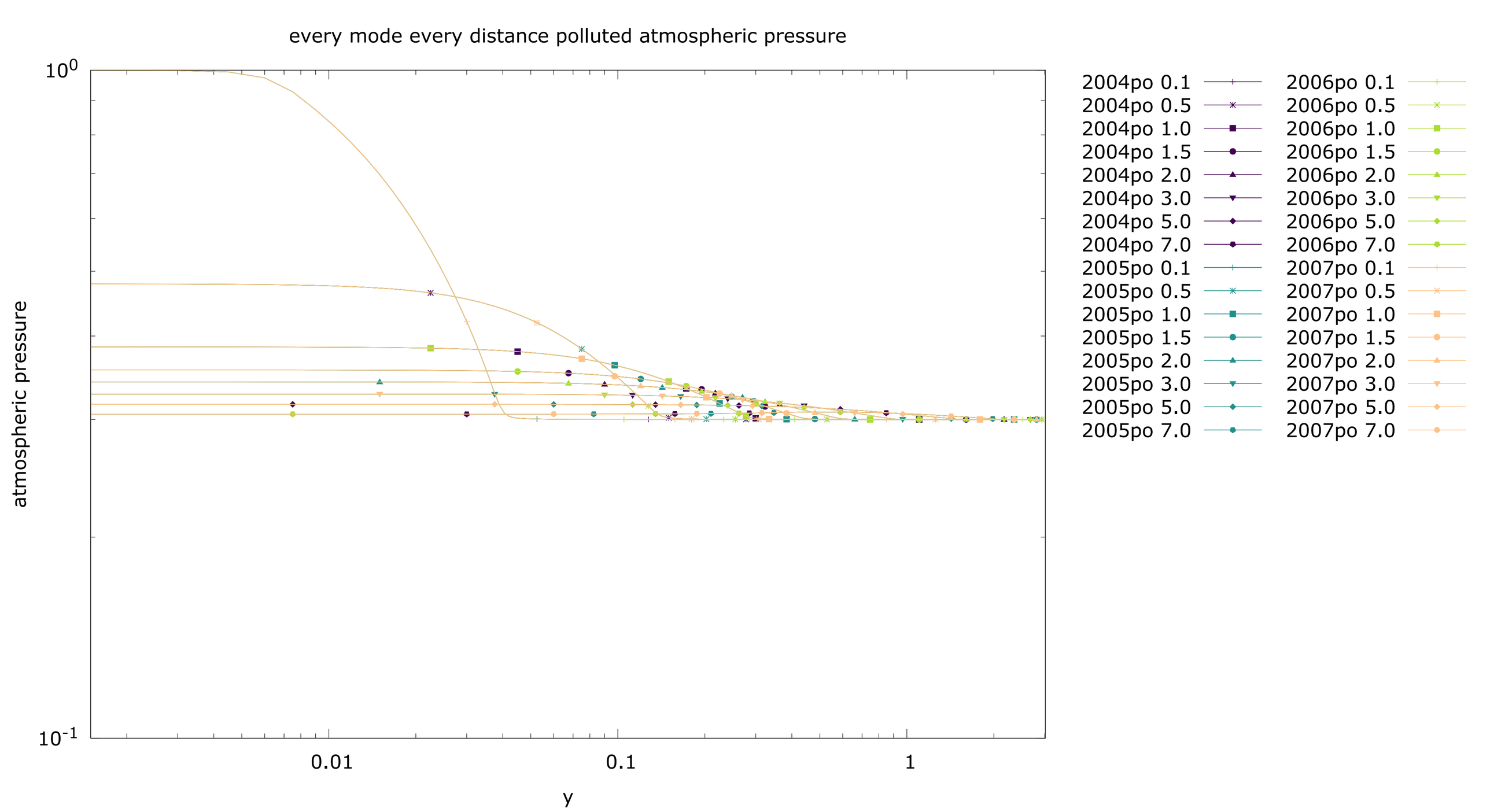
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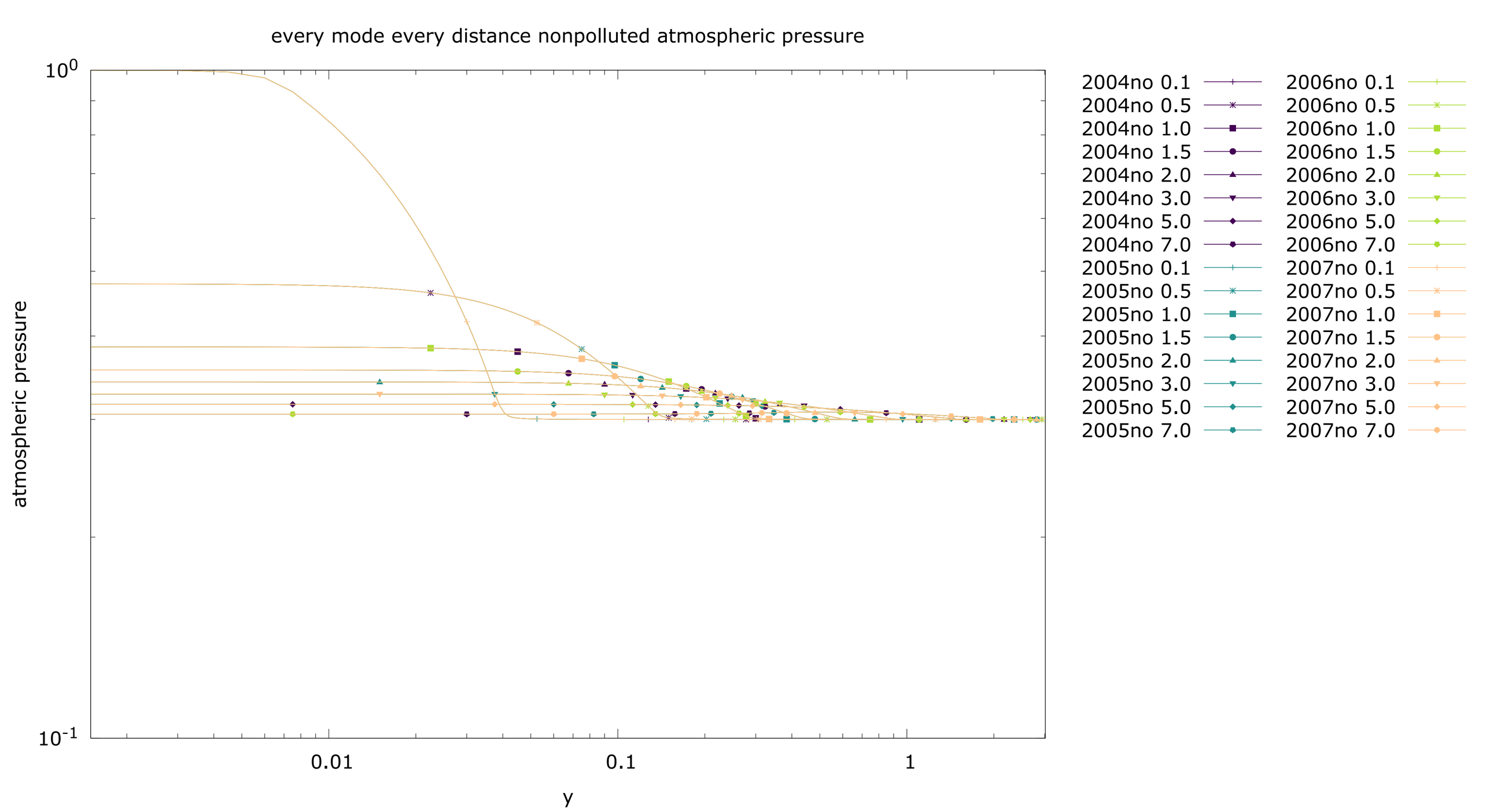
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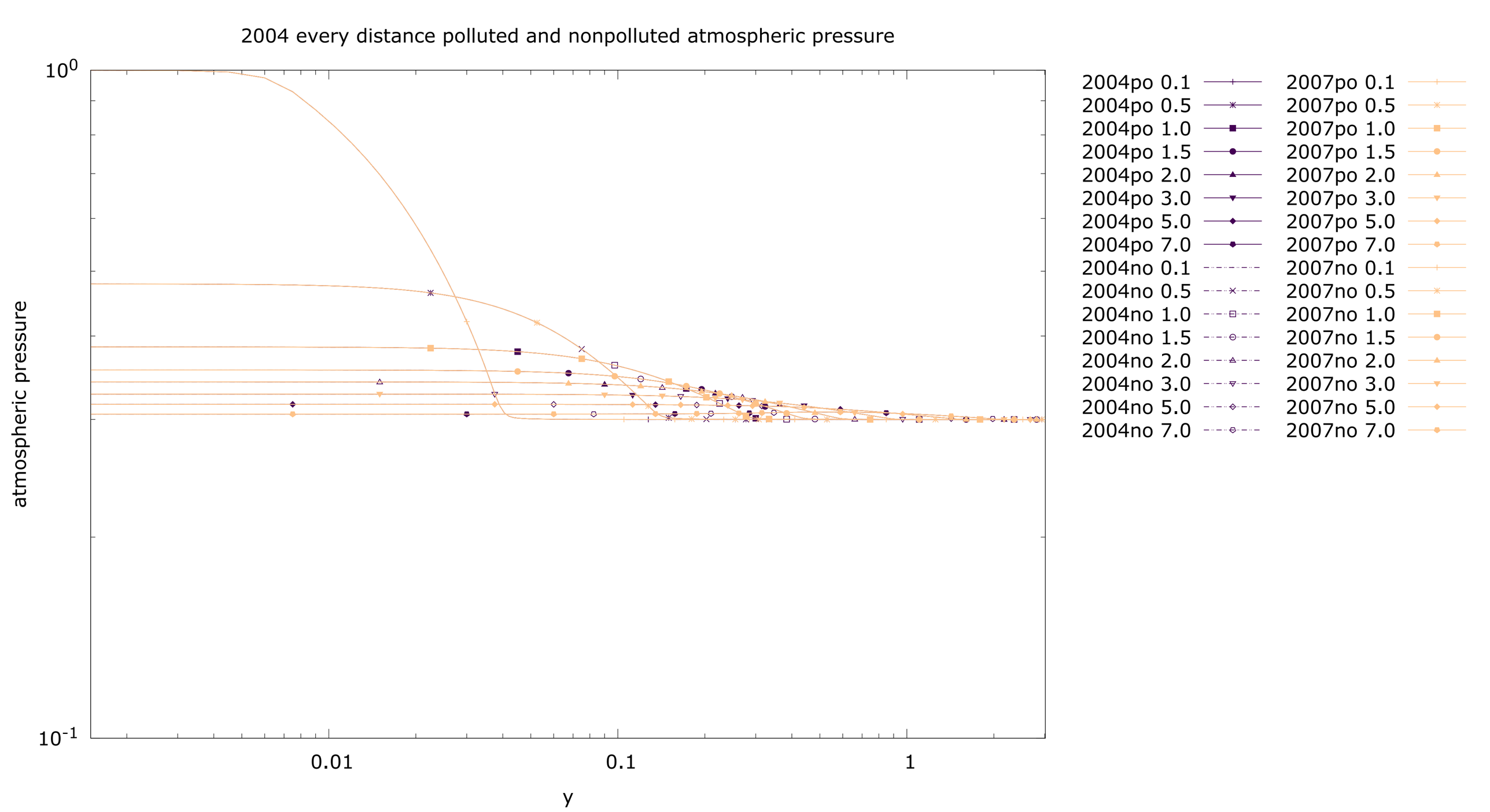
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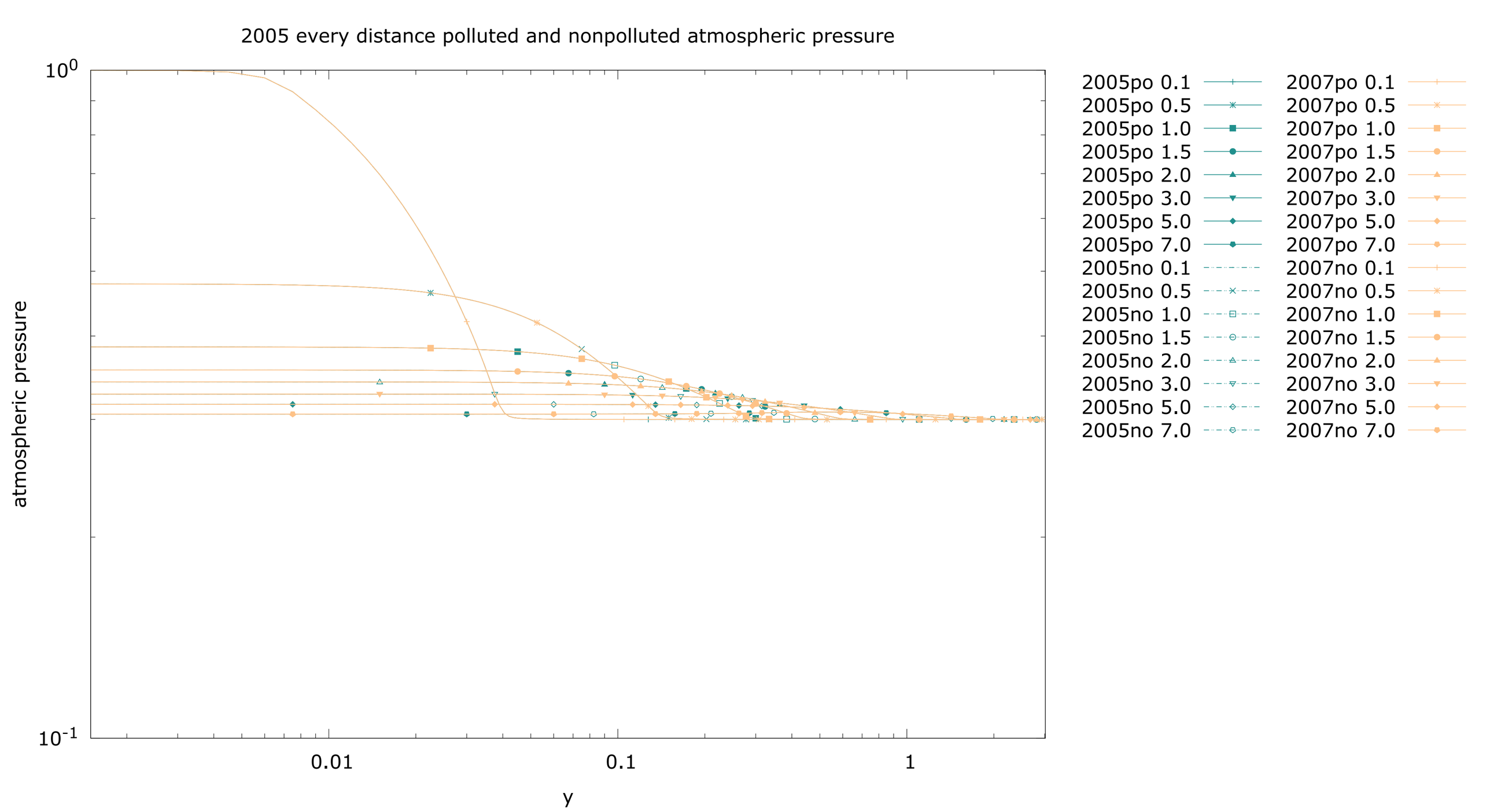
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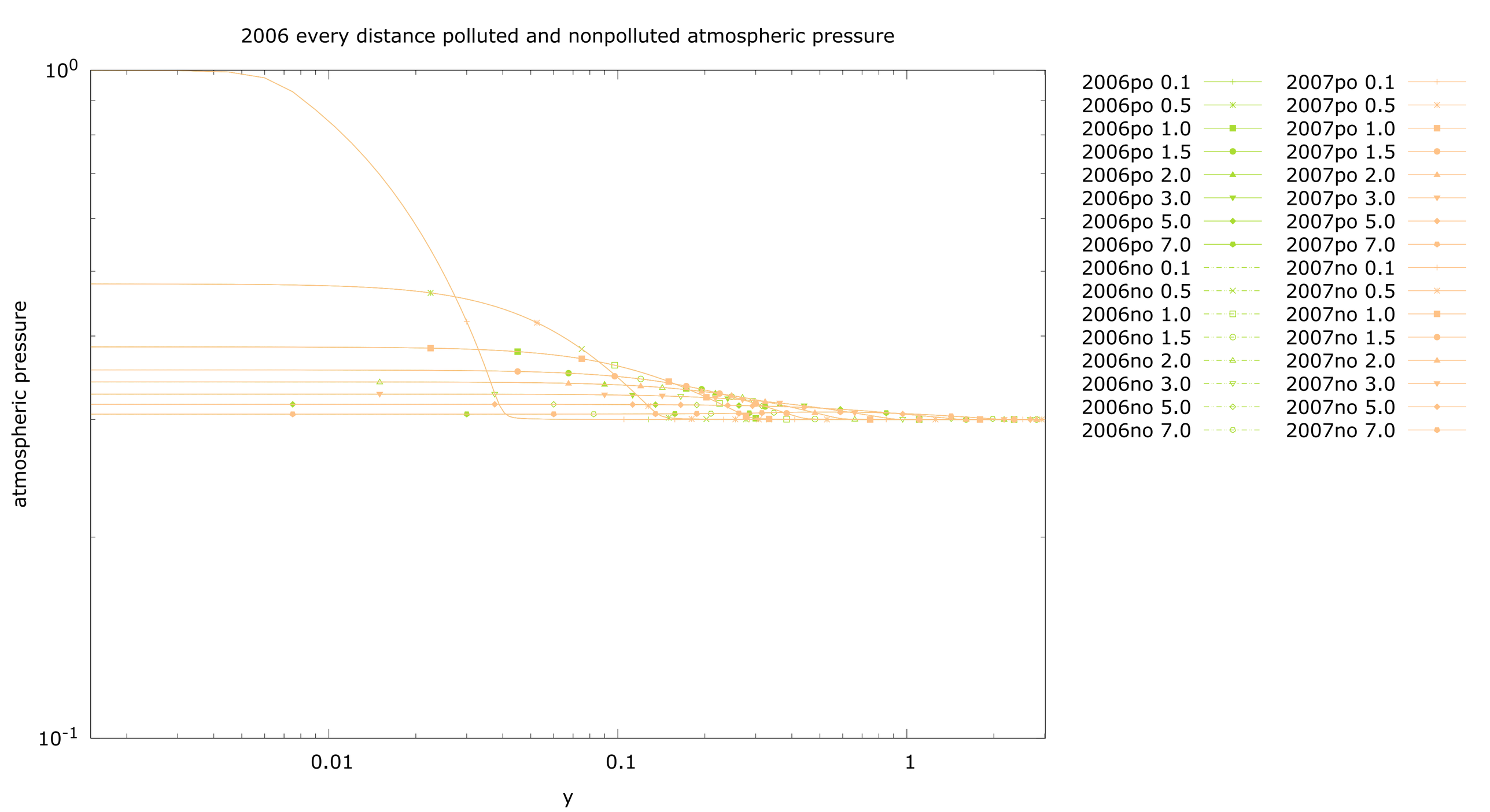
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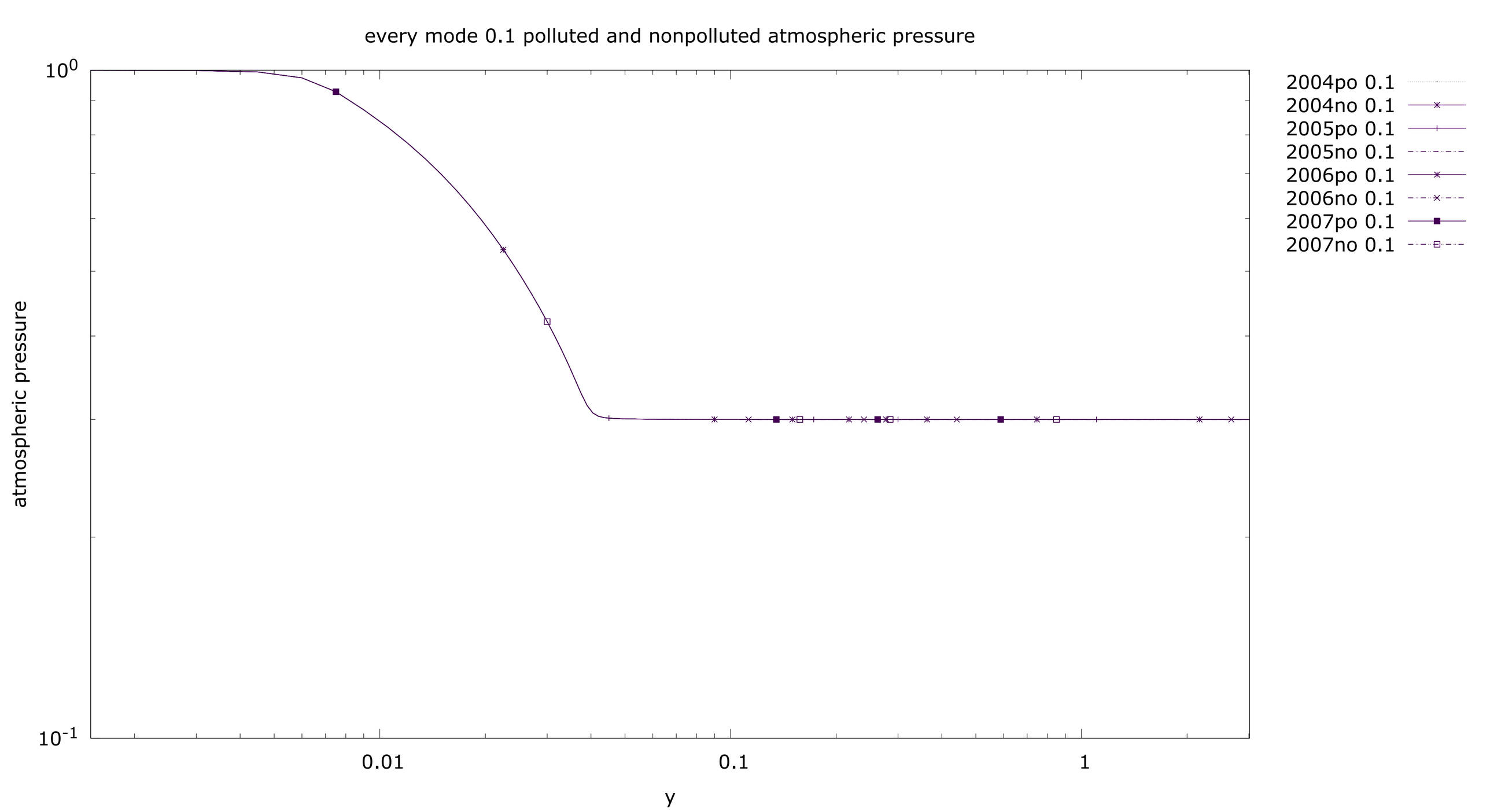
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10^{-1}
atmospheric pressure
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0.1
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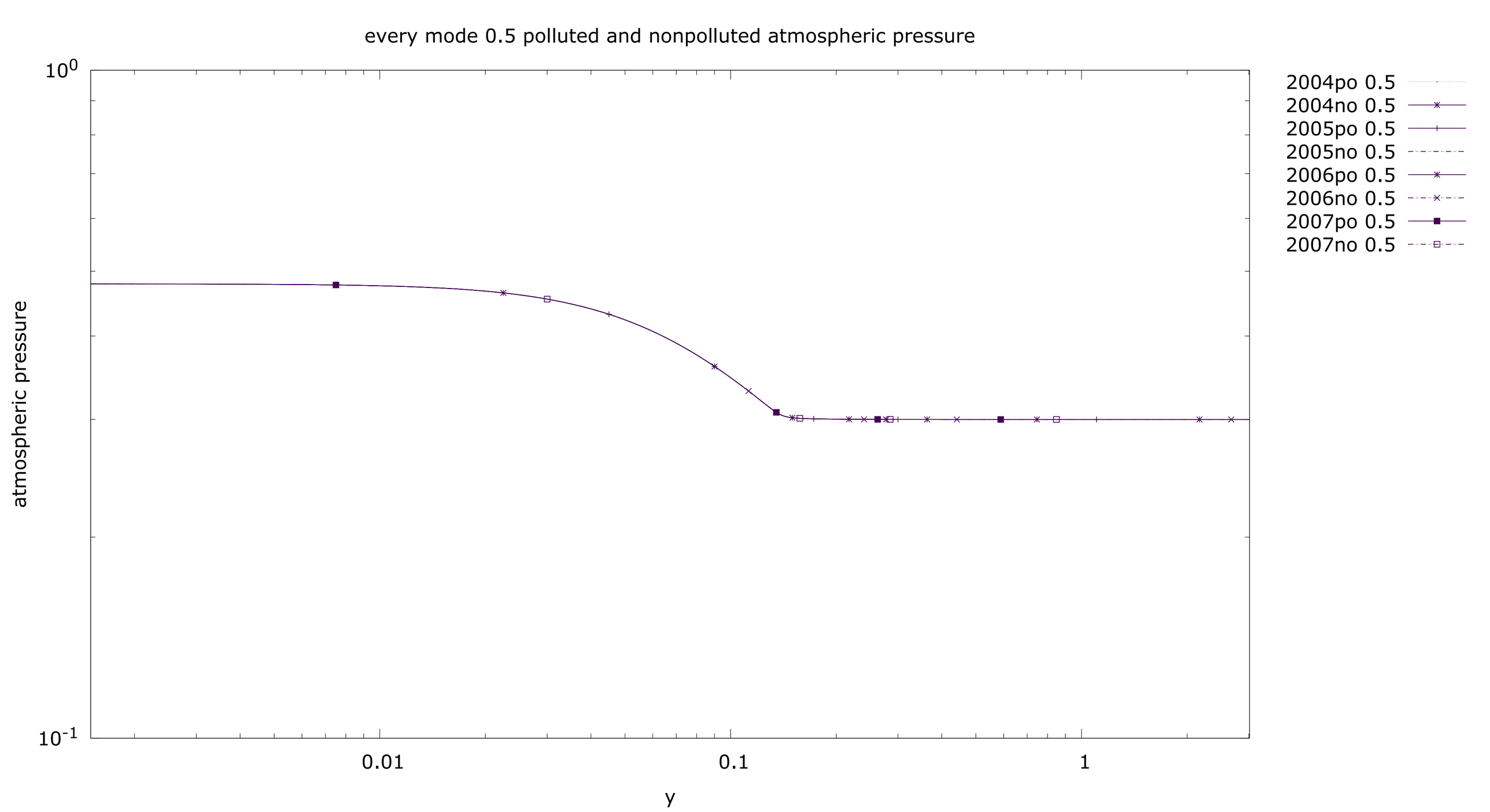
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10^{-1}
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0.1
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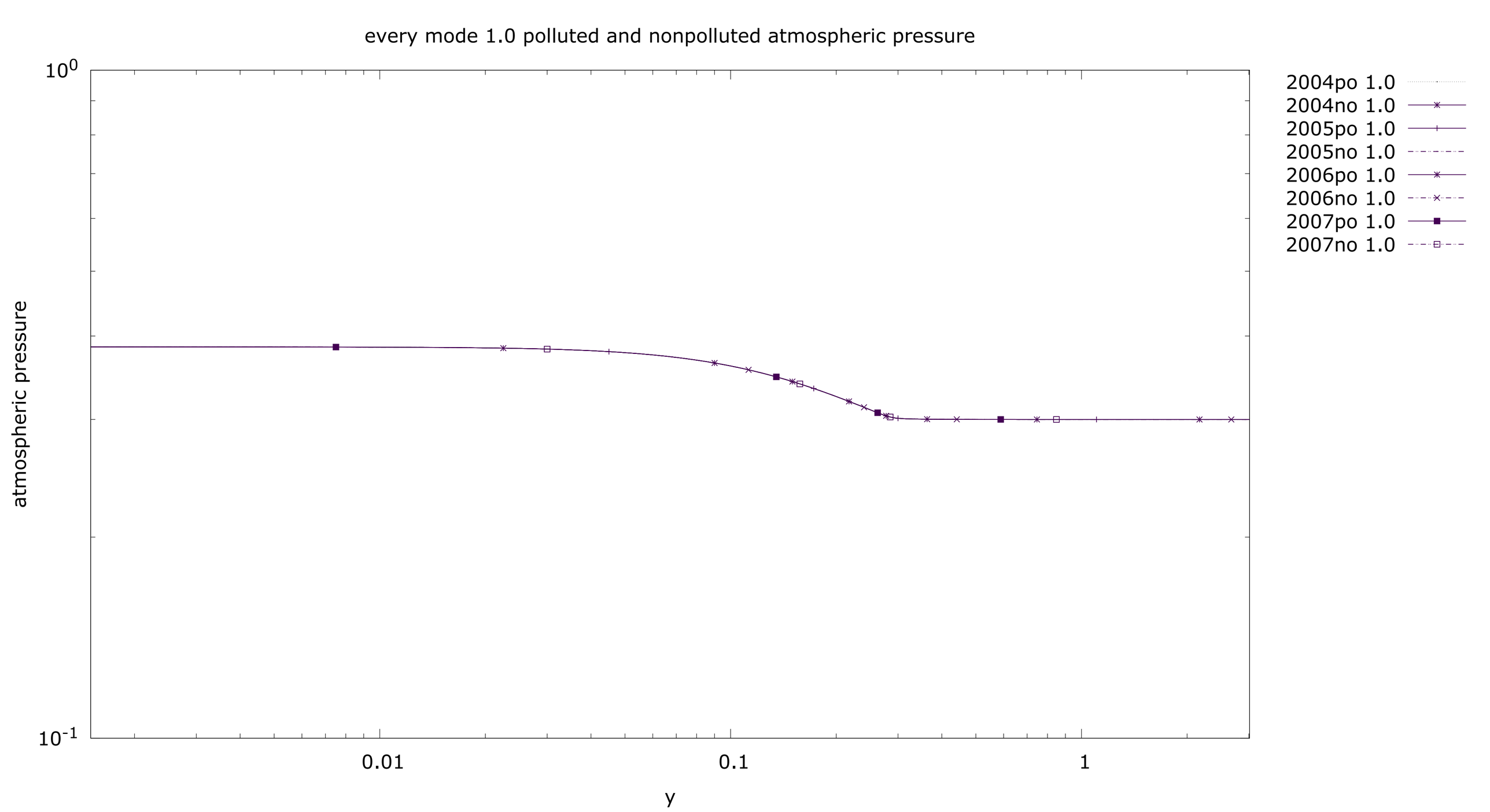
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10^{-1}
atmospheric pressure
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0.1
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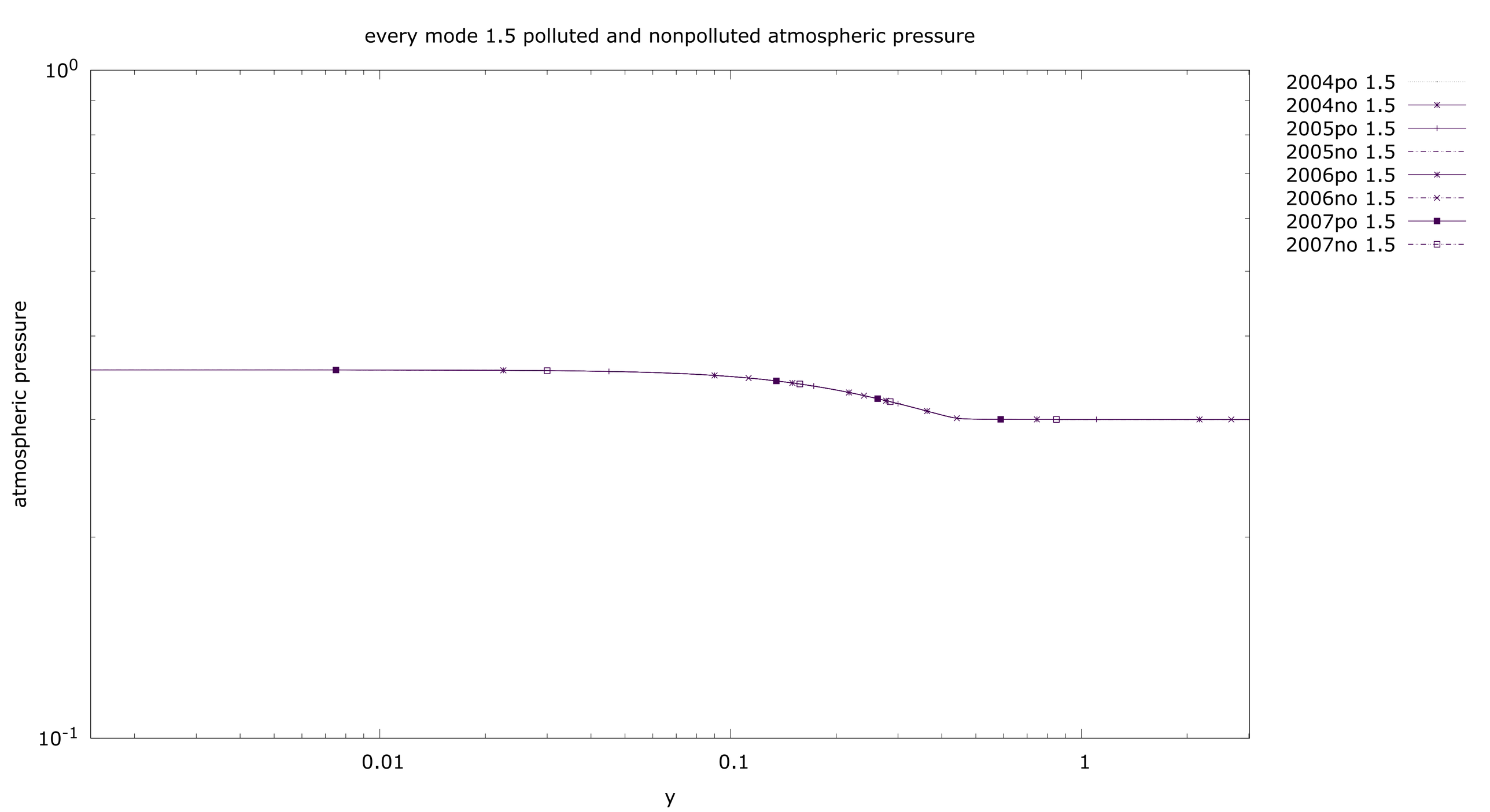
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10^0
10^{-1}
atmospheric pressure
0.01
0.1
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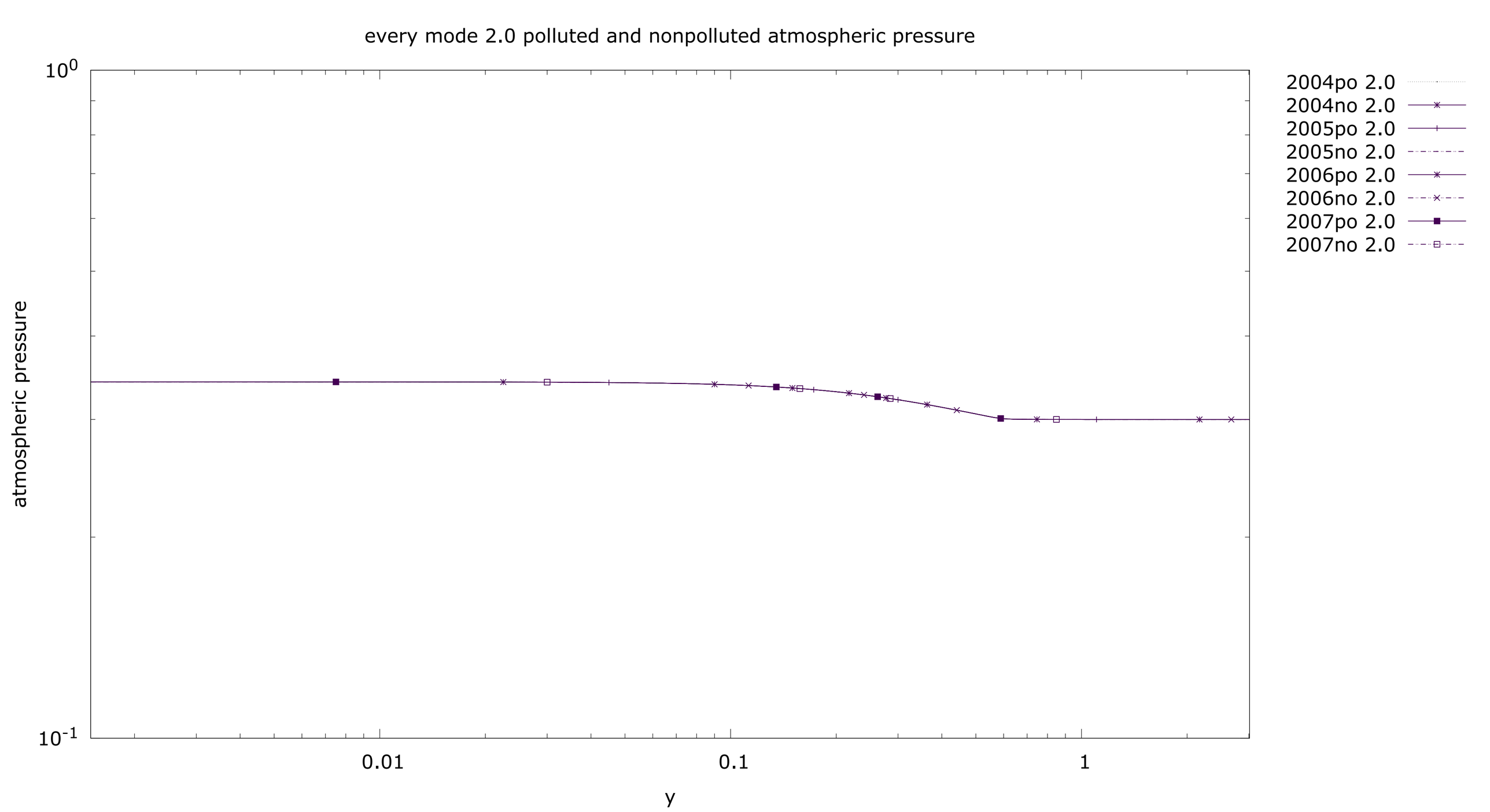
2007no 1.5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10^0
