Errata 8.4

Michael D. Ward & John S. Ahlquist

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Section 8.4

The equation describing parallel regression assumptions in section 8.4 (middle of the page) is incorrect. Rather, for the case of a logit, the partial derivative for the **log odds** that Y is in any category with respect to the covariate information should be equal. We illustrate this below for a model with one covariate, x:

$$
\begin{aligned}
\frac{\partial}{\partial x} \log\left(\frac{\Pr(y \leq m|x)}{\Pr(y > m|x)}\right) &= \\
\frac{\partial}{\partial x} \log\left(\frac{\Pr(y \leq m-1|x)}{\Pr(y > m-1|x)}\right) &= \\
\frac{\partial}{\partial x} \log\left(\frac{\Pr(y \leq m-2|x)}{\Pr(y > m-2|x)}\right) &= \beta
\end{aligned}
$$

Thanks to Jeff Lewis for alerting us to this error.