HW: Count Models

In the following, you will be expected to analyze real data (as opposed to the monte carlo data we've been using so far). Write your results as if you're writing a lab report. I do not expect a 20 or 30-page paper. However, clearly lead the reader through your model, results, and your interpretation/discussion. Additionally, while I do not expect you to be an expert in these substantive areas, do treat them seriously, as if you were actually conducting research on these topics.

1. In *Coercive Cooperation*, Lisa Martin (1992) examines international cooperation in economic sanctions. An early variant of her data (SNCT.DAT) is at www.rochester.edu/College/PSC/signorino/ under "courses" then "psc505" then "data". The codebook is SNCT.DOC. The dataset is formatted for Gauss, so you will have to convert it to Stata format or some other format you can use in R.

Using NUM (number of senders) as the dependent variable, conduct OLS, truncated poisson, negative binomial, and truncated negative binomial regressions. Interpret your results (with tables and graphs) and compare them to hers (pp.74–85). Note that the data are slightly different from the set she used in her book, so your results won't match exactly.