10^{-1}
atmospheric pressure
0.01
0.1
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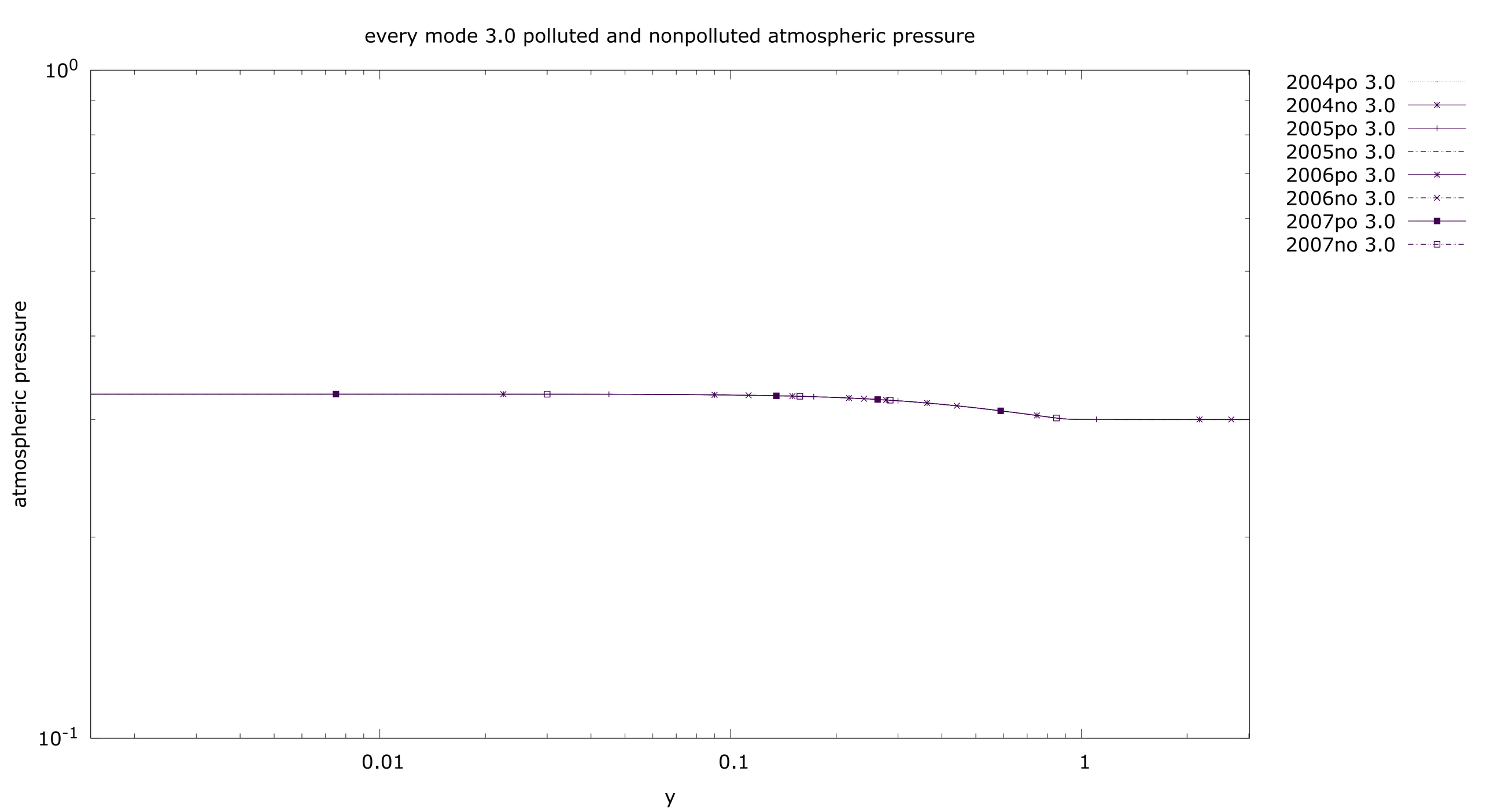
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10^0
10^{-1}
atmospheric pressure
0.01
0.1
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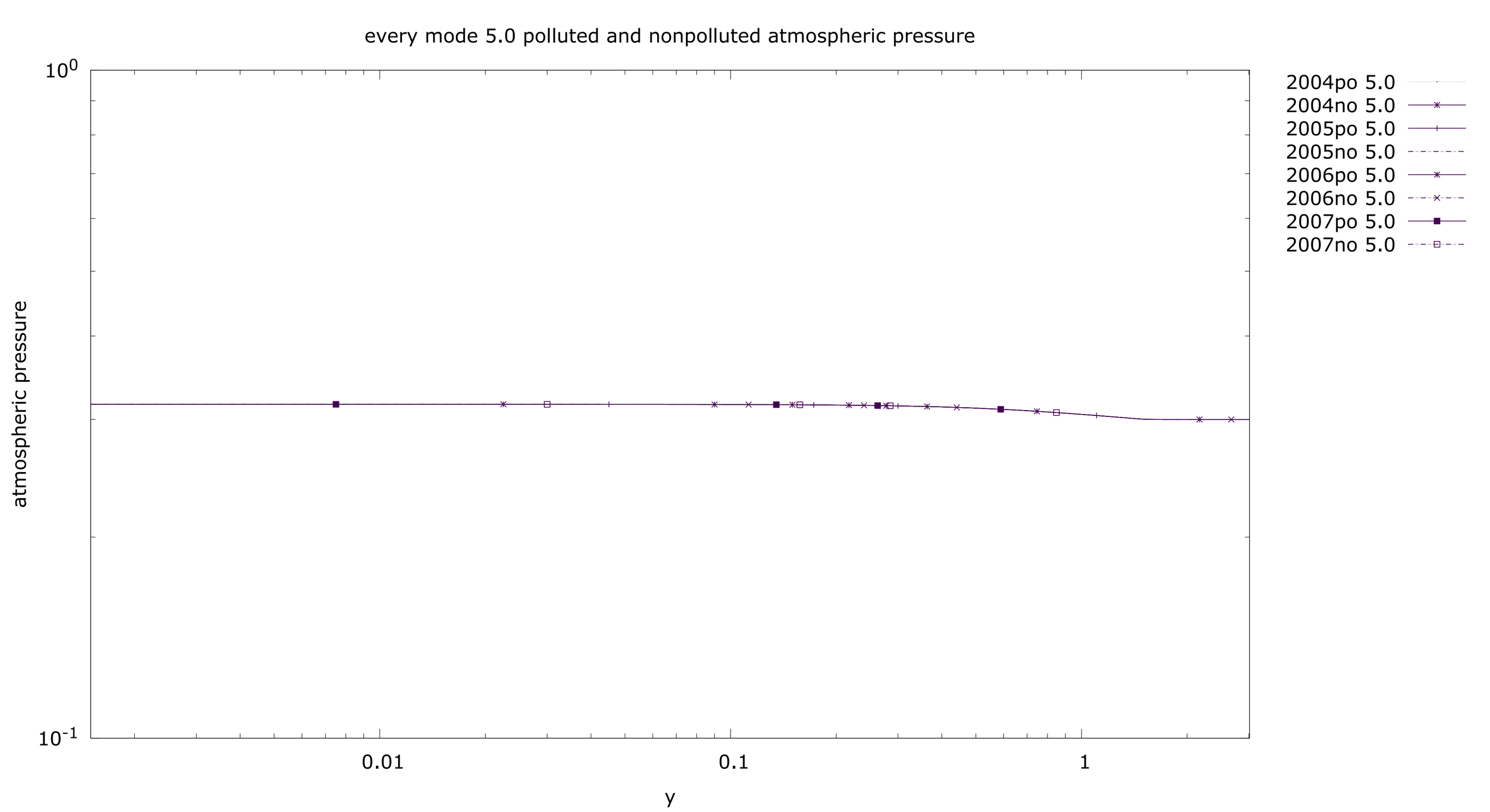
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10^0
10^{-1}
atmospheric pressure
0.01
0.1
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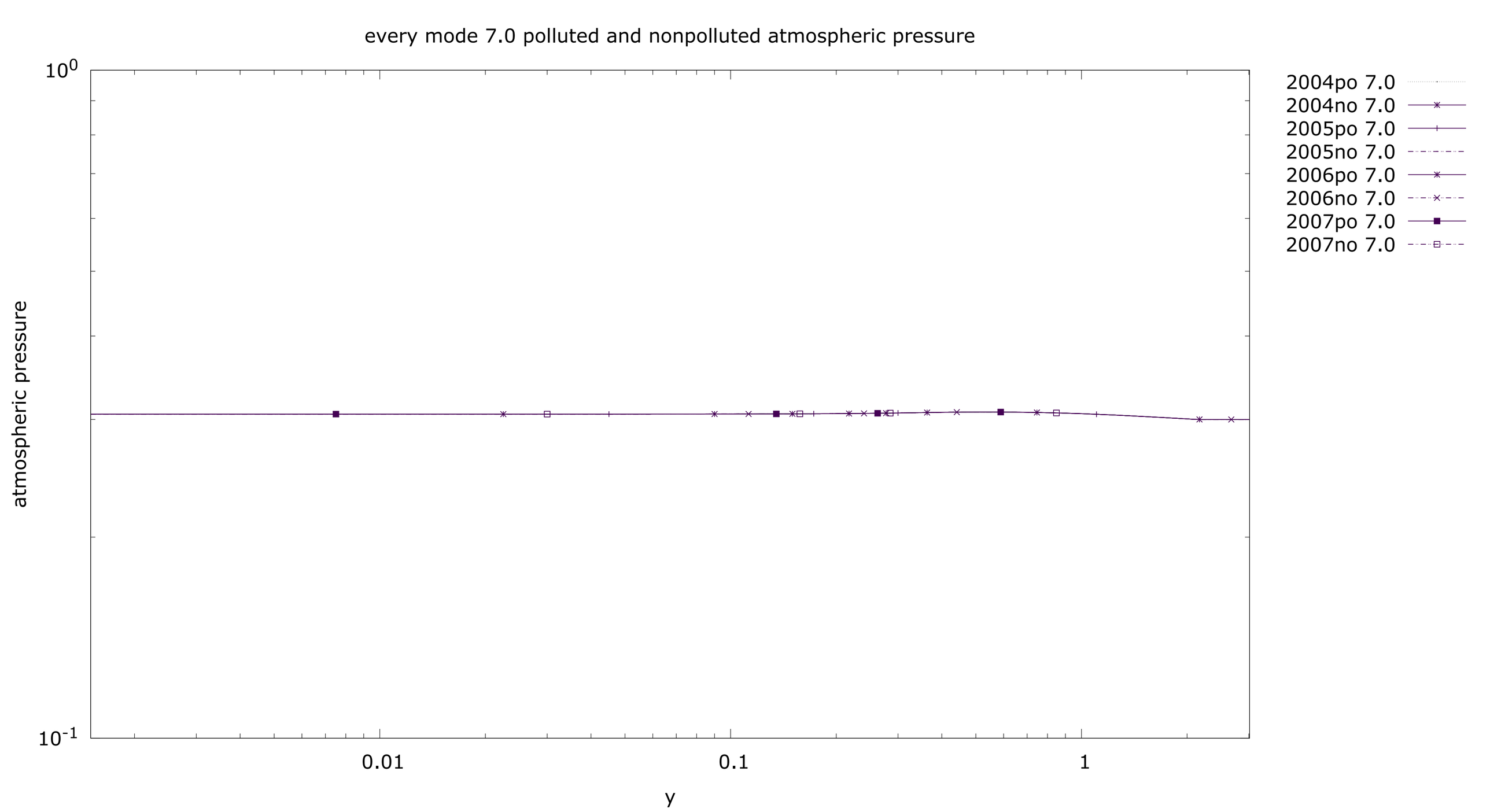
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atmospheric pressure
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0.1
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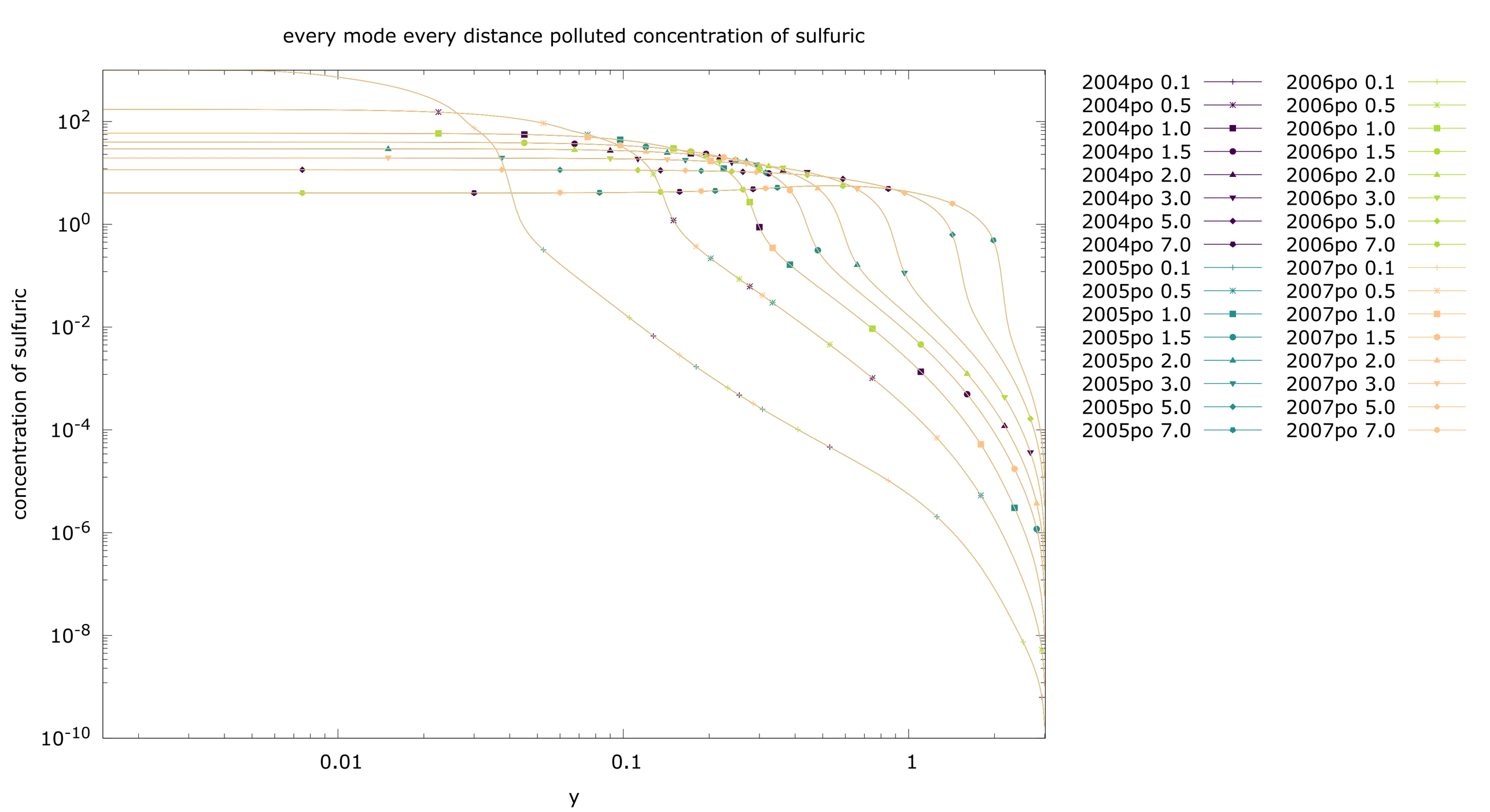
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concentration of sulfuric
y
10^{2}
10^{0}
10^{-2}
10^{-4}
10^{-6}
10^{-8}
10^{-10}
0.01
0.1
1
2004po 0.1
2004po 0.5
2004po 1.0
2004po 1.5
2004po 2.0
2004po 3.0
2004po 5.0
2004po 7.0
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2005po 0.5
2005po 1.0
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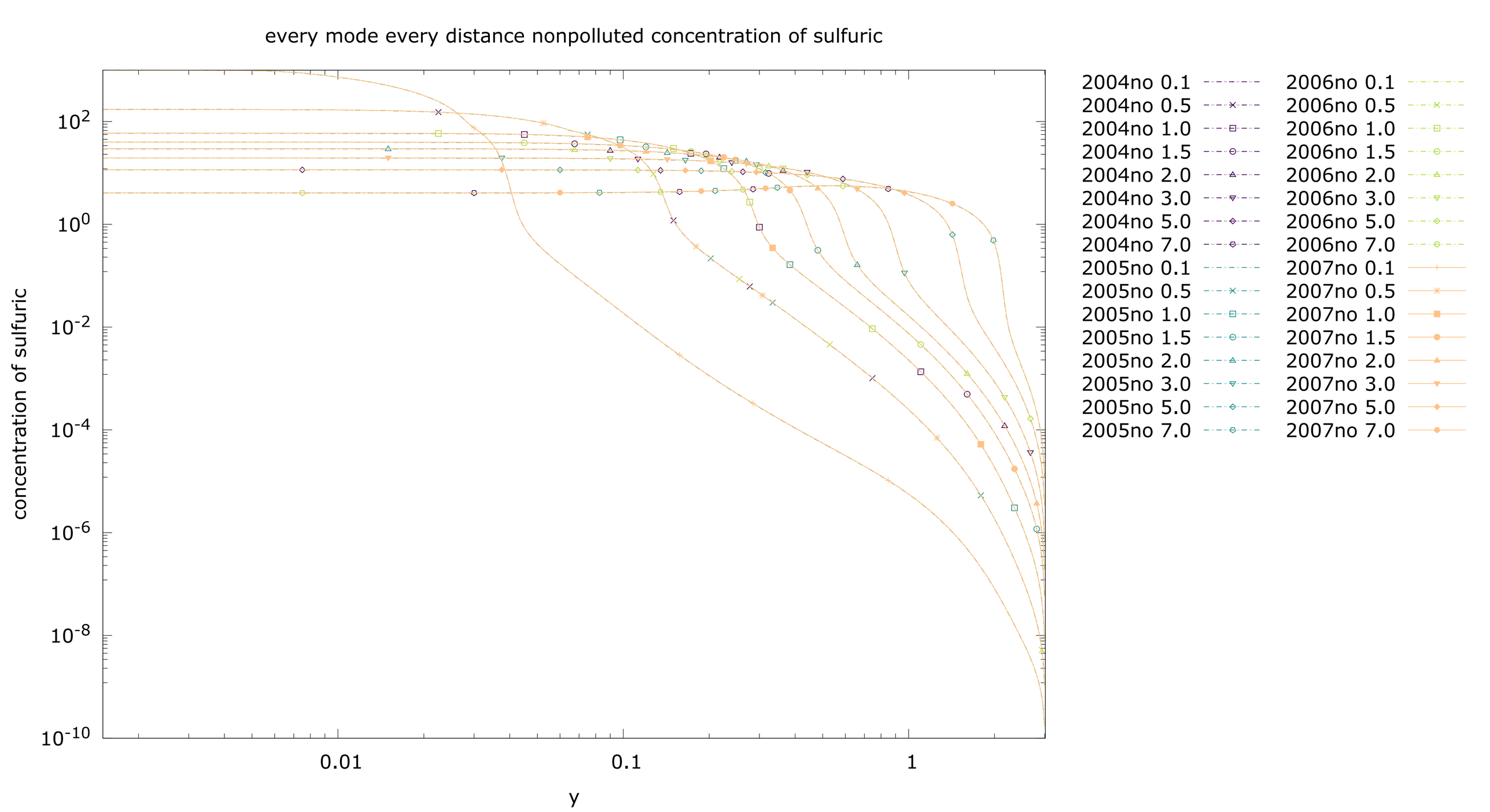
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concentration of sulfuric
y
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10^{0}
10^{-2}
10^{-4}
10^{-6}
10^{-8}
10^{-10}
0.01
0.1
1
2004no 0.1
2004no 0.5
2004no 1.0
2004no 1.5
2004no 2.0
