

Tropical Timber Trade Regime

# **Coalition Formation in International Environmental Regimes**

Ab	stract	Coaliti
transaction costs. Until now we have knowledge on coalition formation is project is to model and analyse the for The analysis will be theory-base	ed and data-based. The structure of d negotiations among states, which form	
Background		
In the anarchic system of states, conflict should be the norm as realism predicts. But regime theory shows that there is cooperation among states despite anarchy (Zangl 2006). As we can observe, there is cooperation e.g. in climate change or biodiversity. The arena in which the coopertion between states takes place is called a regime. Krasner gives an abstract definition: "International regimes are defined as principles, norms, rules, and decision-making procedures around which actor expectations converge in a given issue-area." (Krasner 1983: 2). Until now we have only descriptive, but hardly analytical knowledge on coalition formation in international regimes.		
"The number of actors paticipating two to the complete set of states. Wh with many actors, we do not know regime consequences." (Levy et al. 1 "[] much research on international	in an international regime may vary from nereas it is more difficult to create regimes much about the effects of numbers on	
Da	ataset	
international environmental regimes on international environmental regin "International Regimes Database" by	not available, however, there are data on . Therefore, the analysis will concentrate nes. The data used is extracted from the / Breitmeier, Young and Zürn (2006). This nal environmental regimes and includes	Heuristic p
Antarctic Regime	Baltic Sea Regime	
Barents Sea Fisheries Regime	Biodiversity Regime	
CITES (Convention on International Trade in Endangered Species)	Climate Change Regime	
Danube River Protection	Desertification Regime	
Great Lakes Management Regime	Hazardous Waste Regime	
IATTC Regime (Inter-American Tropical	ICCAT Regime (International Commission	
Tuna Commission) International Regulation of Whaling	for the Conservation of Atlantic Tunas) London Convention Regime	
Long-Range Transboundary Air Pollution	North Sea Regime	
Oil Pollution Regime	Protection of the Rhine Against Pollution	
Ramsar Regime	Regime for Protection of the Black Sea	
South Pacific Fisheries Forum Agency Regime	Stratospheric Ozone Regime	

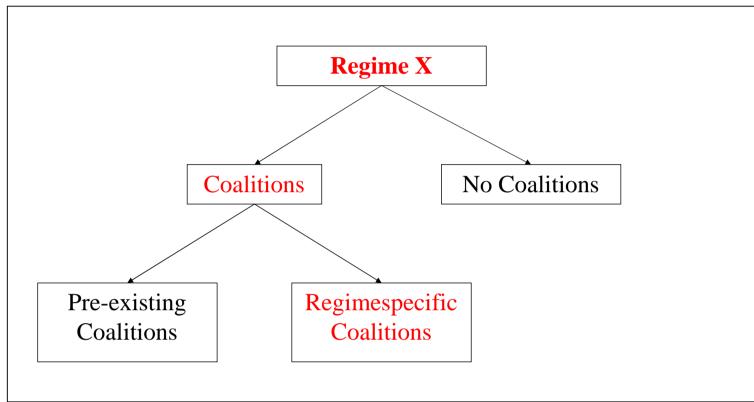
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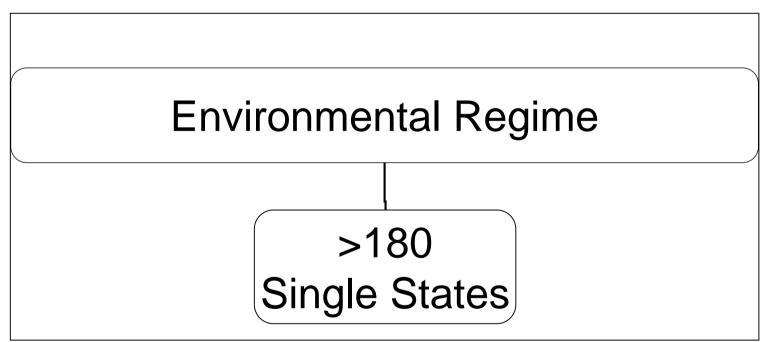
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### tions in International Environmental Regimes

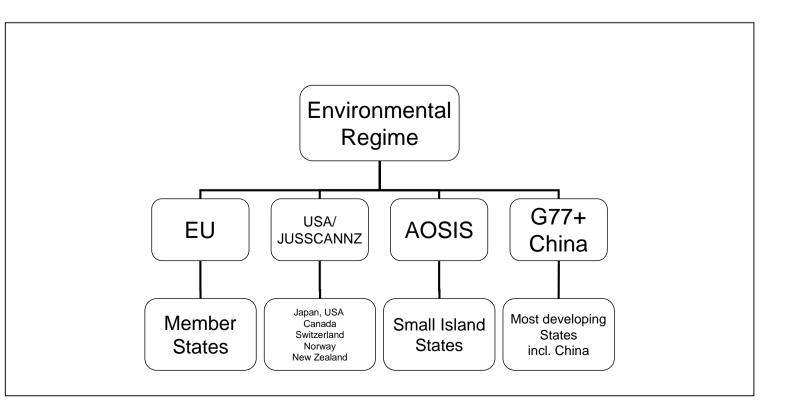
The focus of the analysis



principle I: disordered negotiations among the complete set of states



principle II: In order to save transaction costs, states form coalitions. These coaltions negotiatiate to form the environmental regime



H 1	The higher the nu occur.
H 2	Actors with greater
H 3	The more powerfu other state.
Η4	Actors, who are n coalitions among e
H 5	The more power a coaltion.
H 6	It is more likely that member in the same
Η7	It is more likely neighbours, than w

The basic model describes two phases in the coalition formation process, the formation of the initial coalitions and the coalition game in which the final coalitions evolve.

In the first step, the "Exclusive Membership Multiple Coalition  $\Delta$ -Game" as suggested by Finus (2001) will be implemented. At time step t=0 actors simultaneously announce a list of actors with which they like to form a coalition. Those actors that mutually list each other will form a coalition (Finus 2001: 296). In the second step states play the coalition game. Every actor decides at every following timestep t>0 to stay in his actual coalition or to join another coalition. The coalition structure is called stable if there is

a) no incentive for a signatory to a coalition to leave the coalition and b) no incentive for a non-signatory to join the coalition.

to Database. Cambridge: MIT Press. Elgar.

Levy, M. A., Young, O. R. und M. Zürn (1995): The Study of International Regimes. In: European Journal of International Relations 1: 267 330. Zangl, B. (2006): Regimetheorie. In: Schieder, Siegfried und Manuela Spindler (Hrsg.): Theorien der Internationalen Beziehungen. Opladen/Farmington Hills: Budrich. 121 144.





### Hypotheses (in Development)

umber of participating actors, the more likely coalitions

r power tend to form coalitions among each other.

ul a state is, the less often he forms a coalition with an

negatively affected by a negotiated issue tend to form each other.

a coalition has, the more likely an other state joins that

hat state A forms a coalition with state B, if state B is a me supranational federation (e.g. EU) as state A.

that states form coalitions with their geographical with other states.

#### The Basic Model

#### References

Breitmeier, H., Young, O. R. und M. Zürn (2006): Analyzing International Environmental Regimes. From Case Study

Krasner, S. D. (1983): Structural Causes and Regime Consequences: Regimes as Intervening Variables. In Krasner, Stephen D. (Hrsg.): International Regimes. Ithaca/New York/London: Cornell University Press. 4 22 Finus, M. (2001): Game Theory and International Environmental Cooperation. Cheltenham, Northampton: Edward