

Table 2. Benchmark results for cases with tetrahedral symmetry and its variations

Case	t1	t2	< V_rms >	Nu_top	Nu_bot	< T >	T_mid_min	T_mid_max	Velo_mi_d_min	Velo_mi_d_max
BM1A	0.7	1.0	32.67(0.00043)	3.5132(0.00018)	3.4920(3.2e-05)	0.2172(1.5e-05)	0.01750(5.3e-06)	0.8974(0.00015)	-29.98(0.0051)	114.8(0.015)
SHH06			32.5894	3.4864	3.4864					
RSZ96			32.19	3.4423						
YK04			32.05	3.4430						
BM1B	1.0	1.9	27.36(0.00013)	3.2701(0.00020)	3.2502(8.8e-05)	0.2362(1.5e-05)	0.02124(7.0e-05)	0.9085(0.00062)	-17.21(0.0081)	139.8(0.16)
SHH06			27.2591	3.2398	3.2399					
RSZ96			26.80	3.2337						
BM1C	0.6	0.9	25.85(0.0012)	3.1739(0.00021)	3.1554(4.7e-05)	0.2433(1.5e-05)	0.02320(2.5e-05)	0.9126(0.0013)	-15.03(0.0042)	147.7(0.40)
SHH06			25.7300	3.1447	3.1450					
RSZ96			25.69	3.1615						
YK04			26.11	3.1330						
BM1D	1.5	2.0	23.12(6.4e-05)	2.9365(5.3e-06)	2.9211(4.5e-06)	0.2654(1.4e-06)	0.03324(6.1e-06)	0.9234(0.00019)	-10.75(0.0021)	170.0(0.11)
BM1E	1.0	1.5	22.91(0.0034)	2.5472(0.00048)	2.5354(0.00039)	0.3125(1.2e-05)	0.06948(1.2e-05)	0.9459(0.00063)	-6.970(0.13)	227.3(0.80)
BM1F	2.6	3.6	29.24(0.077)	2.0421(0.0051)	2.0329(0.0062)	0.3512(0.0014)	0.15227(0.0003)	0.9606(0.0029)	-21.04(1.6)	298.1(5.8)
BM1G	1.2	1.7	50.21(0.0083)	2.7383(0.00055)	2.7431(7.7e-05)	0.5040(0.00010)	0.27008(0.0003)	0.9452(0.00093)	-23.90(0.11)	300.2(6.3)
BM1H	0.8	1.0	87.66(0.010)	3.0338(0.0021)	3.0681(0.0024)	0.5457(0.00011)	0.47030(0.0016)	0.9690(0.0014)	-46.98(0.11)	806.9(1.8)

To view the table in its entirety, enlarge the browser window.

Note:

1) t1 and t2 are the starting and ending times for computing the averages, , Nu_top, Nu_botm, and are averaged RMS velocity, nussult number at the top and bottom boundaries, and

TABLE 2. BENCHMARK RESULTS FOR CASES WITH TETRAHEDRAL SYMMETRY AND ITS VARIATIONS

temperature, respectively. T_{mid_min} , T_{mid_max} , $velo_mid_min$, and $velo_mid_max$ are the minimum and maximum temperatures, minimum and maximum velocities at the middle depth of the mantle.

2) The numbers in parentheses are standard deviations.

3) SHH06 is Stemmer et al. {2006}, RSZ96 is Ratcliff et al. {1996}, and YK04 is Yoshida and Kageyama {2004}. Resolution for these studies is given in Table 1.