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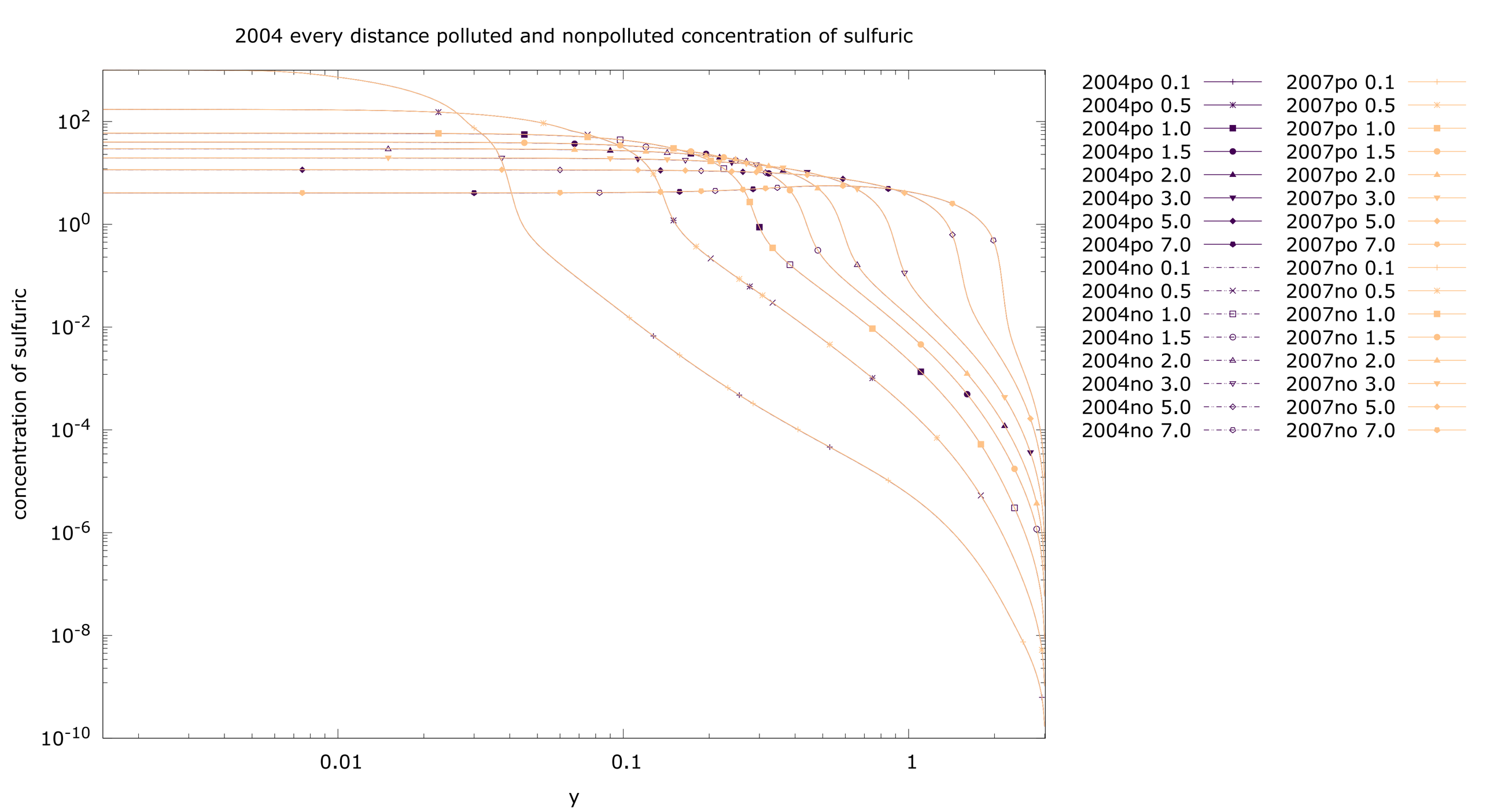
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concentration of sulfuric
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10^{0}
10^{-2}
10^{-4}
10^{-6}
10^{-8}
10^{-10}
0.01
0.1
1
2004po 0.1
2004po 0.5
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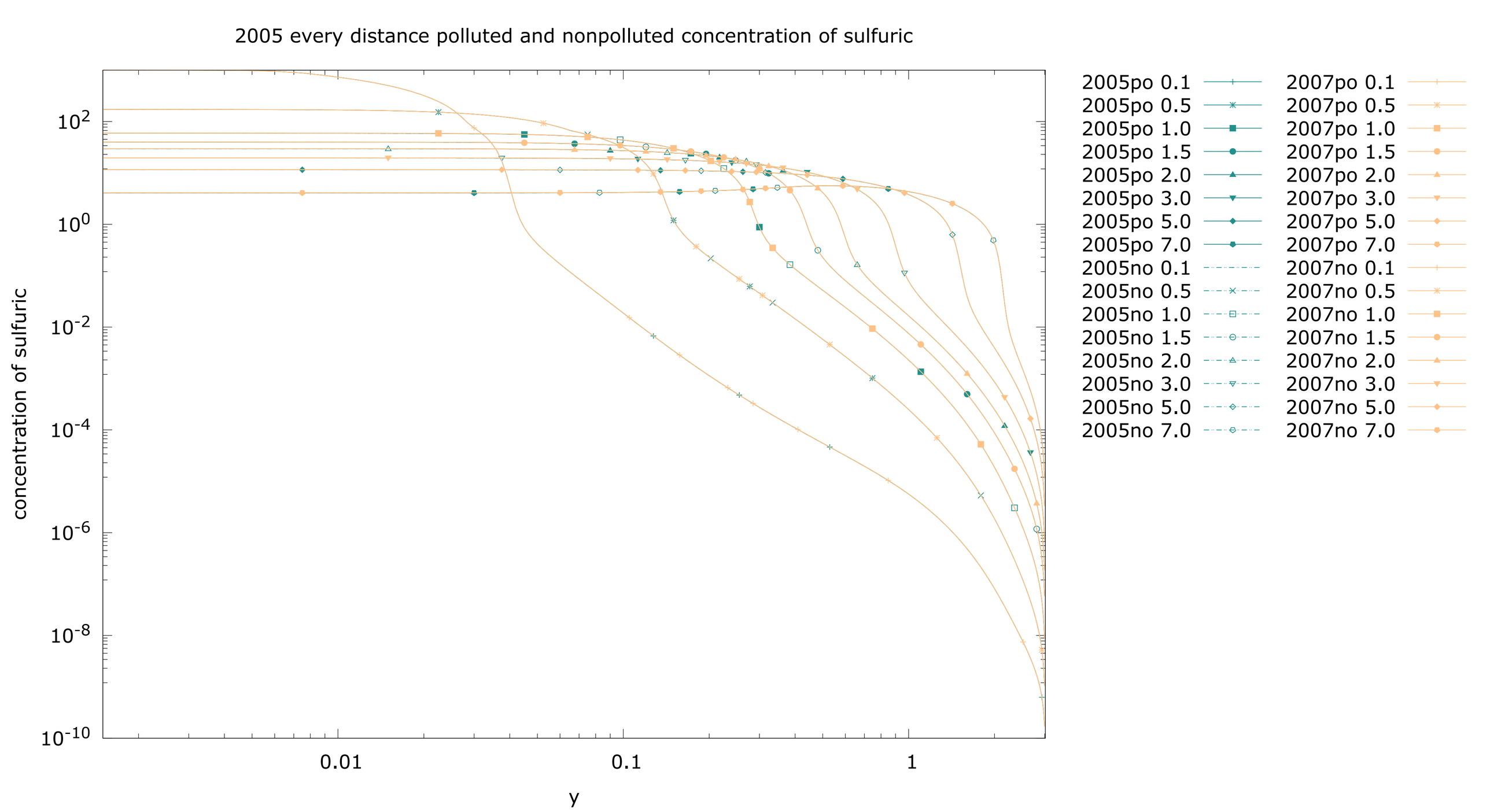
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concentration of sulfuric
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10^{-2}
10^{-4}
10^{-6}
10^{-8}
10^{-10}
0.01
0.1
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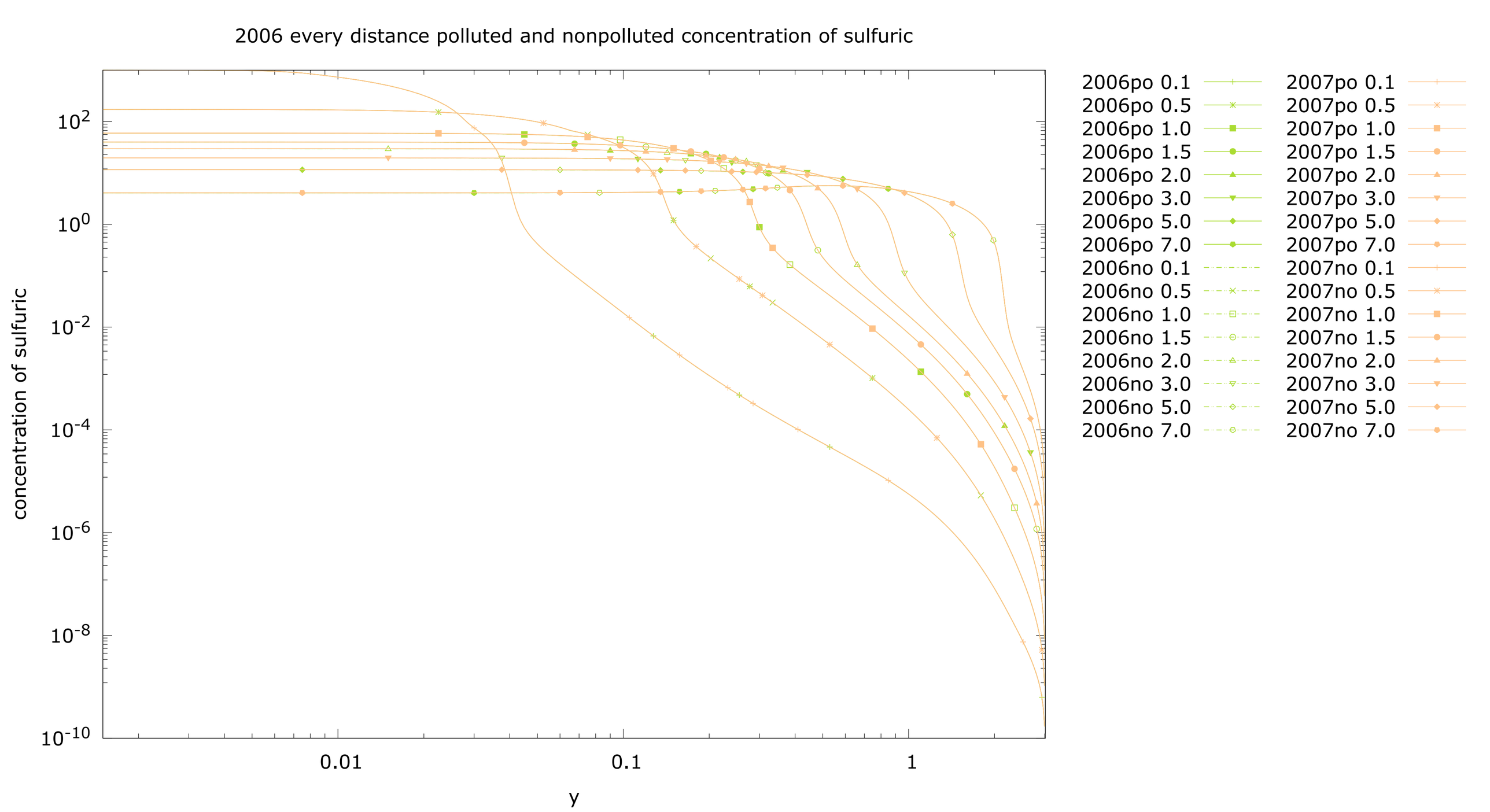
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concentration of sulfuric
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10^{-2}
10^{-4}
10^{-6}
10^{-8}
10^{-10}
0.01
0.1
1
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2006po 0.5
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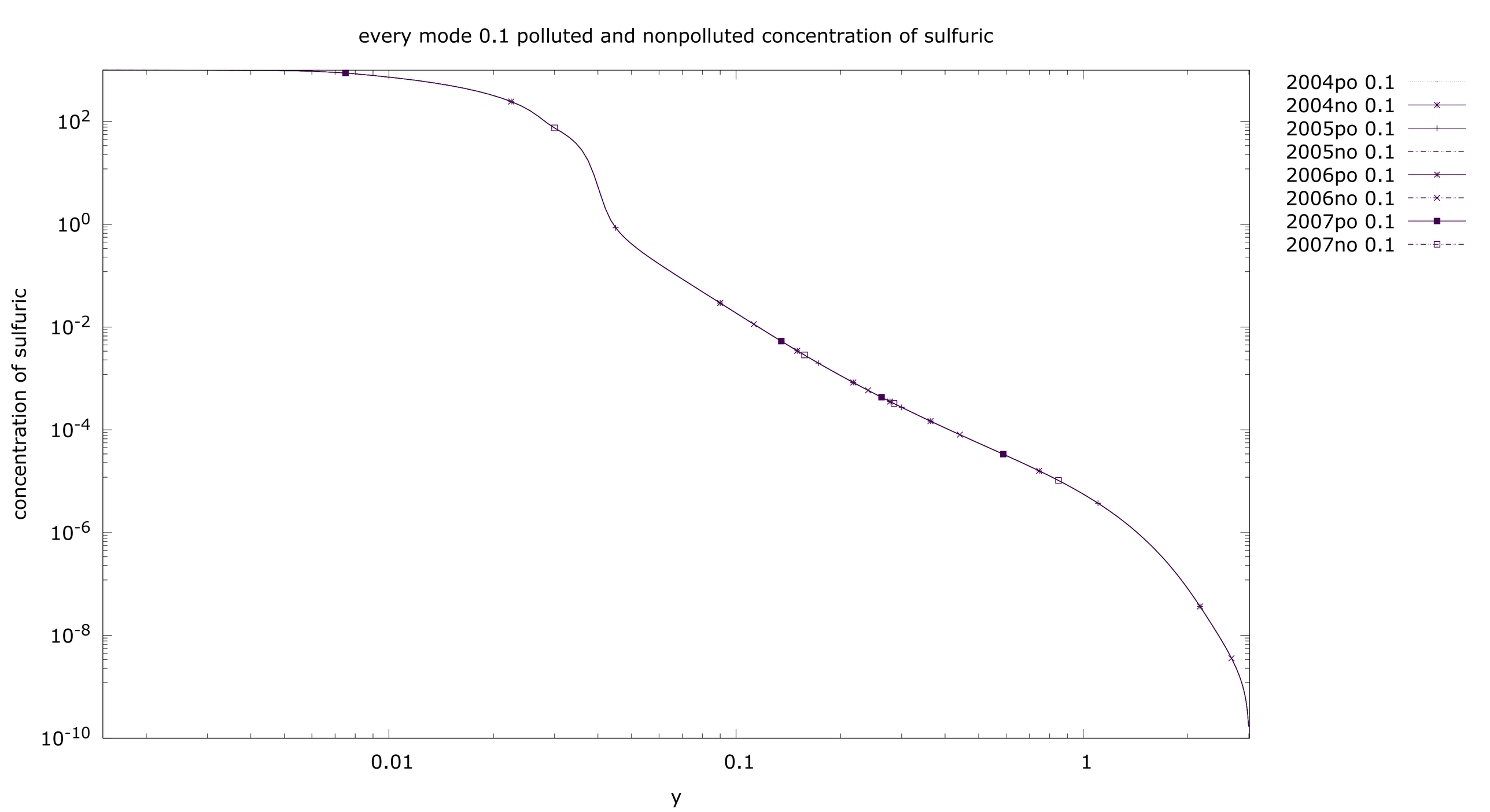
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concentration of sulfuric
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10^{0}
10^{-2}
10^{-4}
10^{-6}
10^{-8}
10^{-10}
0.01
0.1
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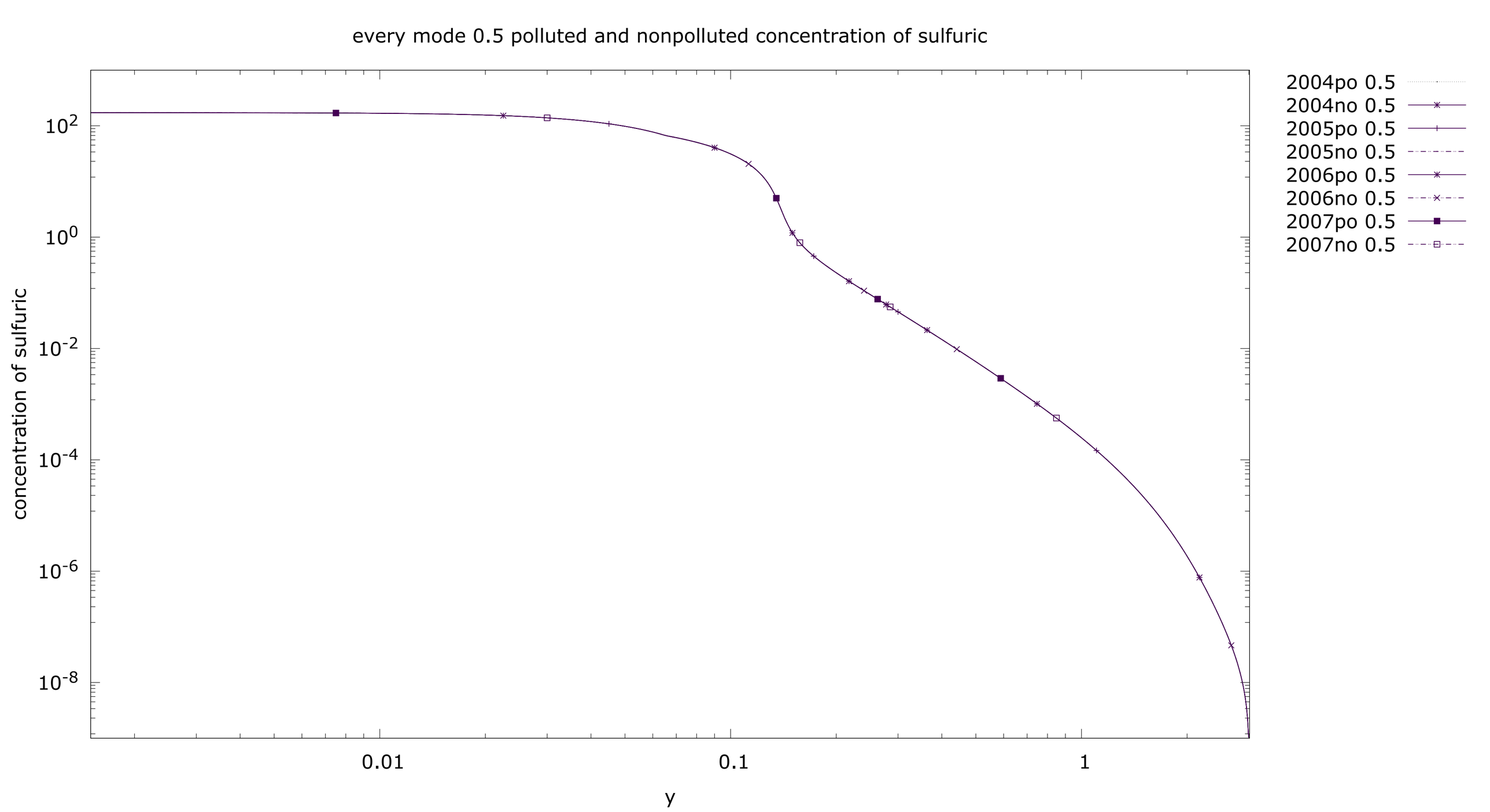
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10^{-2}
10^{-4}
10^{-6}
10^{-8}
0.01
0.1
