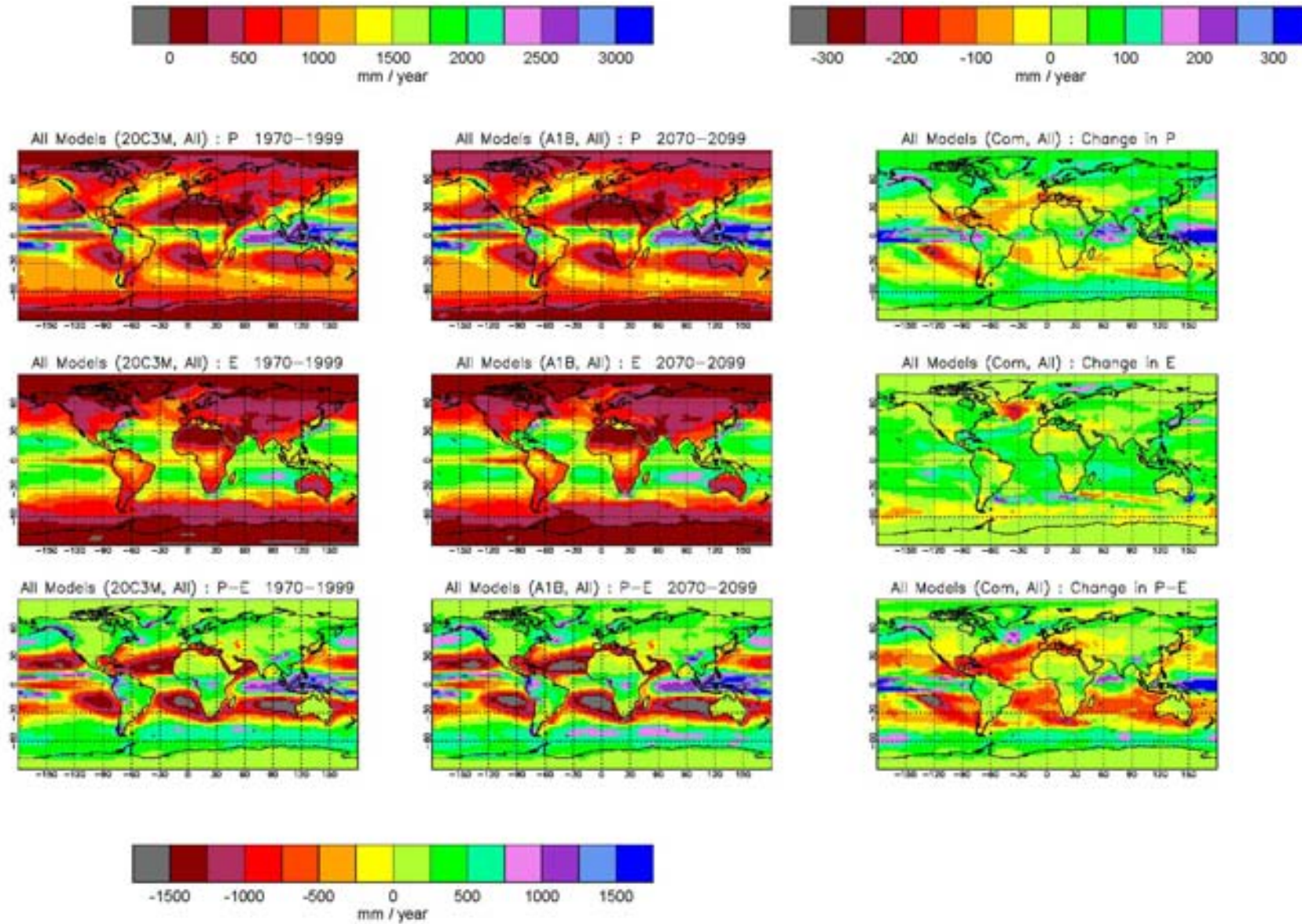
