CBD 2013).

Argentina approved the CBD by national law and established a committee to follow up the convention, developing a national strategy about biological diversity (Law 24375, Decree 1347/97). At the moment the Nagoya Protocol on access to genetic resources and the fair and equitable sharing of benefits arising from their utilization, after being translated to the languages of the main ethnic groups from the country (SAyDS 2012a), is in the process of being ratified by the government (table 1: Interview 1). However, Argentina is not a party of the Cartagena Protocol on Biosafety. Argentina ranked 12th in the export of commodities in 2002 due to the export of soybean cake and in the year 2006 was the second world producer of genetically modified organisms (ASA 2006). Therefore, most private sectors opposed the ratification of this Protocol (De las Carreras 2004).

Regional policy initiatives. After the first UNCED Rio Summit (1992), some regional initiatives towards defining and implementing sustainable forest management were initiated. Part of these initiatives which are relevant to Argentina include the Montreal Process on the definition of criteria and indicators for sustainable management of temperate forests, the Latin American and Caribbean Forestry Commission that works as a forum for Latin American countries to analyze important regional forestry issues and to exchange knowledge and expertise (FAO 2013) and the International Model Forest Network that has the goal of sustainable management of forest-based landscapes through the Model Forest approach (IMFN 2013).

Argentina has been very active in the last decade in the execution of different technical cooperation projects in terms of information systems, forest sanity and forest management as part of the activities in the Latin American and Caribbean Forestry Commission (table 1: Interview 2). In 2002 the national working group for the Montreal Process was created by the Secretariat of Environment and Sustainable Development, also involving the Ministry of Agriculture, Livestock and Fisheries, the National Institute on Agricultural Technology (INTA) and the National Park Administration. The criteria and indicators formulated under the Montreal Process were then used in the forests associated to the IMFN. There are currently six forests associated to the IMFN adding up to 6,798,000 ha (Programa Nacional de Bosques Modelo 2013).

Competing forest certification schemes. Forest management certification was introduced as a market based instrument mainly promoted by environmental NGOs which realized about the need for a tool -stronger than international conventions- to stop deforestation and promote sustainable forest management. Moreover, to stop timber illegality, legality certification schemes have lately been developed.

In January 2013 there were 305,137 ha of forests in Argentina certified by FSC (FSC 2013), mainly forest plantations with only two companies certifying the management of natural forests. In 2010 a national certification scheme was lunched, after five years of development, following international requirements in order to be a part of PEFC (Testa 2010). A forest trade network based on the Global Forest and Trade Network is currently being promoted both by environmental NGOs as well as by forestry associations to deal with illegally harvested timber, which is estimated to be around 30 % of the total volume commercialized from the country (FAIMA 2012a, FVSA 2013).

Desertification and forests. Similar to climate change and biodiversity loss, desertification was identified as an important issue at the 1992 Rio Earth Summit, and the United Nations Convention to Combat Desertification (UNCCD) was established in 1994 (UNCCD 2013).

In Argentina there are 60 million hectares suffering from erosion. The area is expanding at a rate of 650,000 hectares per year by degradation and desertification of land (SAyDS 2013) with 75 % of the land cover under some process of degradation (SAyDS 1997). In 1996, Argentina ratified the UNCCD by national law and proposed a National Action Program as well as Sub-Regional Programs (SAyDS 1997). Forest plantations are seen as a solution to stop desertification and subsidies, such as the exemption of taxes, have been granted by the Ministry of Agriculture, Livestock and Fisheries, to promote them with the intention of protecting the soil from desertification processes (MAGyP 2013).

Bilateral forest related disputes. Over the years several issues concerning forests and forest industry became impor-

tant inter-national issues between Argentina and specific neighbor countries such as Uruguay and Chile. In the last years, an important conflict between Argentina and Uruguay over the installation of a pulp mill over the margins of the Uruguay River, boundary between both countries, has developed. The conflict started with demonstrations in the Argentinean town of Gualeguaychu where the general population organized under an assembly (Asamblea Ciudadana Ambiental Gualeguaychu) claiming that the pulp mill had negative impacts on the environment and that its installation violated the Statute of the Uruguay River from 1975 (Sarlo 2010). The conflict later rose to the level of the foreign ministries of both countries1. A committee of the government of Argentina, led by the Ministry of International Affairs and Cult, then brought the issue to the International Court of Justice (table 1: Interview 3) who established that the Statute of the Uruguay River had not been violated by Uruguay and the pulp mill could operate<sup>2</sup>.