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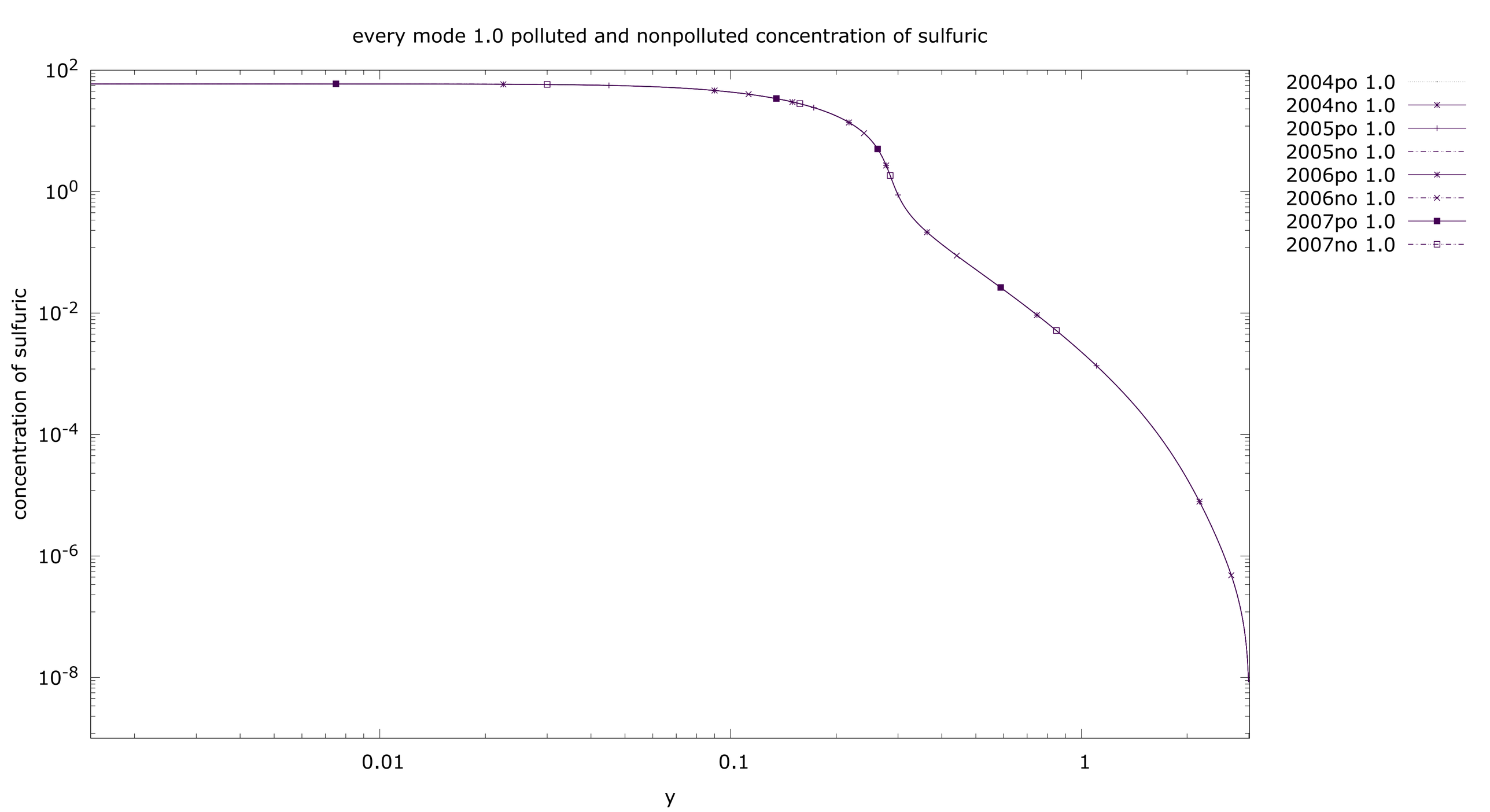
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concentration of sulfuric
y
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10^{0}
10^{-2}
10^{-4}
10^{-6}
10^{-8}
0.01
0.1
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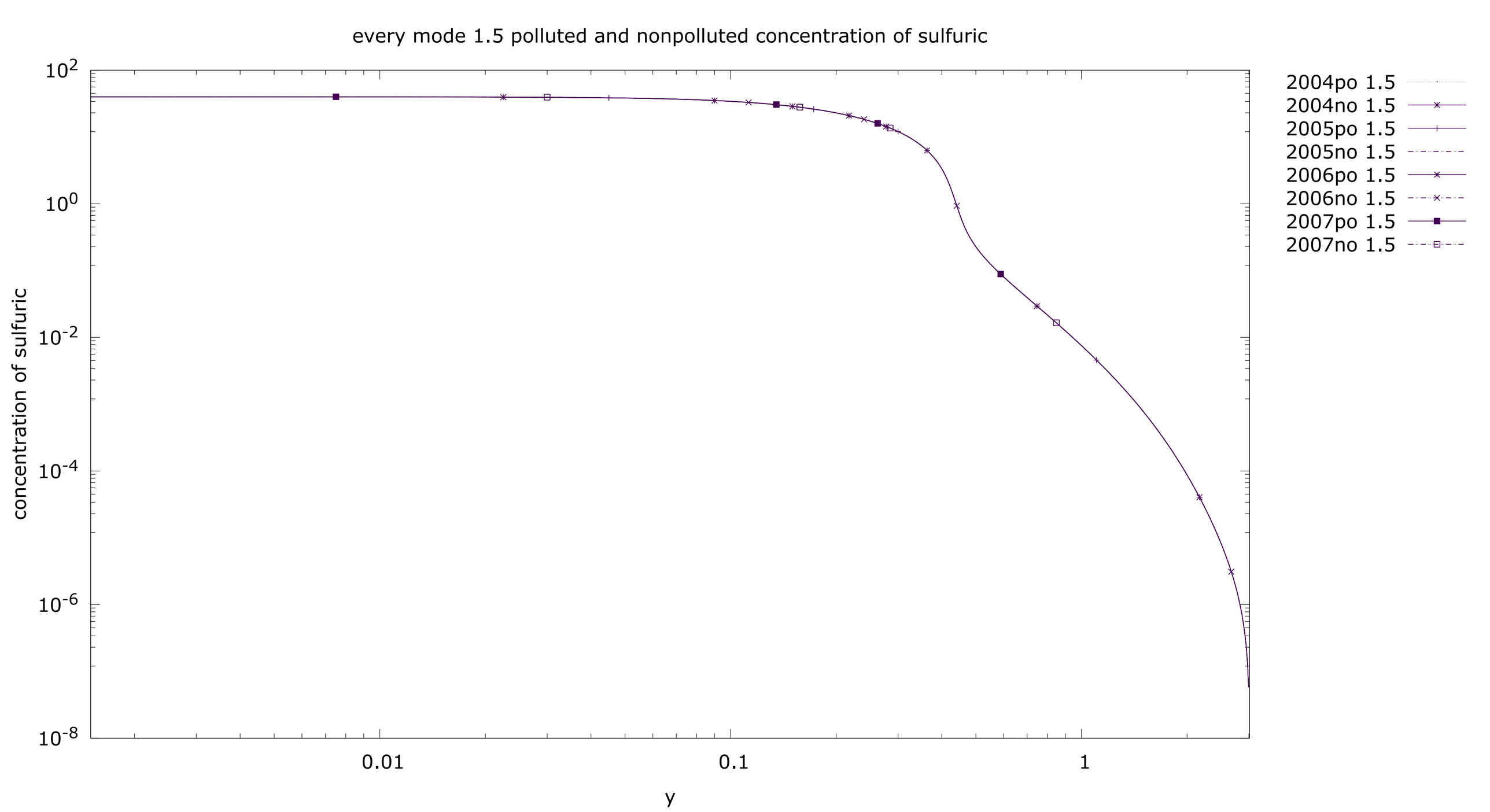
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concentration of sulfuric
y
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10^{0}
10^{-2}
10^{-4}
10^{-6}
10^{-8}
0.01
0.1
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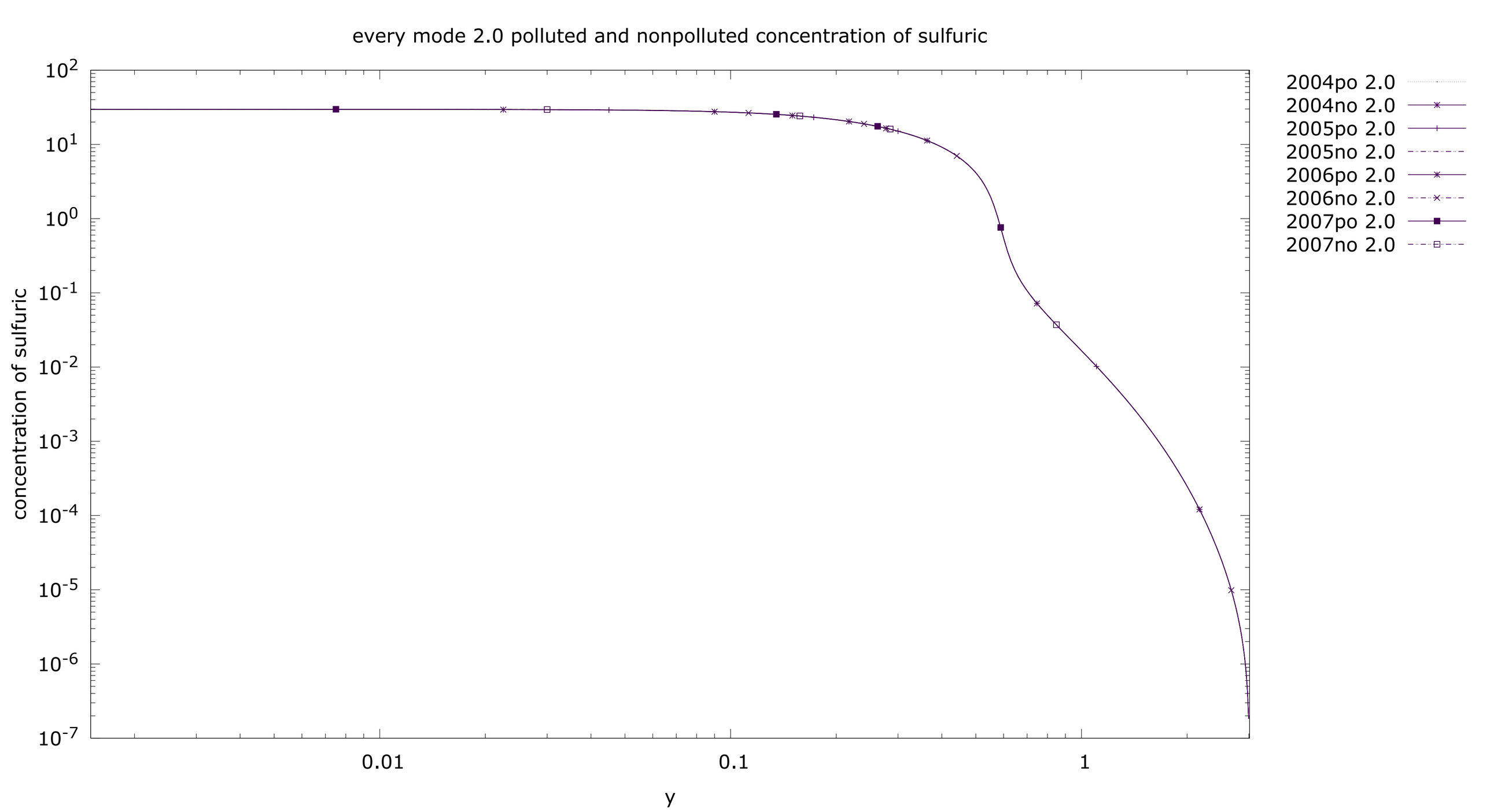
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concentration of sulfuric
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10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
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0.01
0.1
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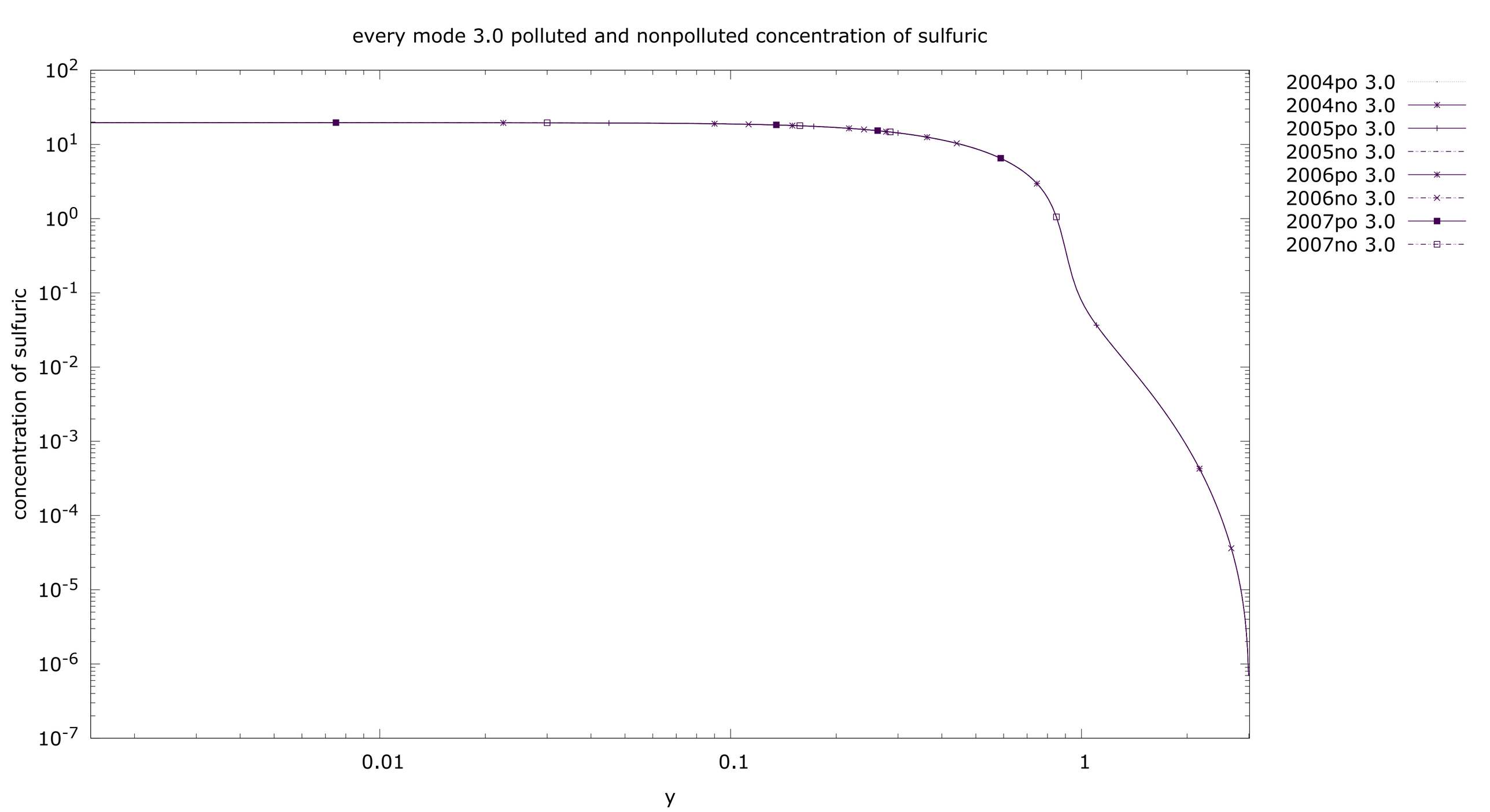
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concentration of sulfuric
y
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10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
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0.01
0.1
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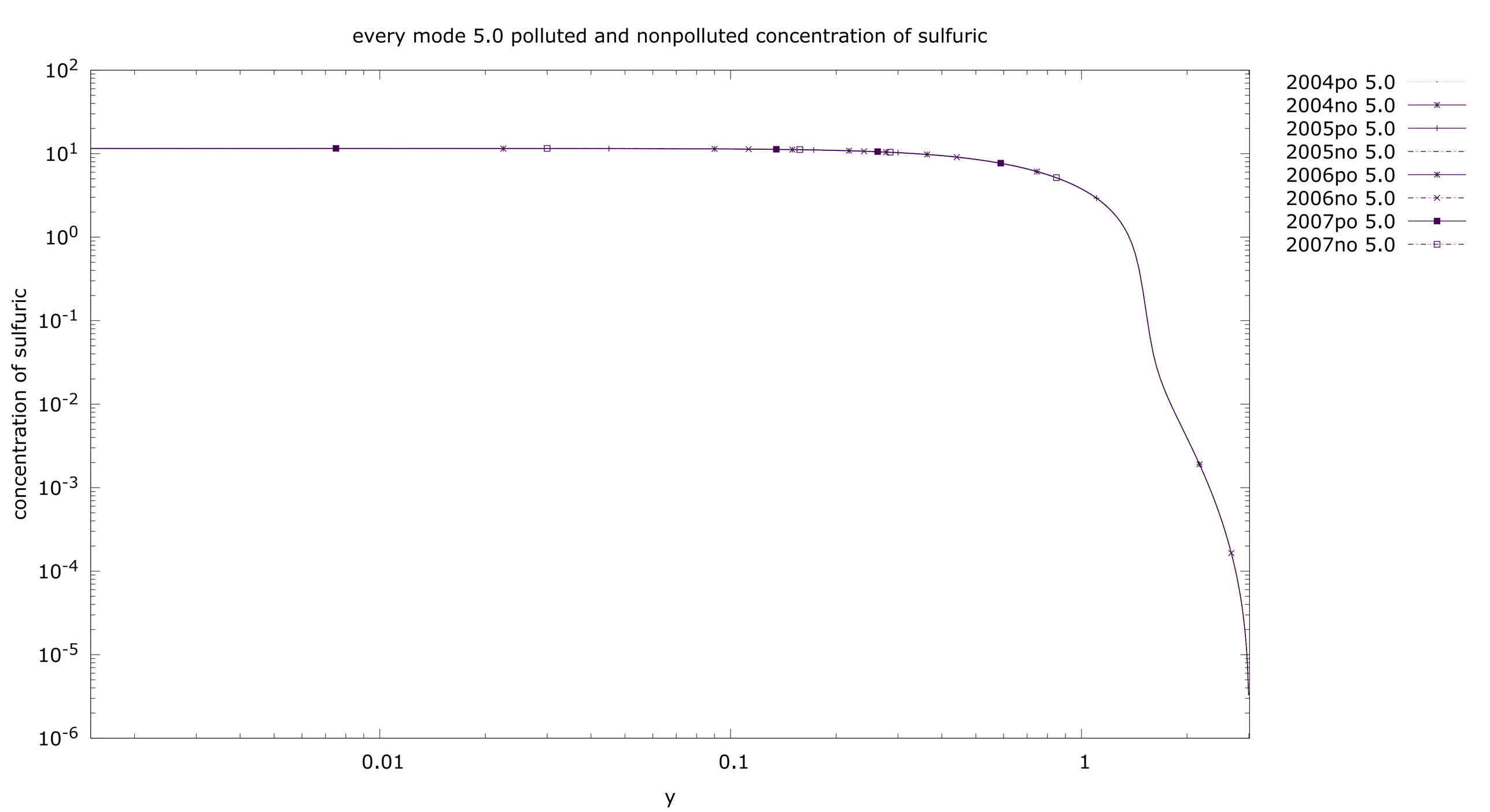
every mode 5.0 polluted and nonpolluted concentration of sulfuric
concentration of sulfuric
