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365 Fifth Avenue, New York, NY 10016. *Restricting Martin's Axiom to a ccc ground model.*

We consider a variation of Martin's Axiom, called the grounded Martin's Axiom or gMA, which asserts the existence of partially generic filters for ccc posets contained in an inner model of which (a fragment of) the universe is a ccc forcing extension. This principle emerges naturally in the analysis of the classic Solovay-Tennenbaum proof of the consistency of MA. The new axiom is shown to be consistent with the failure of MA and the continuum being any (possibly singular) cardinal of uncountable cofinality. We separate gMA from some of the usually considered weakenings of MA. We show that while gMA implies that the cardinals in the right side of Cichoń's diagram equal the continuum, it is consistent with the left side of the diagram collapsing to ω_1 . We also prove that gMA is preserved in a strong way when adding either a Cohen or a random real. (Received September 16, 2013)