Another bilateral dispute took place between Chile and Argentina regarding the management of exotic invasive species like the beaver in the south of both countries. In 2001, both countries started working in order to make an agreement to control the invasion of the beaver from the island of Tierra del Fuego into the continent. This work was done under the umbrella of the Argentina – Chile Environment Subcommittee (table 1: Interviews 3 and 4). In 2008, an agreement to stop the invasion of the beaver and to restore areas affected by this species was signed by both. In addition under the umbrella of the Environmental Treaty between Argentina and Chile from 1991, binational plans for forest fire prevention and control were developed (table 1: Interview 4).

Support by international organizations. There are several forest-related financing initiatives associated with International Organizations. The most relevant of these initiatives identified in Argentina are the Global Environment Facility (GEF) and the World Bank through the International Bank for Reconstruction and Development. So far, there have been 28 environmental projects financed by GEF in Argentina, two of which are entirely about forests (GEF 2013).

Forest owners. Argentinean forest plantations are owned mainly by private owners (99.7 %) and only 0.3 % is owned by state organizations (FAO 2010). The natural forests are owned by the National Parks Administration (3.5 %), the different provinces (approximately 2.9 %) as well as some research and environment protection institutions as National Universities and INTA (0.1 %) and private owners (93.5 %) (SIFAP 2013).

The National Parks Administration depends on the Ministry of Tourism and has the objective to protect and conserve the different ecosystems. One of their main goals is the conservation of biodiversity and the promotion of sustainable activities (SAyDS 2010a) and hence they are involved in the national strategy for biodiversity; however they are not involved in other international forest issues and have not taken any position. INTA is an autarchic organism dependent of the Ministry of Agriculture, Livestock and Fisheries. As a national institution they are concerned about many international forest issues. They have been working on the adaptation of forests to climate change and participating in international meetings about it (Surraco 2012) as well as in the formulation of the national strategy for biodiversity (SAyDS 2010a). They participated in the Montreal Process working on indicators of sustainable forest management (table 1: Interview 5). They claim the use of criteria and indicators is a useful tool for a country to evaluate how sustainable the management of the forests at a national level is. On the other hand, they stress the use of these criteria and indicators will improve the income of the forest, benefitting the forest industry by allowing access to new markets (table 1: Interview 5). They are working on the development of a certification scheme for natural forests that guarantees legality of the products as well as sustainable management of the forests (FAIMA 2012). Their aim is to have a certification scheme more accessible for forest owners, especially for small land owners, farm workers and aborigines' communities.

Forest workers and employees are represented by the same union as all rural workers, the Argentinean Union of Rural Workers and Stowers (UATRE), their rights and benefits are then looked after by this Union. Although they represent all forest workers in the country, they have not posed any position on issues of international forest policy.

Although the general population could not be identified as actors on international forest policy issues, they played an important role in the pulp mill conflict with Uruguay (Sarlo 2010). An assembly was formed against the installation of a pulp mill in Uruguay, making big demonstrations (Sarlo 2010).

Associations and parties. At a national level there are three forest associations. The Argentinean Forest Association (AFoA), created in 1946, groups companies, forest producers, students and independent professionals of the forest sector, its industry and associated services. They are concerned about productivity of forests and the commercialization of their products. They, both FSC and PEFC, understand forest certification as a means of entering markets, such as the EU, and hence are in support of certification initiatives (AFoA 2012). The Argentinean Federation of Wood and Related Industry (FAIMA) represents the forest industry sector, grouping 26 different associations from around the country (FAIMA 2013a). Their main interests are the commerce of wood and wood products. Regar-

Gutiérrez O, C Céspedes-Payret, D Panario. Was the implementation of an Industrial Forestry Complex in Uruguay the result of a State Policy or Policy Transfer? Unpublished.