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10^{-1}
10^{-2}
10^{-3}
10^{-4}
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0.1
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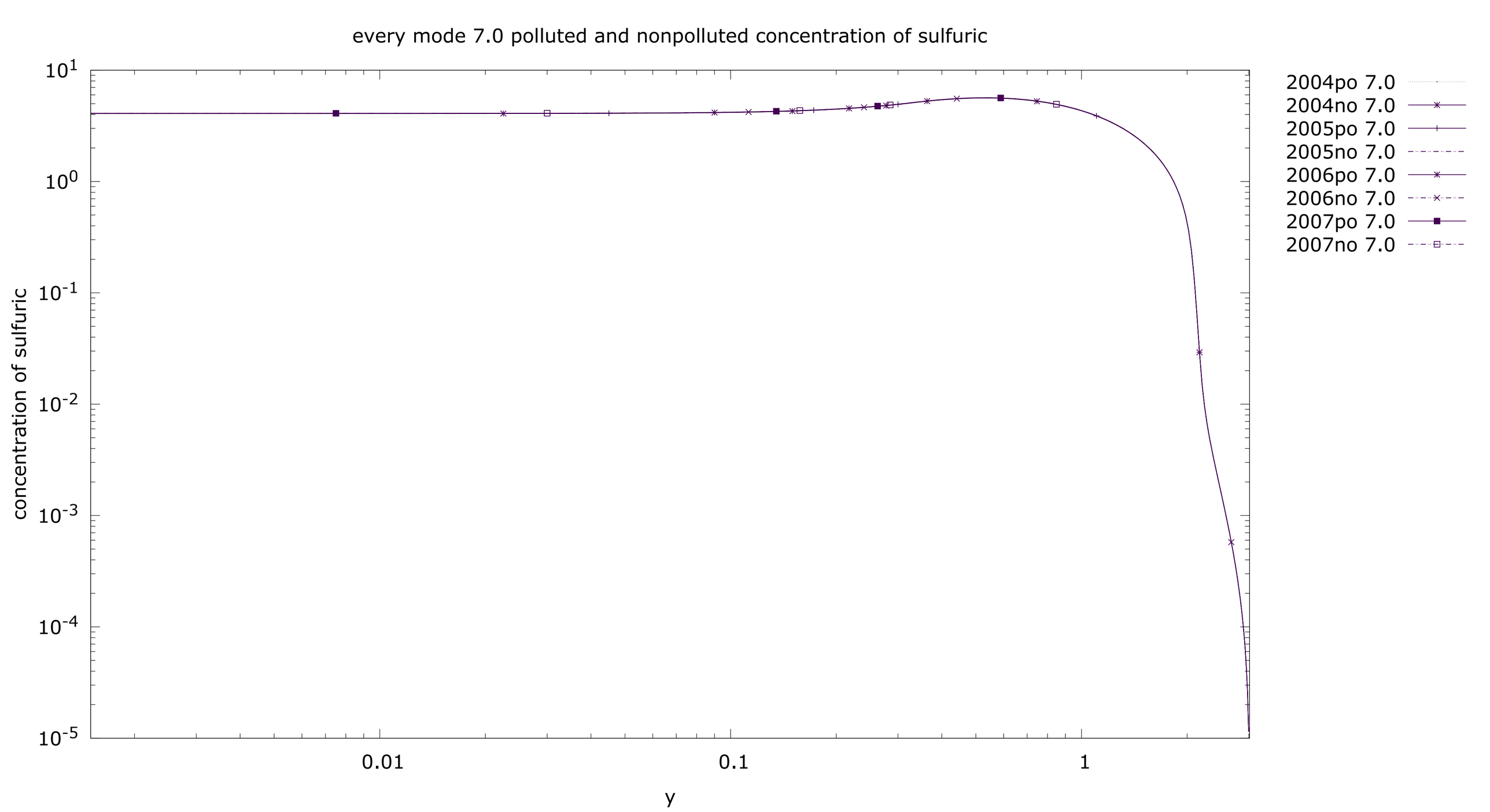
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concentration of sulfuric
y
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0.01
0.1
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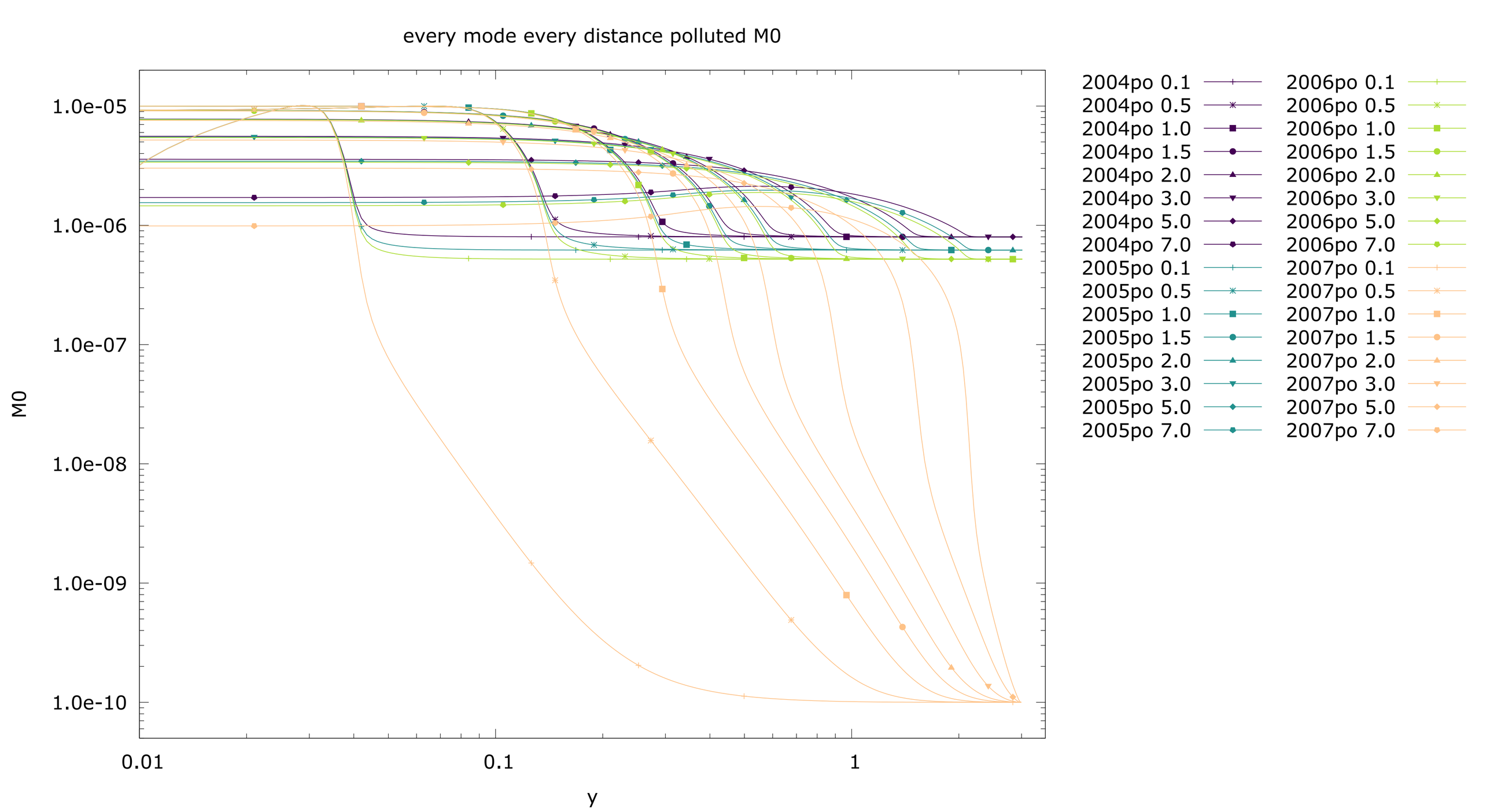
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M0
y
1.0e-05
1.0e-06
1.0e-07
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1.0e-09
1.0e-10
0.01
0.1
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2004po 1.5
2004po 2.0
2004po 3.0
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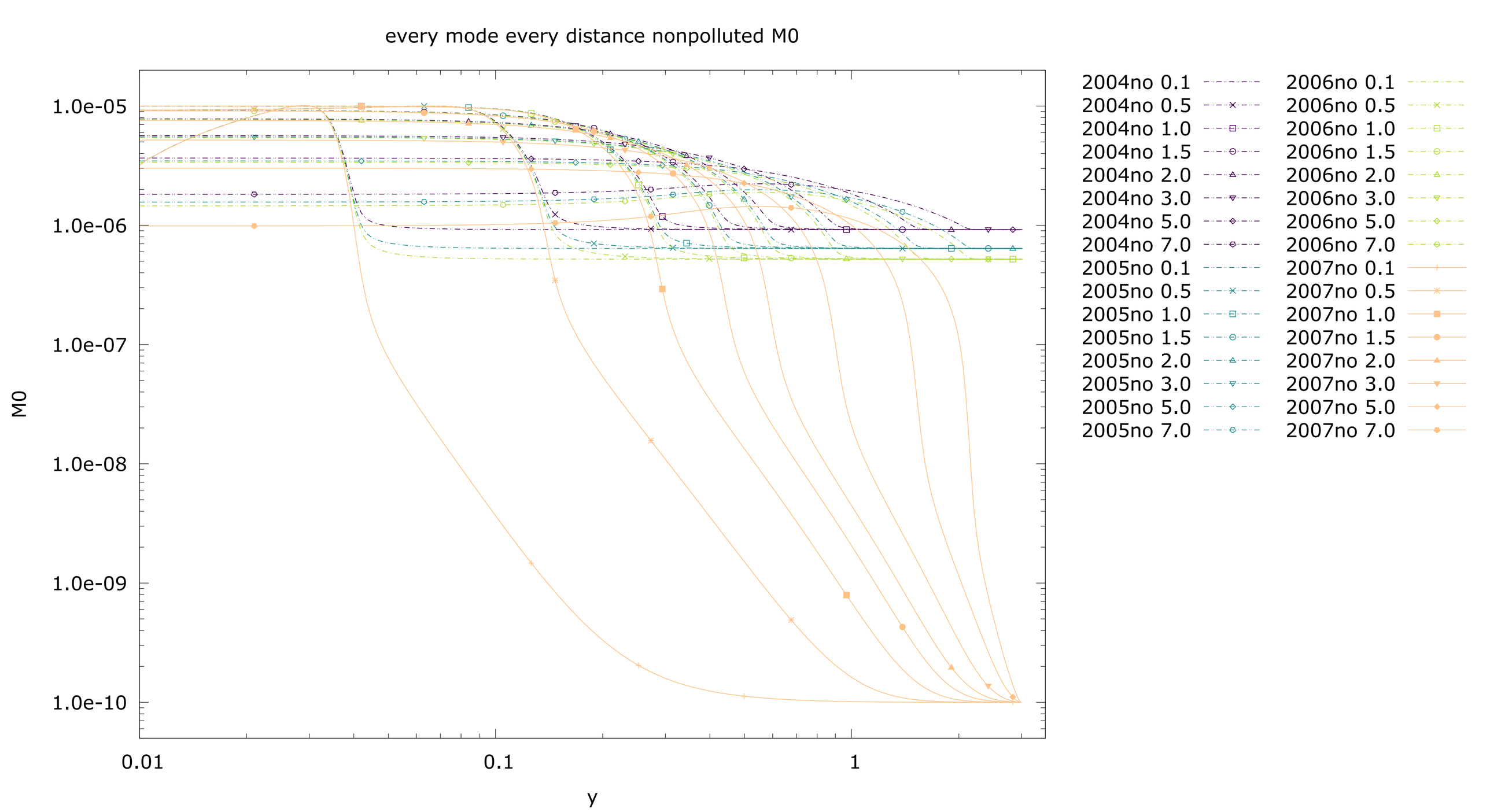
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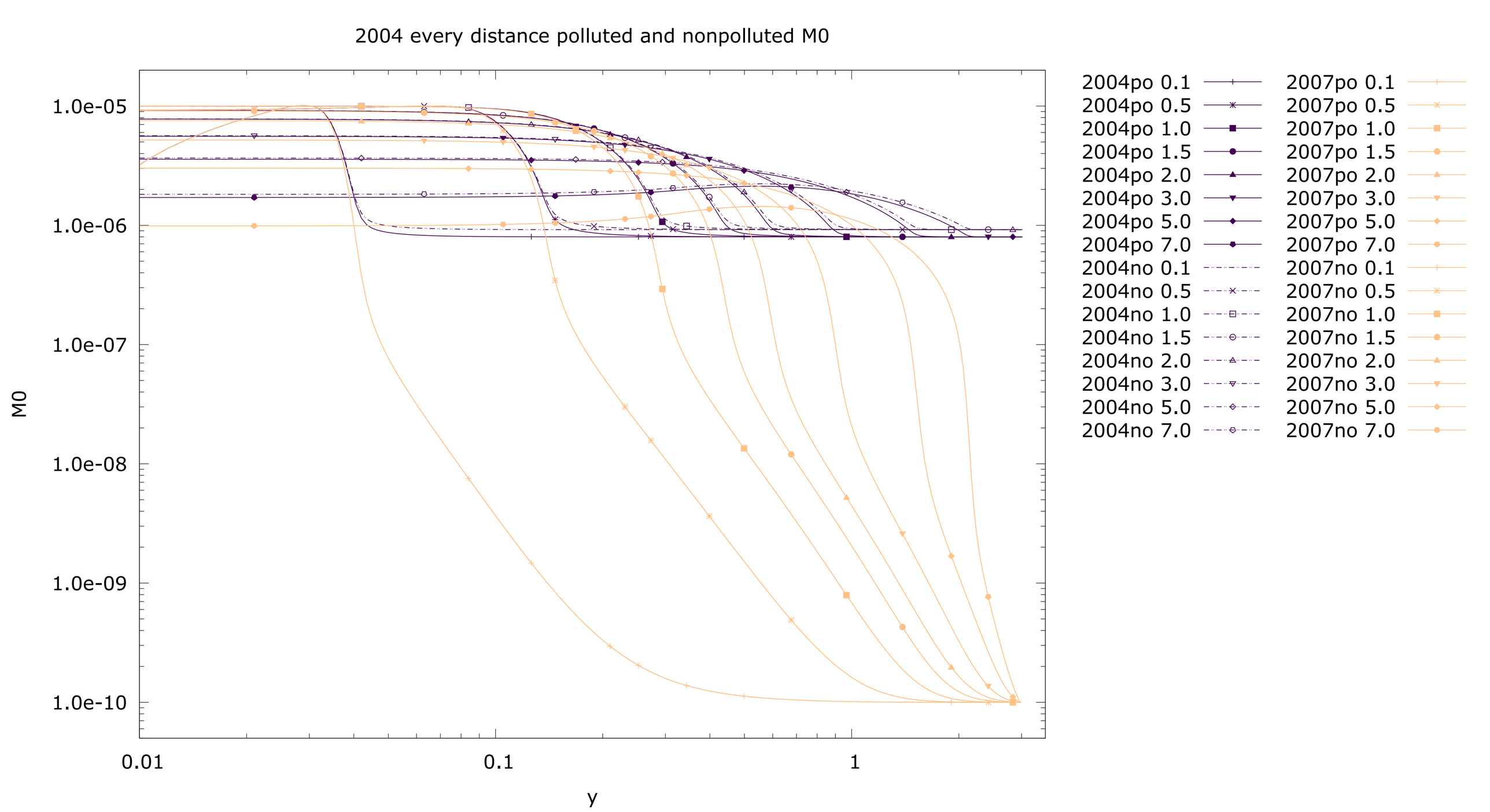
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M0
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0.1
1
y
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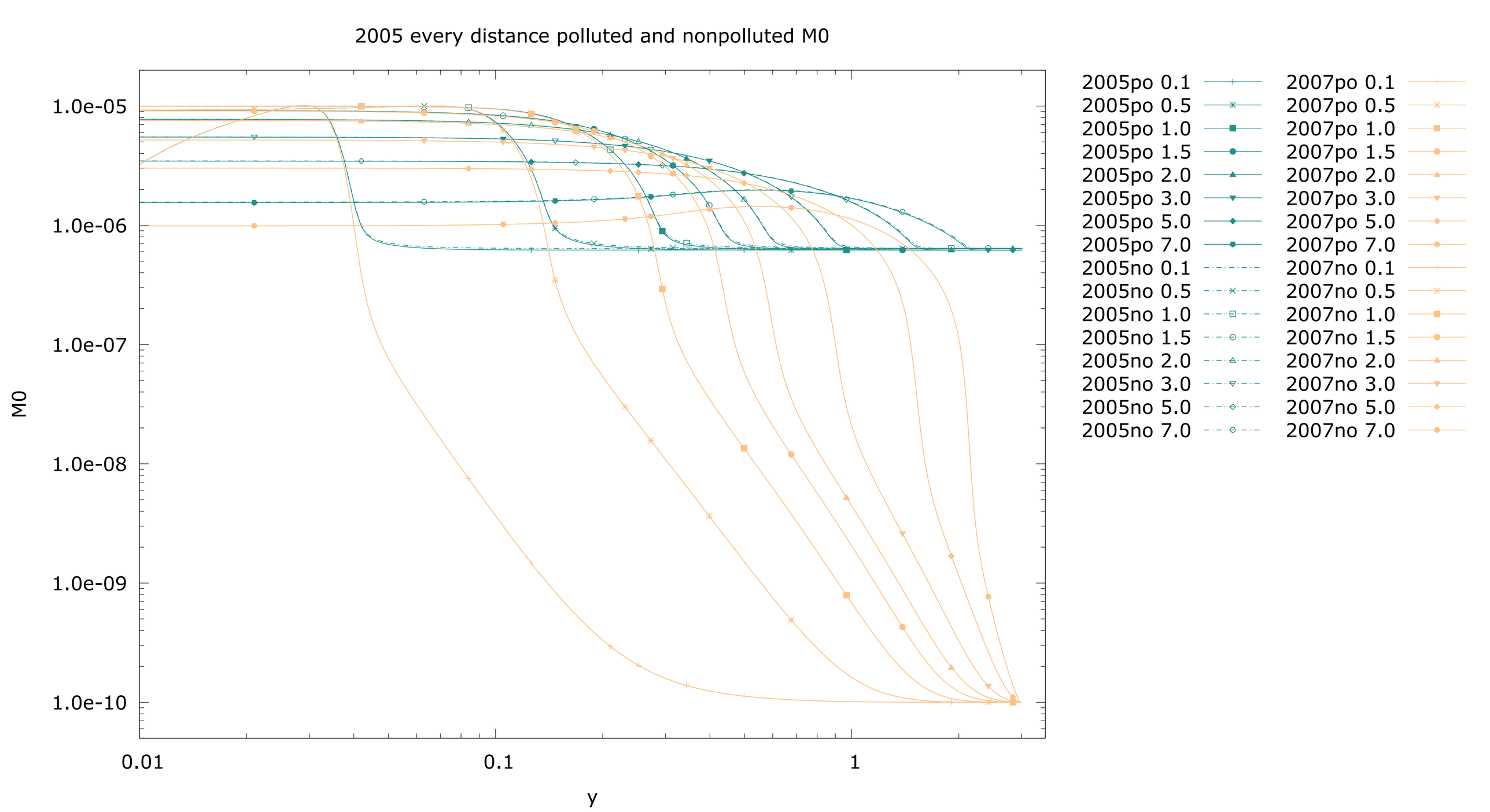
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M0
y
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0.1
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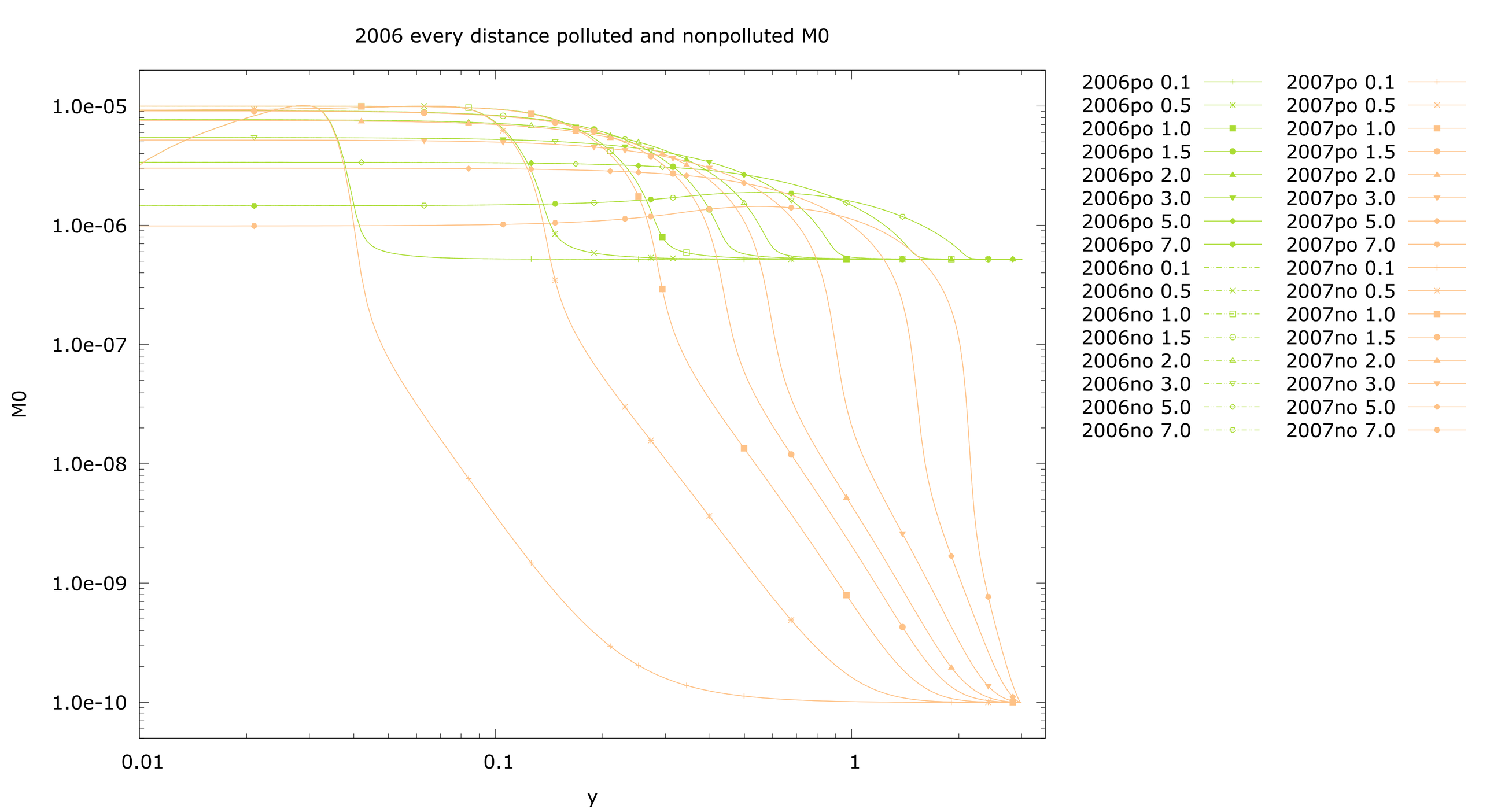
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1.0e-09
1.0e-10
M0
0.01
0.1
1
y
2006po 0.1