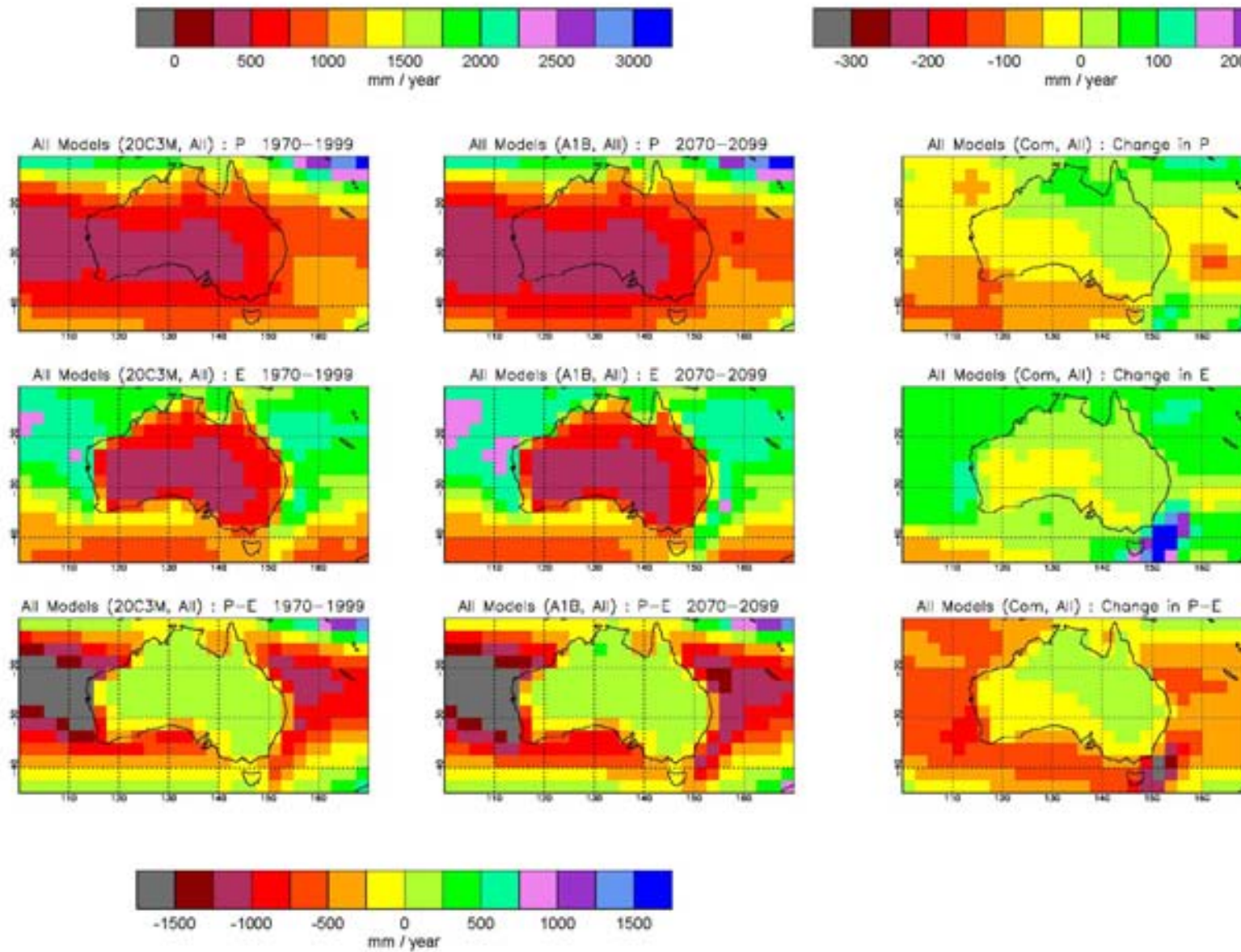