<sup>&</sup>lt;sup>2</sup> Idem.

ding international forest issues, they support certification processes, both FSC and PEFC, also as means of entering foreign markets (FAIMA 2013b). Moreover, they claim a forest trade network in Argentina to stop timber illegality is needed, such as the one proposed by Fundación Vida Silvestre Argentina (FVSA) (FAIMA 2012a). They work towards the use of wood for construction claiming it is a mechanism to store CO, helping to reduce emissions to stop climate change (FAIMA 2012b). The Association of Producers of Cellulose and Paper (AFCP) has grouped the main producers of pulp and paper in the country since 1932 (AFCP 2014). As well as the other forestry associations, their main interest is in forest certification, both FSC and PEFC, seeing it as a means of entering foreign markets (AFCP 2009). They are also interested in the bilateral dispute with Uruguay about the pulp mill (AFCP 2010).

There are several environmental NGOs involved in international forest issues. Although their main goal is conservation, they have different views of what this means and different approaches to achieve their goals. Among the most popular Environmental NGOs at a national level are FVSA, Greenpeace and Fundación Ambiente y Recursos Naturales (FARN).

Regarding climate change and forests, they all consider REDD+ as a valuable and positive tool to stop deforestation though they all emphasize it is very important to guarantee environmental and social safeguards in order to avoid negative effects due to this mechanism (Sibielau 2011, Greenpeace 2012). Both Greenpeace and FVSA support a legally binding document for climate change not only to reduce emissions (including emissions from deforestation) but also to include the finance of developed countries for adaptability measures in developing countries. They call for developed countries to have the responsibility to mitigate emissions and finance solutions (FVSA 2009, Greenpeace 2011). FARN claims that the GRULAC (group of countries from Latin America and the Caribbean) was not a protagonist in the climate change negotiations, except Brazil that was always closer to the EU and the USA than to Latin-American countries, and did not have unified and strong opinions as a group (FARN 2011a).

Regarding CBD, FVSA considers it is very important to protect areas in order to preserve biodiversity and works towards the creation of new protected areas as well as more control in the existing ones (FVSA 2010b). Greenpeace claims there is a lack of commitment to include production criteria to stop tropical forests destruction to make way to plantations as raw material for biofuel. This way, European Union countries keep using biofuels produced in non-sustainable ways and producer countries keep using agriculture practices that destroy the environment (Greenpeace 2008). FARN, on the other hand, argues towards the finance of the ambitious biodiversity goals of Aichi and the Nagoya Protocol (FARN 2011b).

FVSA points out forest certification as an important issue, they are a member of the environmental chair of FSC

international and between 2002 and 2006 were the contact organization for FSC in Argentina (FVSA 2012). As well, they work towards the creation of a forest trade network in Argentina based on the Global Forest and Trade Network to stop timber illegality (FVSA 2013). Greenpeace supports forest certification arguing that, in Argentina, it is the only means of assuring that companies are using environmental and social standards, providing the basis for an appropriate environmental management.

Both Greenpeace and FVSA strongly opposed the pulp mill in Uruguay (Greenpeace 2006a, FVSA 2006). Greenpeace joined the assembly in Gualeguaychu during demonstrations (Greenpeace 2006b). They argue against the construction of pulp mills, both in Argentina and in Uruguay, using old technologies and high environmental impacts and push for a binational plan of clean production (Greenpeace 2006a). FVSA claim that the conflict showed the need for more articulation between Argentina and Uruguay as well as the need of companies to adopt social responsibilities. They consider the pulp mill should have been located in a more appropriate location. They call for treatment systems as well as continuous monitoring to ensure the minimum environmental damage (FVSA 2006).

Government and administration bureaucracies. There are mainly three bureaucracies involved in international forest issues at national level.