2006po 0.5
2006po 1.0
2006po 1.5
2006po 2.0
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2006po 5.0
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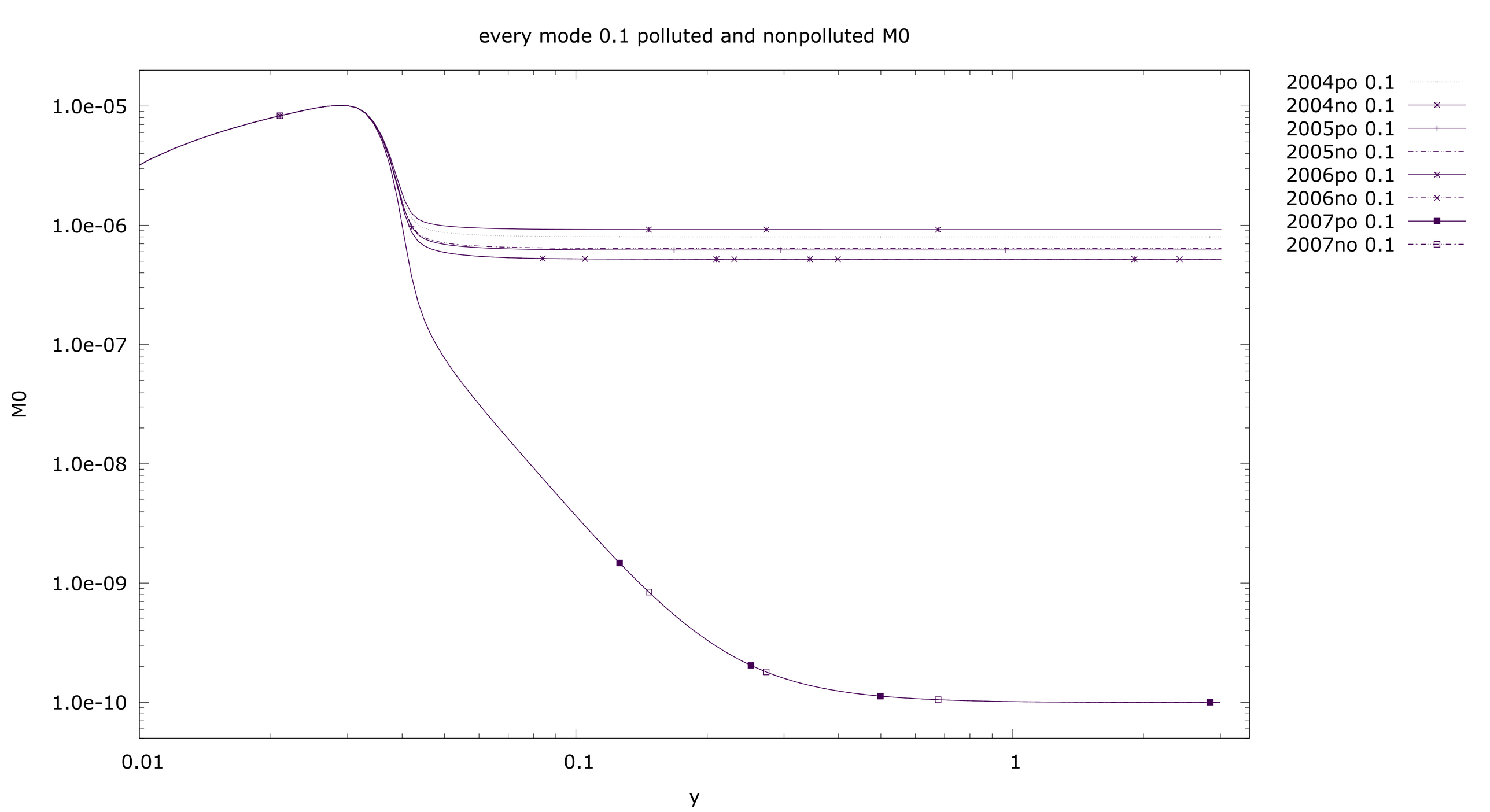
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1.0e-07
1.0e-08
1.0e-09
1.0e-10
M0
0.01
0.1
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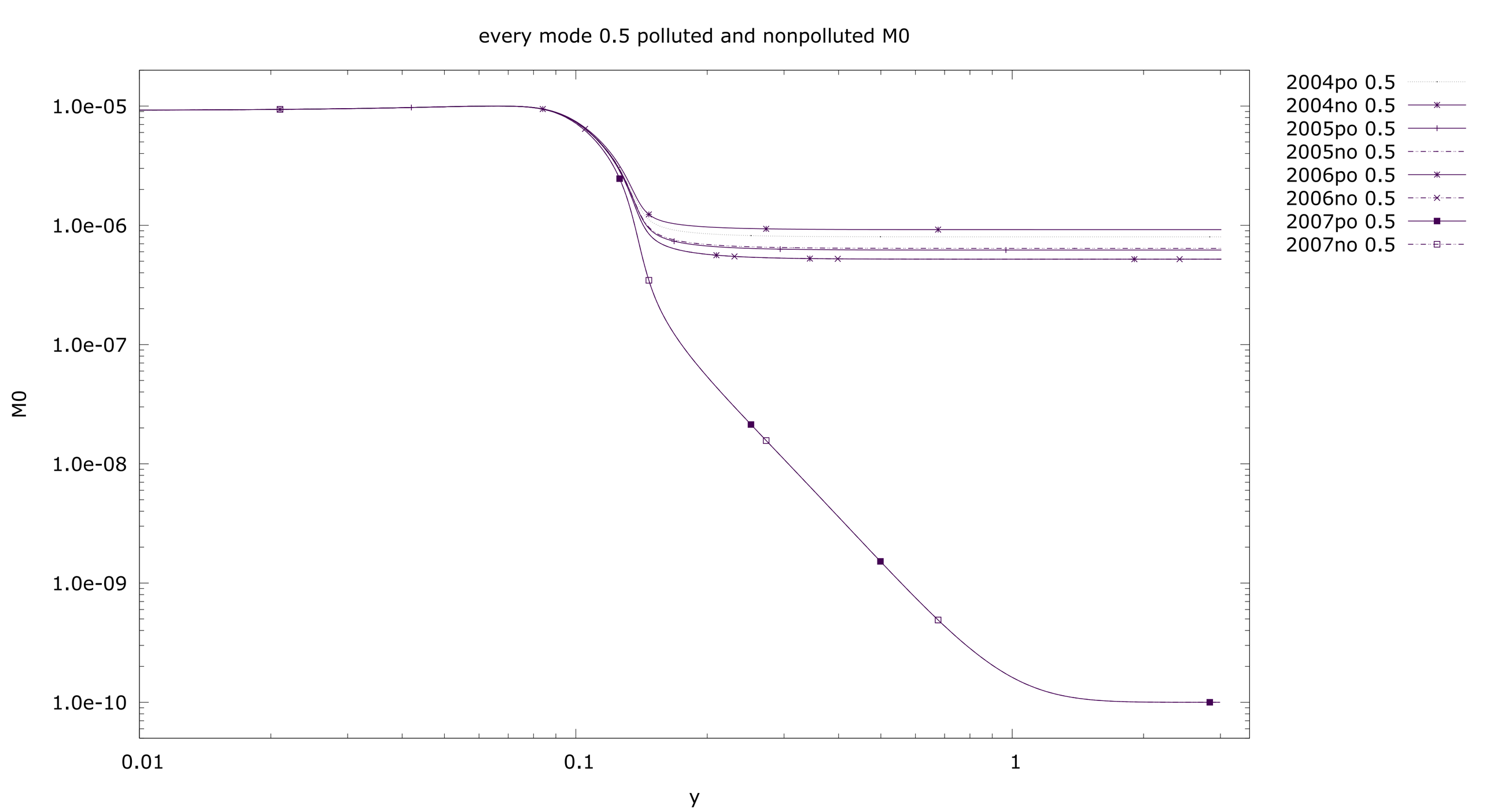
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1.0e-07
1.0e-08
1.0e-09
1.0e-10
M0
0.01
0.1
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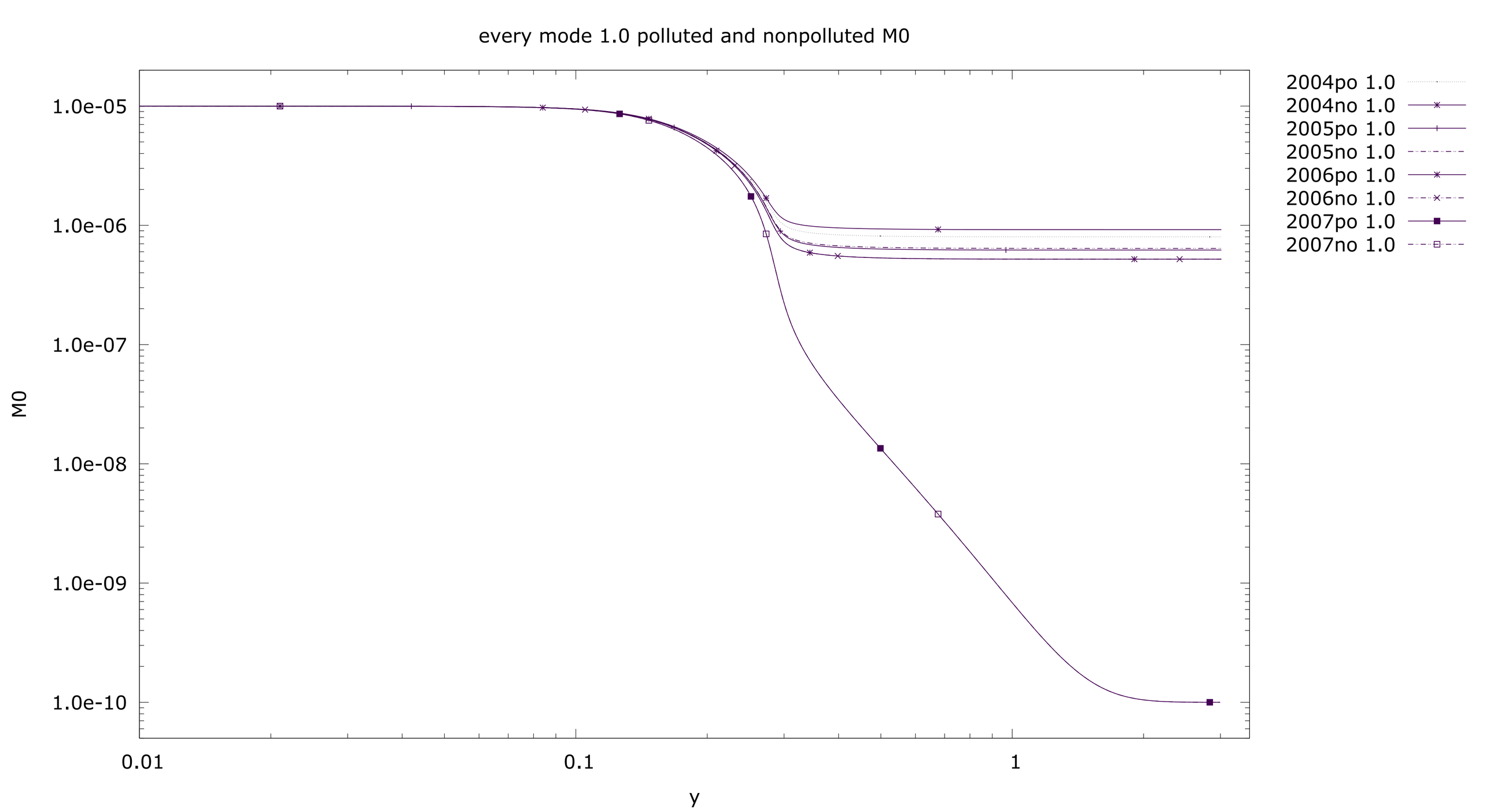
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1.0e-08
1.0e-09
1.0e-10
M0
0.01
0.1
1
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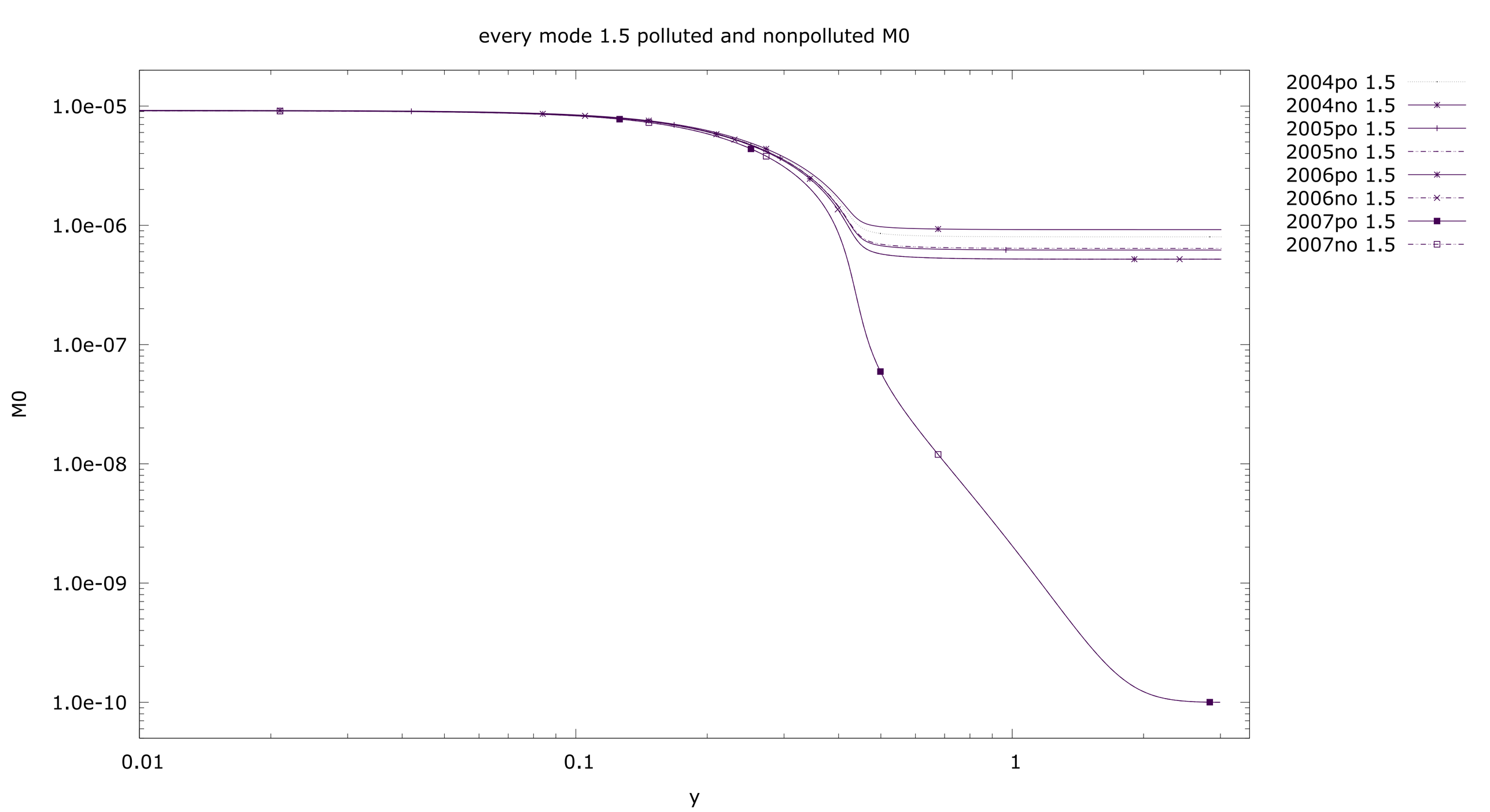
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1.0e-07
1.0e-08
1.0e-09
1.0e-10
M0
0.01
0.1
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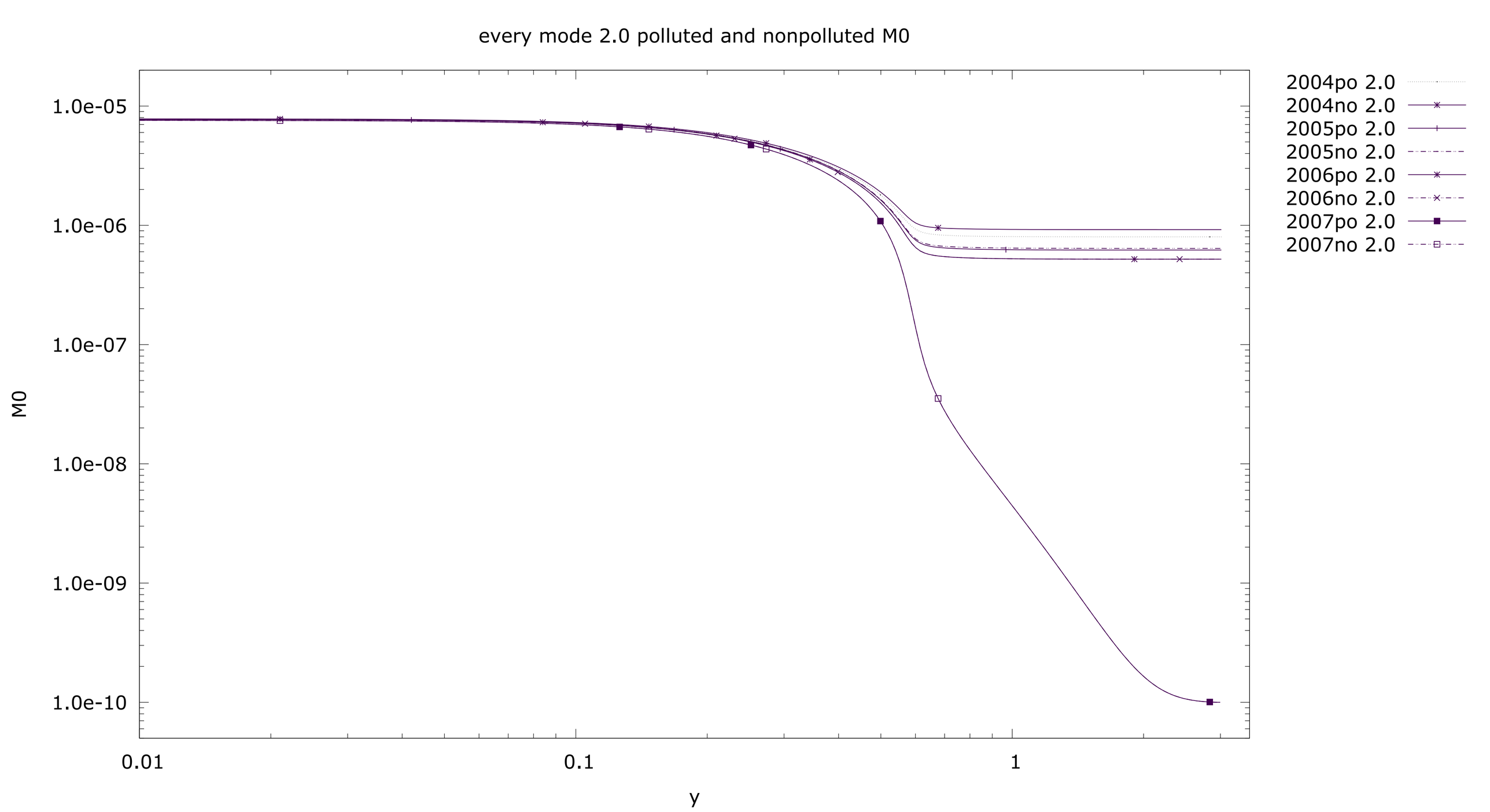
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1.0e-07
1.0e-08
1.0e-09
1.0e-10
M0
0.01
0.1
1
y
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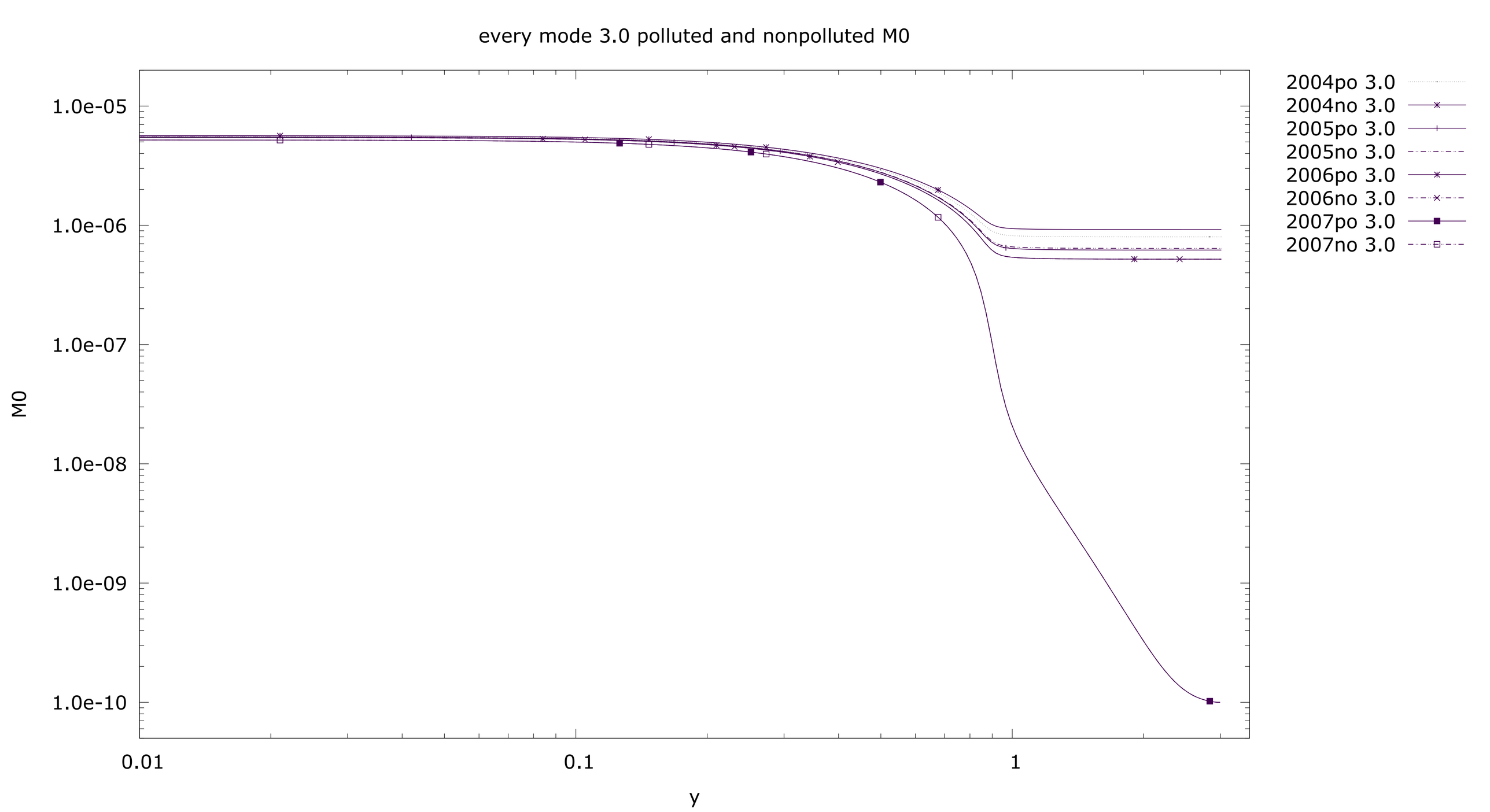
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1.0e-07
1.0e-08
1.0e-09
1.0e-10
M0
0.01
0.1
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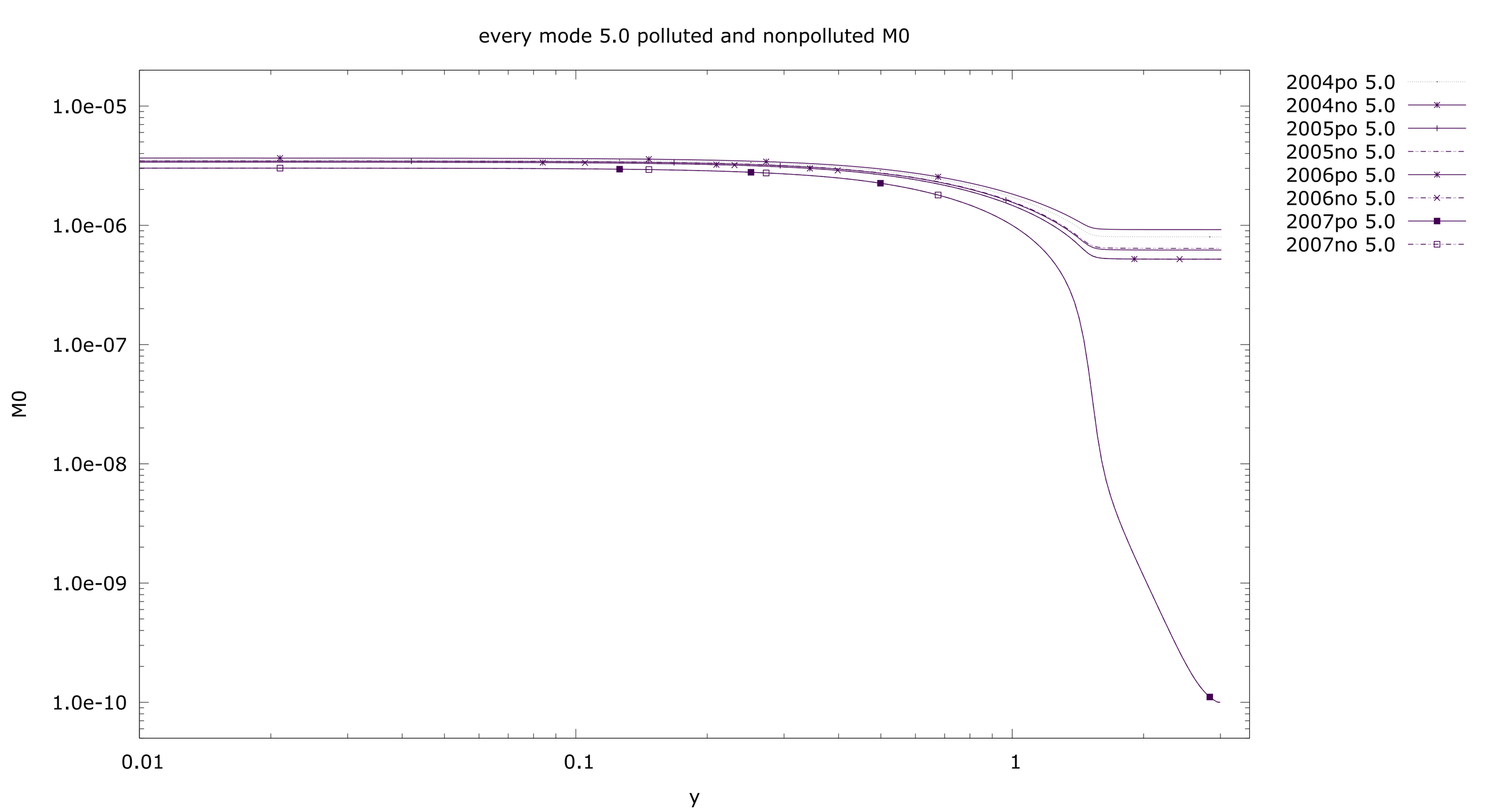
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1.0e-07
