

Supporting Information for "Finite Fault Inversion of Mw4.1 and its Implications for Induced Earthquake Ruptures"

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Contents of this file

1. Figures S1
2. Tables S1

Introduction We include one supplemental figure S1 and table S1 to support the conclusions of the manuscript. Figure S1 shows the slip distributions we compare our results to and their identified slip patches. Table S1 provides individual information for each of these earthquakes as well as previously estimates source properties.

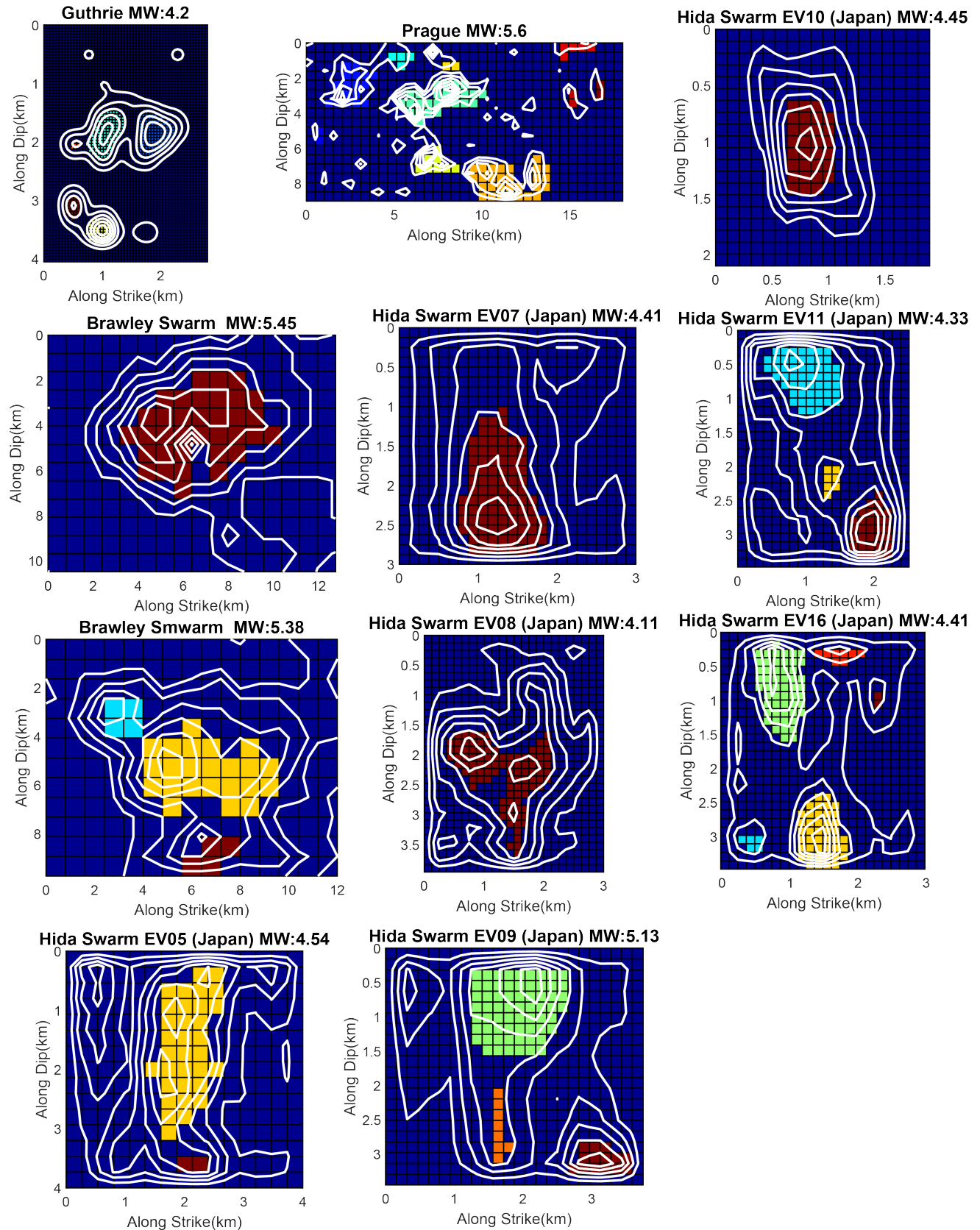


Figure S1. Slip distributions for each earthquake compared in the study and there identified individual slip patches. Slip contours have been normalized to maximum slip for each event and contours represent 15% increments. Slip patches are colored based upon group and non-grouped grids are blue.

Table S1. Earthquakes Compared and Slip Patch Number

Event	Date	Mw	Stress Drop(Mpa)	Number of Slip Patches
Guthrie	04/08/2015	4.1	1.58	5
Prague	11/06/2011	5.6	1.6	10
Hida Ev 5	08/12/1998	4.7	1.19	2
Hida Ev 7	08/14/1998	4.6	1.94	1
Hida Ev 8	08/16/1998	4.5	0.54	1
Hida Ev 9	08/16/1998	5.2	1.19	3
Hida Ev 10	08/17/1998	4.7	0.92	1
Hida Ev 11	08/22/1998	4.5	0.97	3
Hida Ev 16	09/18/1998	4.6	0.81	5
Brawley Swarm Ev 1*	09/26/2012	5.4	-	1
Brawley Swarm Ev 2*	09/26/2012	5.3	-	3

*Stress drop values not available.