3.5 The All-Model-Runs Average: Maps and Tables

To further summarise the results, we averaged the global water balance (P, E, P-E) as simulated by all model runs for the 20C3M and A1B scenarios. The maps and tables (as per the format used in section 3.1) follow.

The GISS-AOM model results were not used for the Antarctic region because this model assumed 100% ocean surface at these latitudes. The exclusions are denoted in each table.





All Models

Region	1970 - 1999 (20C3M, All)				2070 - 2099 (A1B, All)				Δ(1970-1999 to 2070-2099)		
	Land				Land				Land		
	Area	P	E	P-E	Area	P	E	P-E	ΔP	ΔE	Δ(P-E)
	m ²	mm/yr	mm/yr	mm/yr	m ²	mm/yr	mm/yr	mm/yr	mm/yr	mm/yr	mm/yr
All	1.47E+14	770.2	537.5	232.7	1.47E+14	818.4	565.1	253.4	48.2	27.6	20.7
Australia	7.77E+12	627.6	639.4	-11.8	7.77E+12	636.0	650.6	-14.6	8.4	11.2	-2.8
New Zealand	2.34E+11	1293.2	899.4	393.8	2.34E+11	1339.4	940.4	399.0	46.2	41.0	5.2
South America	1.81E+13	1324.9	942.4	382.6	1.81E+13	1369.5	964.6	404.9	44.6	22.2	22.3
North America	2.36E+13	733.8	457.1	276.7	2.36E+13	792.4	491.0	301.4	58.6	33.9	24.7
Europe	6.61E+12	731.4	522.3	209.1	6.61E+12	723.9	544.4	179.5	-7.5	22.1	-29.7
Africa	2.94E+13	795.3	636.0	159.3	2.94E+13	832.0	661.3	170.7	36.7	25.3	11.4
Middle East	4.89E+12	139.0	262.9	-123.9	4.89E+12	144.3	271.5	-127.3	5.3	8.6	-3.3
Asia	3.81E+13	631.6	401.3	230.3	3.81E+13	703.9	442.0	261.9	72.4	40.8	31.6
Southeast Asia	4.20E+12	2103.6	1274.8	828.7	4.20E+12	2220.4	1318.4	902.0	116.8	43.5	73.3
Antarctica	1.34E+13*	213.3*	27.1*	186.2*	1.34E+13*	242.9*	29.6*	213.3*	29.6*	2.5*	27.1*

* Results of GISS-AOM_Set1 and GISS-AOM_Set2 excluded.