1.0e-08
1.0e-09
1.0e-10
M0
0.01
0.1
1
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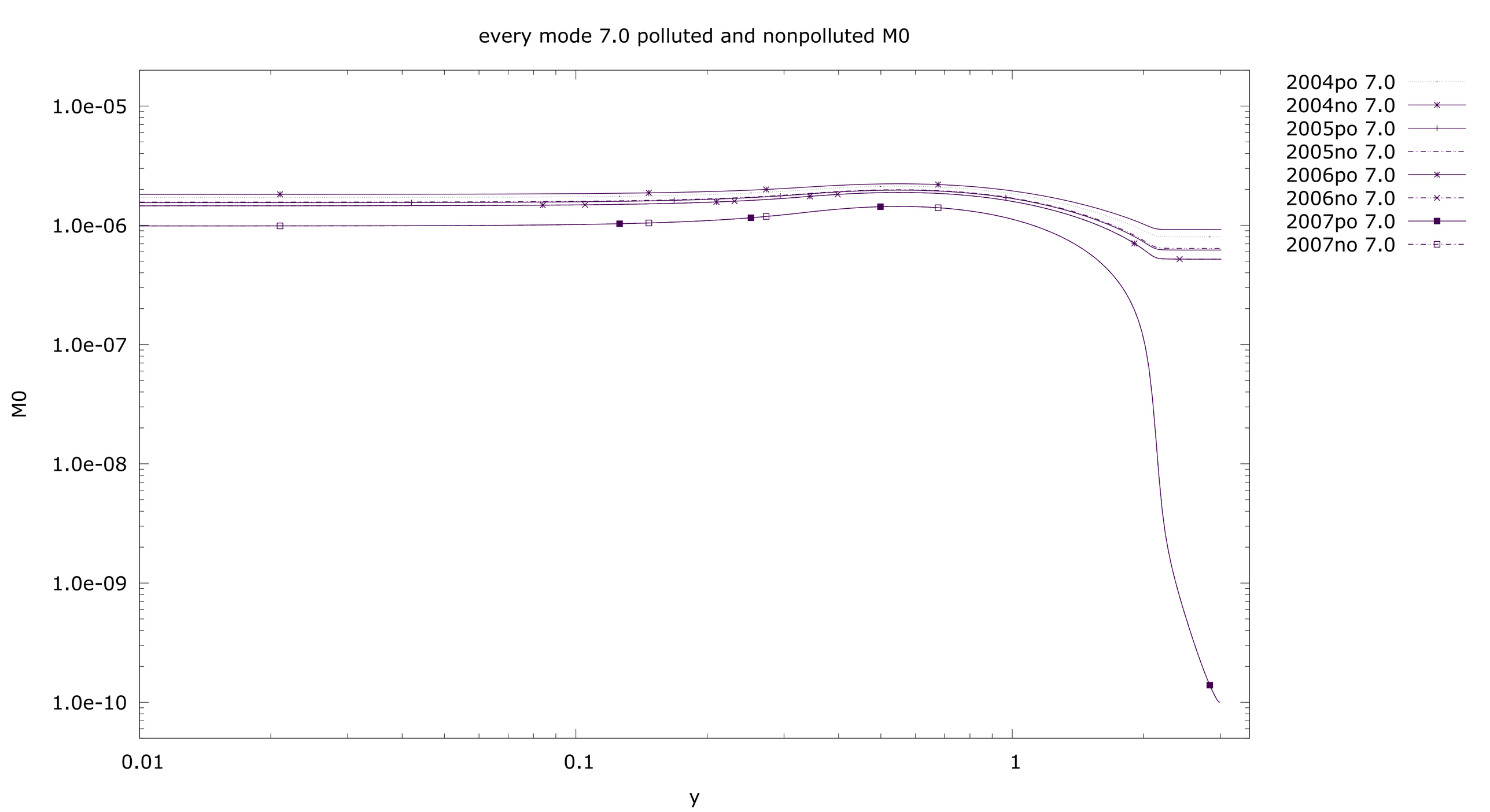
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1.0e-07
1.0e-08
1.0e-09
1.0e-10
M0
0.01
0.1
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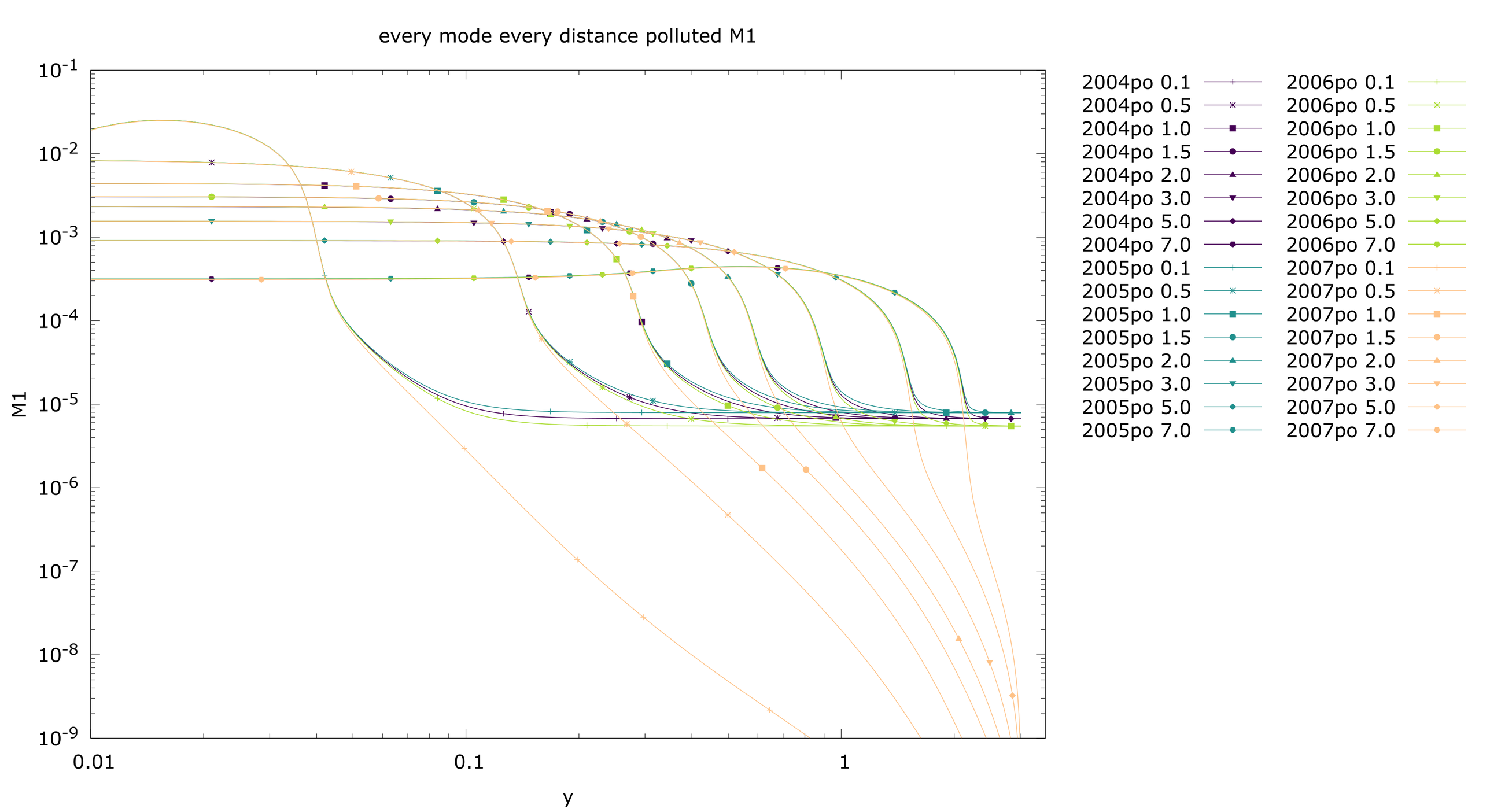
every mode every distance polluted M1
M1
y
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
10^-7
10^-8
10^-9
0.01
0.1
1
2004po 0.1
2004po 0.5
2004po 1.0
2004po 1.5
2004po 2.0
2004po 3.0
2004po 5.0
2004po 7.0
2005po 0.1
2005po 0.5
2005po 1.0
2005po 1.5
2005po 2.0
2005po 3.0
2005po 5.0
2005po 7.0
2006po 0.1
2006po 0.5
2006po 1.0
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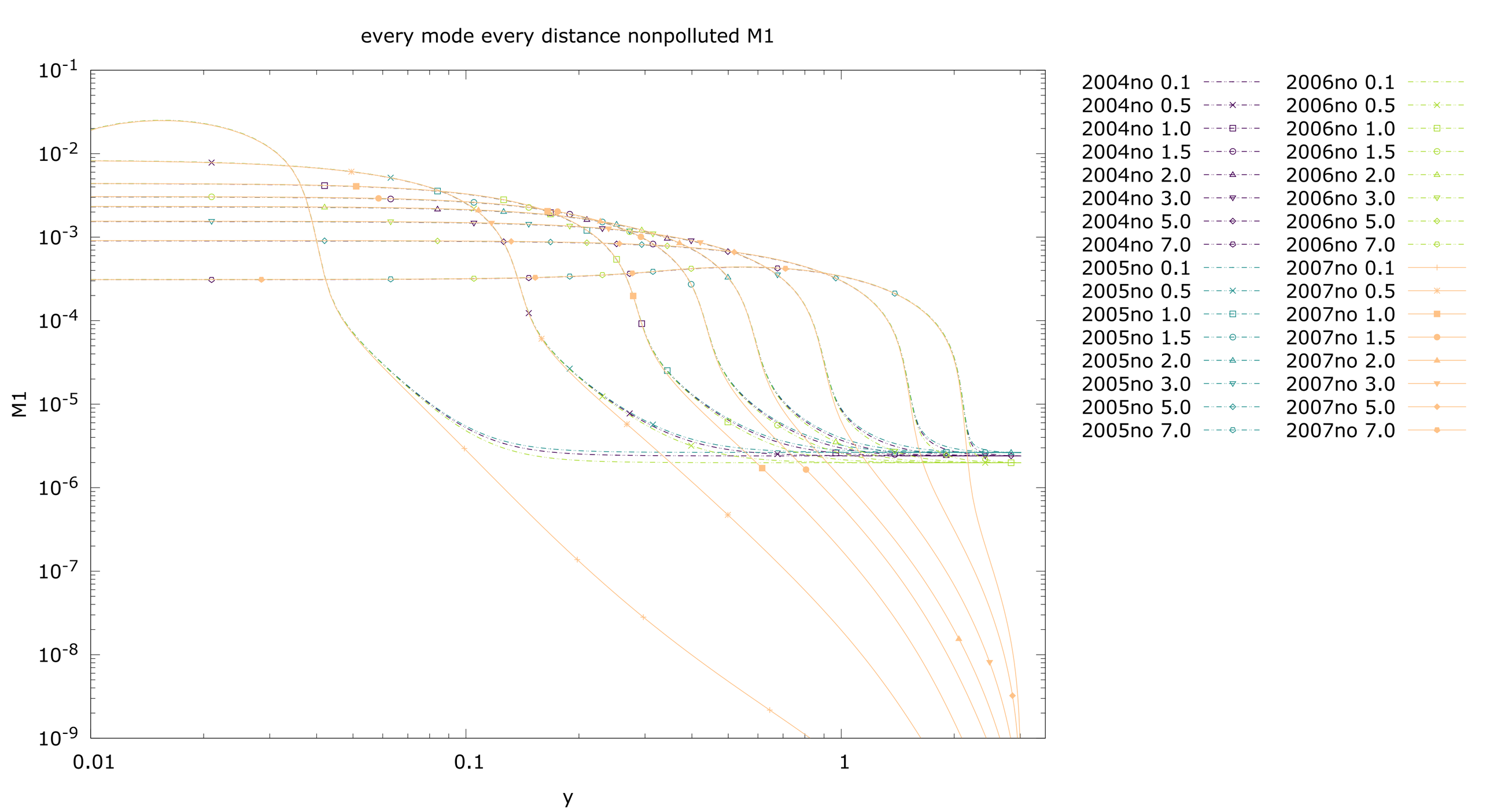
every mode every distance nonpolluted M1
M1
y
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
10^{-6}
10^{-7}
10^{-8}
10^{-9}
0.01
0.1
1
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2004no 0.5
2004no 1.0
2004no 1.5
2004no 2.0
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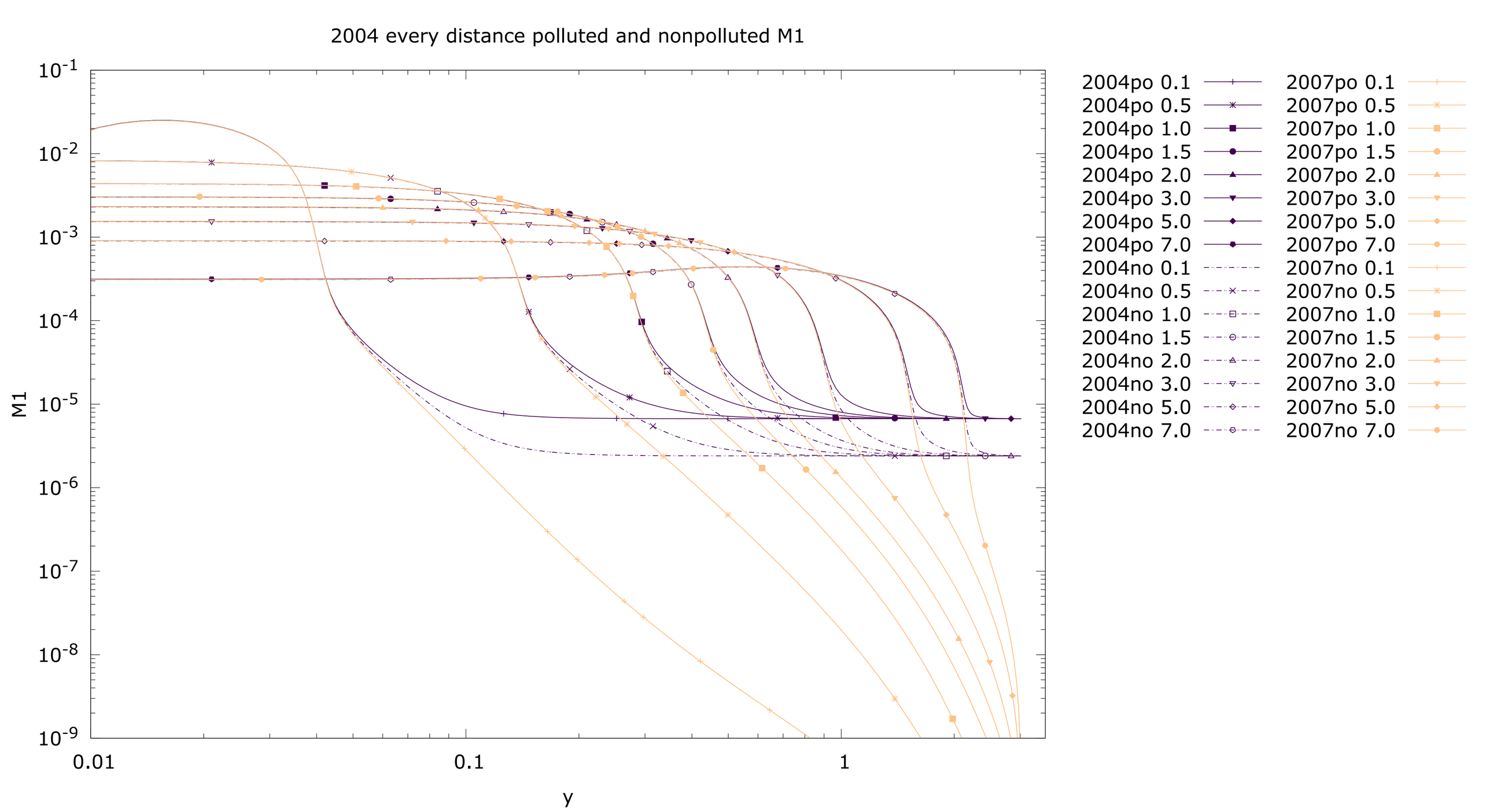
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M1
y
10-1
10-2
10-3
10-4
10-5
10-6
10-7
10-8
10-9
0.01
0.1
1
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2004po 0.5
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2004po 7.0
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2004no 0.5