- Natural forests are under the jurisdiction of the Secretariat of Environment and Sustainable Development. As part of their goals, they are responsible for evaluating CDM projects as well as making the REDD+ national strategy (SAyDS 2010b). About REDD+, they claim that this mechanism will require a level of capacities that most developing countries currently lack. Therefore, they highlight the need for timely and sufficient support from Annex I countries for capacity building activities. Further financing is requested including upfront financing. Concerning CDM, they claim baselines need to be updated periodically. In this regard, past efforts made by developing countries to improve performance in different economic sectors and subsectors of their economies should be recognized and incorporated into the baselines; hence, those developing countries could be in a position to sustain and deepen their mitigation efforts (SAyDS 2008). In relation to the pulp mill conflict with Uruguay, they were part of the committee in charge of presenting the issue in the International Court of Justice together with the Ministry of International Affairs and Cult, as well as developing an Environmental Monitoring Plan (SAyDS 2012b).
- Forest plantations, on the other hand, are under the jurisdiction of the Ministry of Agriculture, Livestock and Fishery. They are involved in CDM, Certification schemes as FSC and CerFoAr, UNFF and UNCCD. About CDM, they claim that forests are important carbon sinks and may play an important role in the adaptation

to climate change. They stress that fast growing plantations are very efficient carbon sinks and may contribute to fight climate change. Since studies showed that old growth forests stop fixing CO<sub>2</sub>, productive plantations are an environmental opportunity (MAGyP 2013). Regarding UNCCD, they believe forest plantations may help rehabilitate degraded lands and fight desertification. Reforestation can help recover degraded land by acting as wind barriers; thus helping absorb water and fixate soil plus being CO<sub>2</sub> sinks fighting climate change (MAGyP 2013).

The Ministry of International Affairs and Cult is also involved in international forest related issues, mainly by leading negotiations at the different conventions. They argue towards the differentiated obligations and responsibilities, calling for developed countries to stop transferring their responsibilities to developing countries and pushing them to provide public and genuine funds --to help mitigation and adaptation to climate change in developing countries-- as well as technologic transfer. They ask to participate in the elaboration of new technologies from the beginning. They argue against developed countries taking unilateral measures, based on climate change arguments, which block exports from developing countries (Taiana 2009). Concerning the bilateral conflict with Uruguay about the pulp mills, they were in charge of presenting the issue in the International Court of Justice against the construction of the pulp mill (SAyDS 2012b) claiming Uruguay violated the international treaty of the Uruguay River (Taiana 2006). They do not take active positions on the other international forest issues.

North - South discrepancies. When comparisons between a province from the north, Misiones, and a province from the south, Río Negro, were made, in order to investigate potential discrepancies due to ecological differences, a number of issues were observed as relevant. While in the south, forest certification processes are not a main issue, in the north, consulted experts see certification as the most relevant international issue (table 1: Interviews 6 and 7), with the main consequence of improving working conditions for forest workers (table 1: Interview 6, Cubbage et al. 2010). The north east region of Argentina holds 80 % of the forest plantations of the country mainly owned by big firms which are concerned about access to international markets and which can afford forest certification processes, while in the south, forests are owned mainly by smallholders who cannot afford these processes.

Although both, in the north and in the south, climate change is an issue, in the south the main topic is adaptation to climate change while in the north there is an interest in mitigation with CDM projects as well as many expectations around REDD. INTA has been researching the impact of climate change both on native as well as cultivated forests in the south of the country (Varela *et al.* 2013). On

the other hand, the Ministry of Ecology of Misiones represented Argentina in meetings both in UN-REDD and FCPF, showing the collaboration between the national and provincial level. In these meetings they highlighted the importance of federalism in the country, and how this should be respected when applying REDD+ mechanisms. The north of the country is more production-oriented and mitigation practices are used to justify more production. On the other hand, the south is more conservation-oriented, hence the adaptation measures.

Moreover, in the south one of the most relevant international forest related issues is the bilateral disputes with Chile about the invasion of exotic species, as the beaver, and the control of forest fires. Although the beaver is not currently a problem in the province of Río Negro, joint efforts with Chile have been made to stop the beaver from moving from the island of Tierra del Fuego into the continent. This effort is being done by all provinces from the "Bosques Andino Patagonicos" ecoregion (Table 1: Interviews 3 and 4). However, this is not an issue in the north.