All Models

	1970 - 1999 (20C3M, All)											
	Globe				Ocean				Land			
	Area	P	E	P-E	Area	P	E	P-E	Area	P	E	P-E
	m ²	mm/yr	mm/yr	mm/yr	m ²	mm/yr	mm/yr	mm/yr	m ²	mm/yr	mm/yr	mm/yr
All	5.09E+14	1045.0	1045.0	0.0	3.63E+14	1156.7	1251.0	-94.3	1.47E+14	770.2	537.5	232.7
-90° to -80°	3.86E+12	108.4	9.6	98.8	6.26E+10*	162.4*	40.2*	122.1*	3.79E+12*	105.4*	6.6*	98.8*
-80° to -70°	1.15E+13	293.5	62.9	230.5	3.63E+12*	477.1*	140.5*	336.5*	7.85E+12*	209.1*	21.9*	187.2*
-70° to -60°	1.88E+13	688.3	247.8	440.5	1.70E+13*	716.5*	261.3*	455.1*	1.78E+12*	472.3*	97.9*	374.4*
-60° to -50°	2.55E+13	1017.7	467.1	550.6	2.52E+13	1015.9	465.7	550.1	2.13E+11	1233.5	640.4	593.0
-50° to -40°	3.14E+13	1118.5	784.8	333.7	3.04E+13	1117.8	788.8	329.0	9.80E+11	1136.9	657.6	479.3
-40° to -30°	3.64E+13	875.7	1234.9	-359.2	3.22E+13	916.2	1312.6	-396.4	4.20E+12	565.1	638.8	-73.8
-30° to -20°	4.02E+13	751.0	1473.7	-722.7	3.09E+13	759.0	1716.5	-957.5	9.31E+12	725.0	666.8	58.2
-20° to -10°	4.29E+13	1299.3	1662.2	-362.9	3.34E+13	1324.4	1871.5	-547.1	9.48E+12	1211.7	925.2	286.5
-10° to 0°	4.42E+13	1760.7	1444.9	315.8	3.41E+13	1759.0	1529.6	229.4	1.01E+13	1766.5	1161.9	604.7
0° to 10°	4.42E+13	1866.1	1410.9	455.2	3.42E+13	1950.5	1515.1	435.4	1.00E+13	1577.9	1055.4	522.5
10° to 20°	4.29E+13	1196.1	1514.6	-318.5	3.17E+13	1358.3	1814.5	-456.2	1.12E+13	736.0	667.2	68.8
20° to 30°	4.02E+13	693.5	1222.5	-529.0	2.52E+13	776.3	1693.3	-917.0	1.51E+13	555.0	436.4	118.6
30° to 40°	3.64E+13	864.6	997.1	-132.5	2.09E+13	1046.1	1370.1	-324.0	1.54E+13	617.9	491.4	126.5
40° to 50°	3.14E+13	903.3	621.7	281.6	1.53E+13	1196.5	792.7	403.8	1.60E+13	622.8	457.4	165.4
50° to 60°	2.55E+13	837.8	467.1	370.6	1.10E+13	1049.4	589.4	460.0	1.45E+13	677.8	373.8	304.1
60° to 70°	1.88E+13	609.1	276.6	332.5	5.50E+12	764.8	426.4	338.4	1.33E+13	545.9	214.8	331.1
70° to 80°	1.15E+13	325.8	119.4	206.4	7.78E+12	336.3	137.8	198.5	3.70E+12	302.1	79.0	223.2
80° to 90°	3.86E+12	223.3	41.1	182.3	3.49E+12	224.8	41.9	182.9	3.69E+11	209.1	31.0	178.0

* Results of GISS-AOM_Set1 and GISS-AOM_Set2 excluded.