#### DISCUSSION

The most relevant international forest policy issues of the past five years in Argentina were identified using qualitative content analyses of documents and interviews. According to our findings seven issues from the IFR-C were made relevant in Argentina by contrasting positions of different actors. The issues detected were not the same as the relevant subjects found in a similar study conducted in Indonesia (Wibowo and Giessen 2012), although climate change and forest certification were relevant in both countries. Previous studies in Argentina only focused on forest certification and its impact on forest sustainability (Cubbage et al. 2010). However, no analysis of the IFR-C or other issues was done before. Studies on the implementation of the IFR-C are very important to understand the influence and effects of the different issues at national level (Lindstad and Solberg 2010, Bernstein and Cashore 2012); though, not much is known. Many attempts have been made to measure the effectiveness of the IFR-C (Hovi et al. 2003, Young 2003, Sprinz 2005). However, due to the fragmented nature of the IFR-C (Giessen 2013) in order to understand the effects of the IFR-C, a shift to influence-oriented studies is needed (Bernstein and Cashore 2012), which should be built on a theory-based, yet empirically applicable, understanding of the relevant actors' power resources (Krott et al. 2013).

Domestic actors are important in shaping the international forest related issues and their uptake at national level, depending on their interests (Giessen 2013). According to Hofmann (2002), in federal systems, as the one in Argentina, national bureaucracies benefit by gaining influence through the implementation of the IFR-C. As a result national bureaucracies dealing with forests become very competitive (Giessen 2013, Giessen *et al.* 2014)

within national bureaucracies but also with subnational bureaucracies. Our results support this, with national bureaucracies, as the Ministry of Agriculture, Livestock and Fisheries and the Secretariat of Environment and Sustainable Development, having different positions towards some of the different issues. However, regarding some issues they seem to work together. This may be surprising since according to the bureaucratic politics theory only a single actor has a dominant role in a particular sector (Peters 2010). Similar results were found in Indonesia (Wibowo and Giessen 2012). Our analyses focused on public positions. Different results might be observed when analyzing ongoing politics. Based on the amount of issues, each actor had a public position; the most active actors were the environmental NGOs, which had public positions about most of the issues. However, the Secretariat of Environment and Sustainable Development was the most relevant actor, considering it is involved in the implementation of all the issues detected. This result shows the significance of main bureaucracies in dealing with international forest issues in Argentina as suggested by the bureaucratic politics theory (Peters 2010).

When analyzing the subnational level in two provinces with different ecological conditions, discrepancies were detected especially regarding forest certification. Surprisingly, no discrepancy between the north and the south was detected regarding desertification. Considering the climatic conditions of the south and the long term impacts predicted to this area due to climate change, we expected desertification to be a main issue for this area. However, no differences were observed concerning this issue. The results of the subnational levels show that it is politically worthwhile to account for ecological variations in policy analyses because they lead to different incentives and production patterns.

Our methodology did not detect deforestation or soy bean expansion as an international forest related issue despite being a central question in the country (Pengue 2005, Leguizamón 2014). The selection of broadly distributed newspapers, both at the national and provincial level, as a first stage in the search of public sources can cause potential biases by two selection processes. Firstly, the selection of the sources by the authors may lead to a bias. Secondly, media selection processes can influence forest discourses (Sadath et al.2013). The same limitations apply to our selection of the professional journals. The scope of the chosen media and the expected interest of the audience could explain the issues they discuss (Sadath et al. 2013). However the issues discussed in the public sources were only used as a first step in the analyses. The use of other sources allowed the minimization of this bias. Our methodology focused on the position of the different actors on the diverse issues relevant in Argentina. However, the issues which are not made relevant and the reason why they are not made relevant cannot be detected by our methodology. Future analyses focusing on this should be carried out to further explain the implementation of the IFR-C in Argentina.

# CONCLUSIONS

The different actors identified in this study showed opposing positions towards the different forest issue elements from the forest regime complex. The major differences in positions were observed between environmental NGOs and the Secretariat of Environment and Sustainable Development and the Ministry of Agriculture, Livestock and Fisheries. These differences in the interests of the main actors determined which forest issue elements are actively made relevant in Argentina. Climate change and forests was detected as the issue that presented the most opposing positions. At subnational level, a number of forest issues were observed as relevant, most likely due to ecological and political differences.

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