All Models

	2070 - 2099 (A1B, All)												Δ(1970-1999 to 2070-2099)								
	Globe				Ocean				Land				Globe			Ocean			Land		
	Area	P	E	P-E	Area	P	E	P-E	Area	P	E	P-E	ΔP	ΔE	Δ(P-E)	ΔP	ΔE	Δ(P-E)	ΔP	ΔE	Δ(P-E)
	m ²	mm/yr	mm/yr	mm/yr	m ²	mm/yr	mm/yr	mm/yr	m ²	mm/yr	mm/yr	mm/yr	mm/yr	mm/yr	mm/yr	mm/yr	mm/yr	mm/yr	mm/yr	mm/yr	mm/yr
All	5.09E+14	1091.9	1091.9	0.0	3.63E+14	1203.1	1305.8	-102.7	1.47E+14	818.4	565.1	253.4	46.9	46.9	0.0	46.4	54.8	-8.4	48.2	27.6	20.7
-90° to -80°	3.86E+12	123.5	111.6	111.9	6.26E+10*	178.4*	44.0*	134.4*	3.79E+12*	119.9*	8.4*	111.5*	15.1	2.0	13.1	16.0*	3.7*	12.3*	14.5*	1.7*	12.8*
-80° to -70°	1.15E+13	332.7	69.8	262.9	3.63E+12*	539.3*	157.3*	381.9*	7.85E+12*	239.0*	24.5*	214.5*	39.3	6.9	32.4	62.2*	16.8*	45.4*	29.9*	2.6*	27.3*
-70° to -60°	1.88E+13	781.9	251.5	530.4	1.70E+13*	817.1*	265.9*	551.2*	1.78E+12*	532.1*	101.0*	431.1*	93.6	3.7	90.0	100.6*	4.5*	96.1*	59.8*	3.1*	56.7*
-60° to -50°	2.55E+13	1111.2	454.1	657.1	2.52E+13	1109.7	452.4	657.3	2.13E+11	1286.1	662.9	623.1	93.5	-13.1	106.5	93.8	-13.3	107.1	52.6	22.5	30.1
-50° to -40°	3.14E+13	1137.2	828.0	309.2	3.04E+13	1138.8	832.9	306.0	9.80E+11	1085.6	675.0	410.6	18.7	43.2	-24.4	21.0	44.0	-23.0	-51.4	17.4	-68.8
-40° to -30°	3.64E+13	846.5	1284.4	-437.9	3.22E+13	883.6	1366.3	-482.8	4.20E+12	562.0	655.2	-93.2	-29.2	49.4	-78.7	-32.7	53.7	-86.4	-3.1	16.4	-19.5
-30° to -20°	4.02E+13	733.6	1530.1	-796.4	3.09E+13	732.3	1786.7	1054.4	9.31E+12	739.2	677.4	61.8	-17.3	56.4	-73.7	-26.7	70.2	-96.9	14.2	10.5	3.6
-20° to -10°	4.29E+13	1297.3	1740.2	-442.9	3.34E+13	1312.1	1966.9	-654.8	9.48E+12	1245.2	941.5	303.7	-2.1	78.0	-80.1	-12.2	95.4	-107.7	33.5	16.3	17.2
-10° to 0°	4.42E+13	1902.7	1509.1	393.6	3.41E+13	1913.2	1601.3	311.9	1.01E+13	1868.4	1201.1	667.3	142.0	64.2	77.8	154.2	71.7	82.6	101.8	39.2	62.6
0° to 10°	4.42E+13	2005.5	1469.9	535.6	3.42E+13	2107.7	1578.2	529.5	1.00E+13	1657.6	1100.8	556.8	139.4	59.0	80.4	157.2	63.1	94.1	79.7	45.4	34.3
10° to 20°	4.29E+13	1228.3	1582.9	-354.6	3.17E+13	1391.0	1897.1	-506.1	1.12E+13	766.9	695.3	71.6	32.2	68.3	-36.1	32.7	82.6	-49.9	30.9	28.1	2.8
20° to 30°	4.02E+13	694.7	1277.7	-583.0	2.52E+13	758.0	1770.6	1012.6	1.51E+13	588.9	454.8	134.1	1.2	55.2	-54.0	-18.3	77.3	-95.5	33.8	18.3	15.5
30° to 40°	3.64E+13	865.5	1040.8	-175.3	2.09E+13	1034.2	1429.8	-395.5	1.54E+13	636.4	513.4	123.0	0.9	43.7	-42.8	-11.9	59.7	-71.5	18.5	22.0	-3.5
40° to 50°	3.14E+13	946.8	660.6	286.2	1.53E+13	1252.9	830.7	422.2	1.60E+13	653.9	497.2	156.7	43.5	38.9	4.6	56.4	38.0	18.4	31.1	39.8	-8.7
50° to 60°	2.55E+13	919.6	492.6	427.0	1.10E+13	1134.1	582.7	551.4	1.45E+13	757.4	423.8	333.6	81.8	25.5	56.4	84.6	-6.7	91.4	79.5	50.0	29.5
60° to 70°	1.88E+13	708.6	308.2	400.4	5.50E+12	858.0	453.0	405.0	1.33E+13	648.4	249.3	399.1	99.5	31.6	67.9	93.2	26.6	66.6	102.5	34.4	68.1
70° to 80°	1.15E+13	410.4	164.8	245.6	7.78E+12	424.5	196.3	228.2	3.70E+12	379.2	96.5	282.7	84.6	45.4	39.2	88.2	58.5	29.6	77.1	17.5	59.6
80° to 90°	3.86E+12	300.5	70.3	230.1	3.49E+12	302.1	73.3	228.7	3.69E+11	284.9	38.3	246.6	77.1	29.3	47.8	77.2	31.4	45.8	75.9	7.3	68.6

* Results of GISS-AOM_Set1 and GISS-AOM_Set2 excluded.