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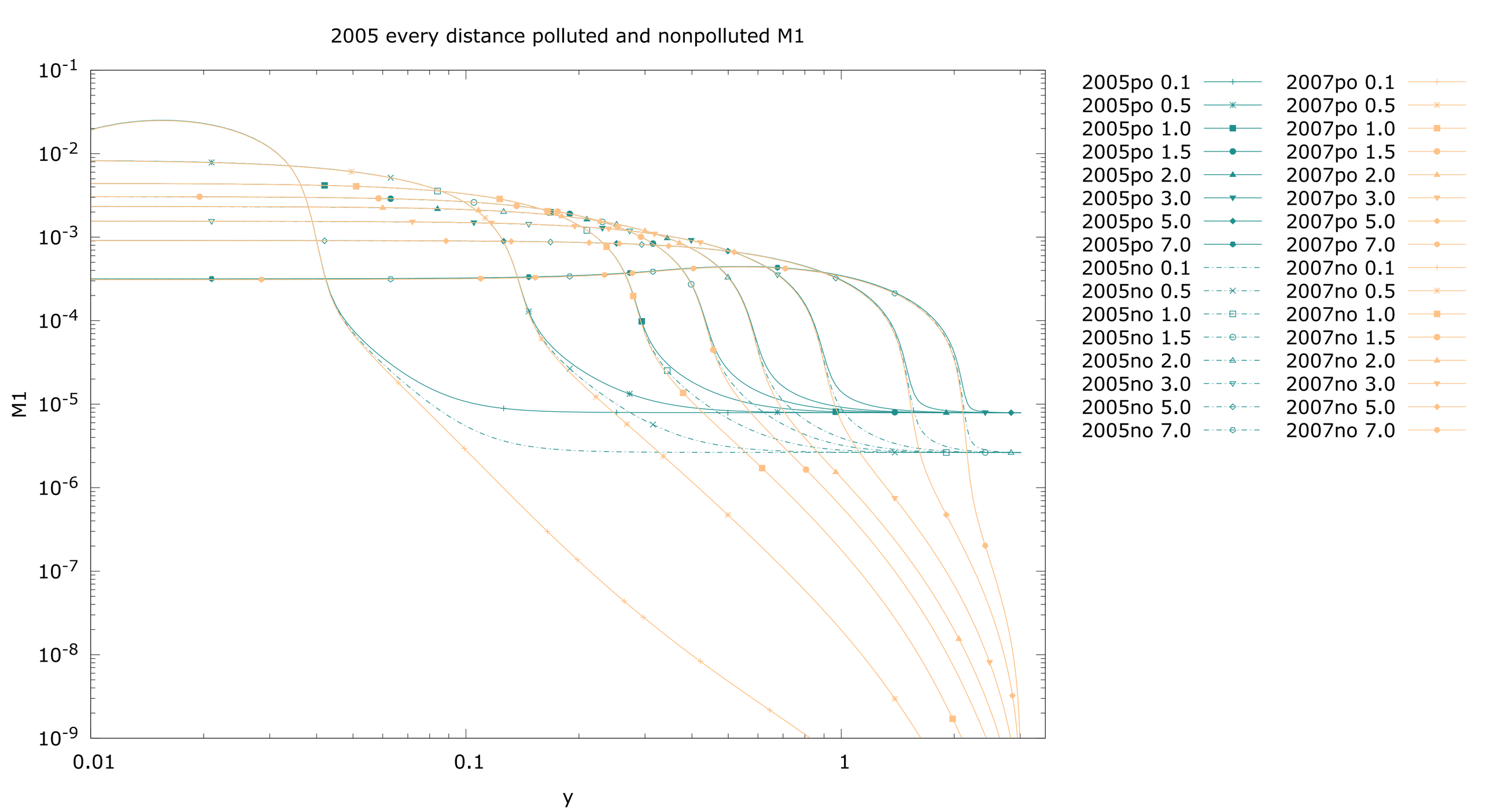
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M1
y
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
10^{-6}
10^{-7}
10^{-8}
10^{-9}
0.01
0.1
1
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2005po 0.5
2005po 1.0
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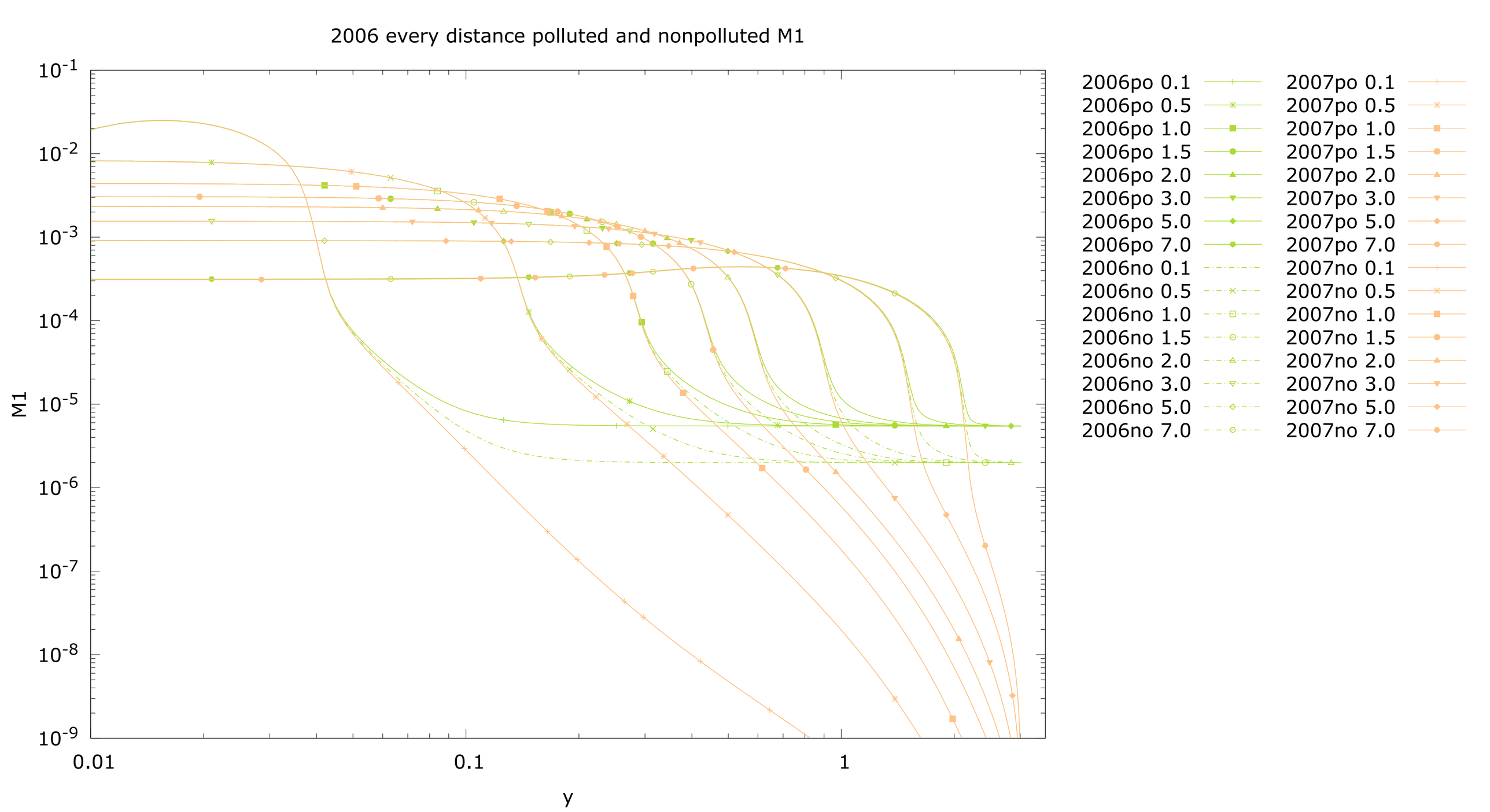
2006 every distance polluted and nonpolluted M1
M1
y
10-1
10-2
10-3
10-4
10-5
10-6
10-7
10-8
10-9
0.01
0.1
1
2006po 0.1
2006po 0.5
2006po 1.0
2006po 1.5
2006po 2.0
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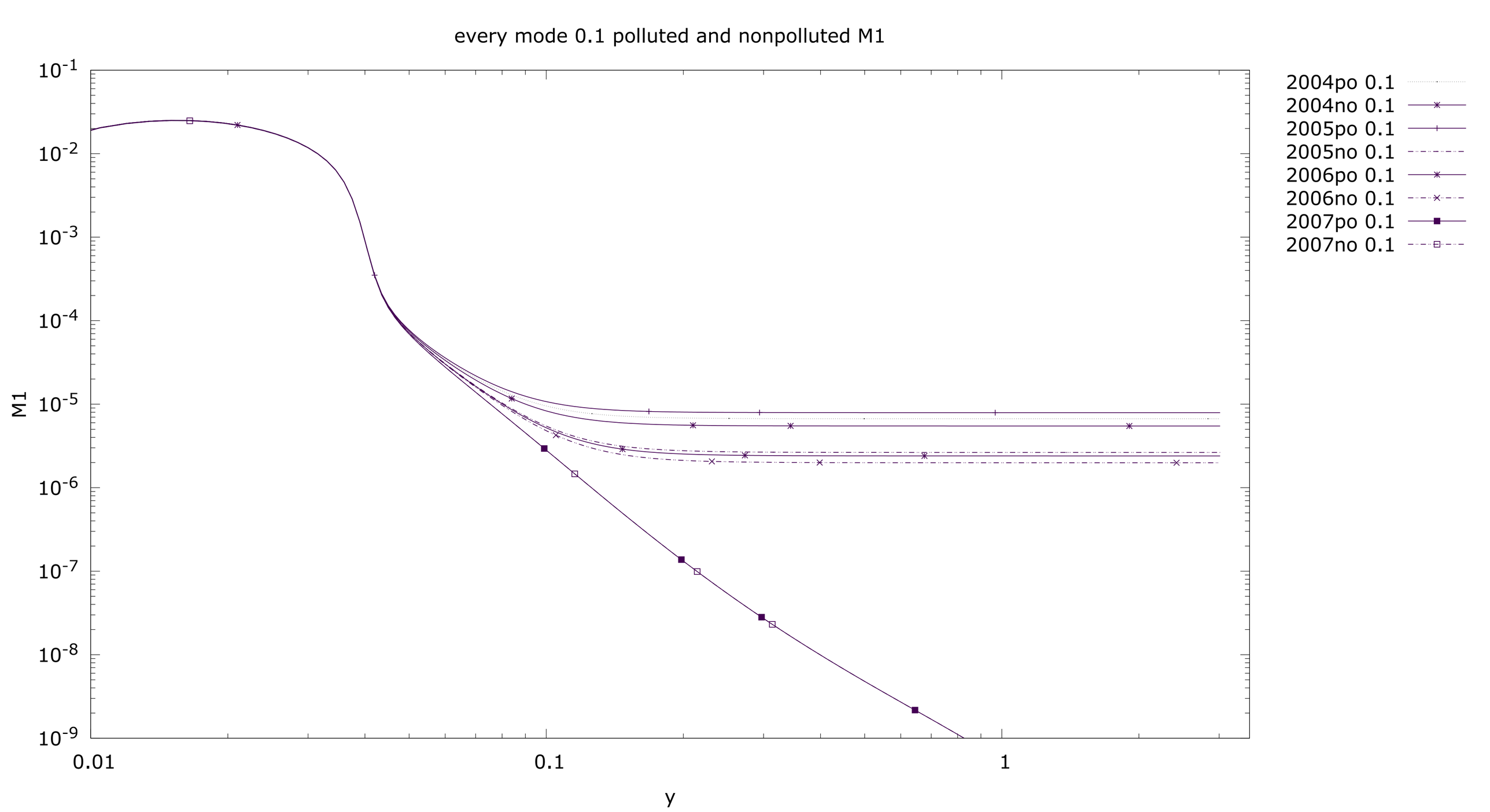
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10^{-2}
10^{-3}
10^{-4}
10^{-5}
10^{-6}
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10^{-8}
10^{-9}
0.01
0.1
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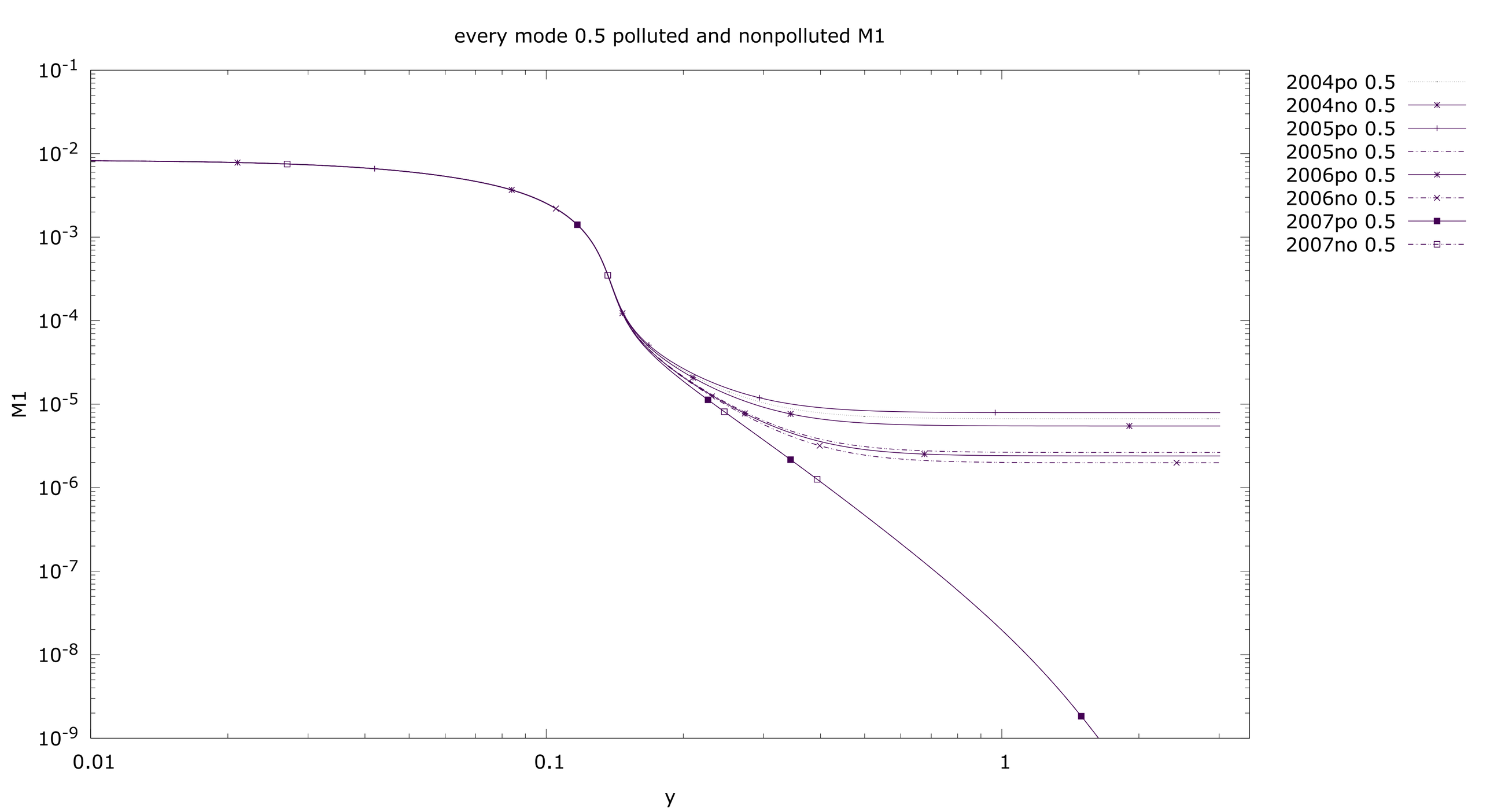
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10^{-2}
10^{-3}
10^{-4}
10^{-5}
10^{-6}
10^{-7}
10^{-8}
10^{-9}
0.01
0.1
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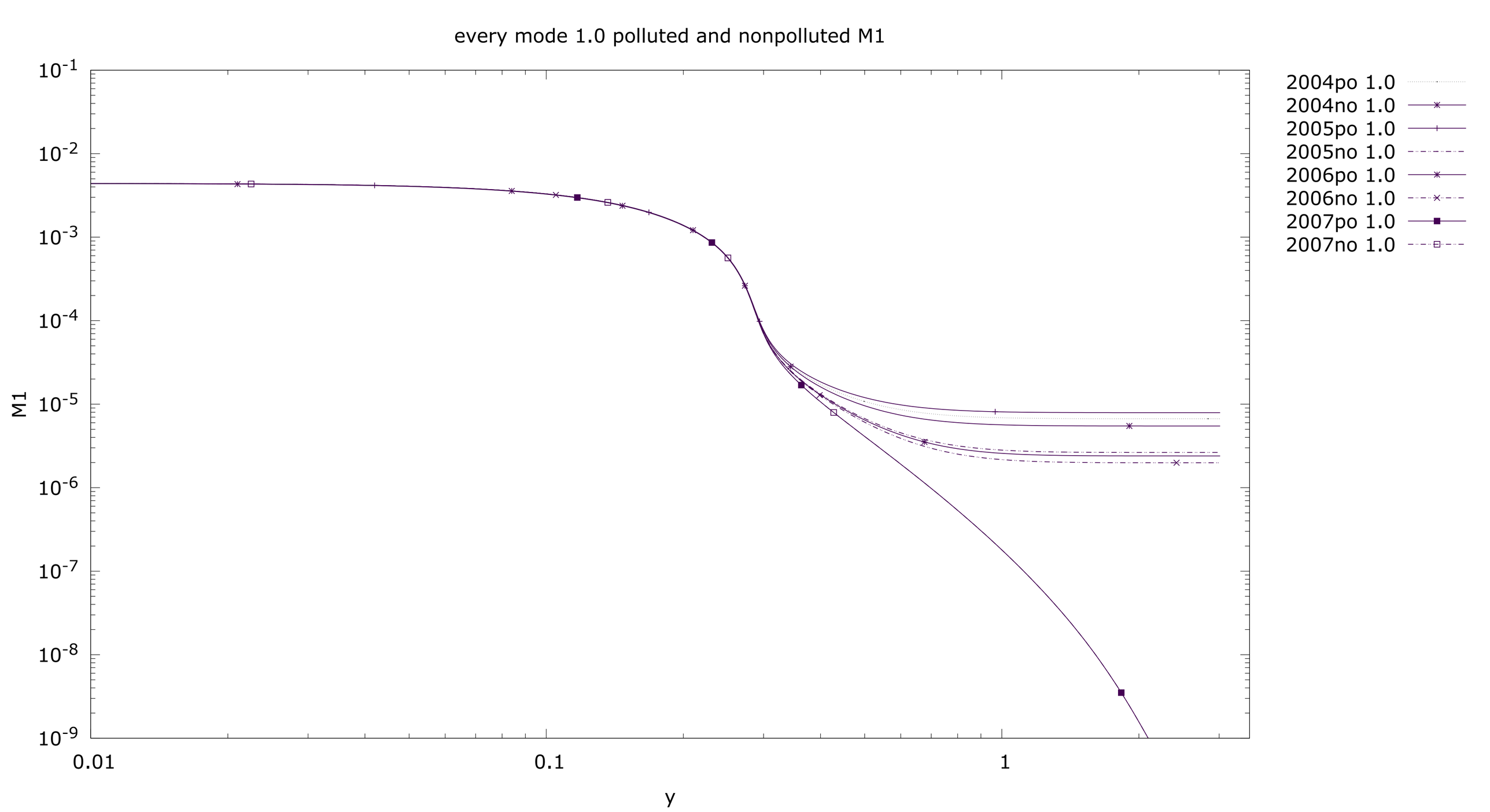
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M1
y
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10^{-2}
10^{-3}
10^{-4}
10^{-5}
10^{-6}
10^{-7}
10^{-8}
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0.01
0.1
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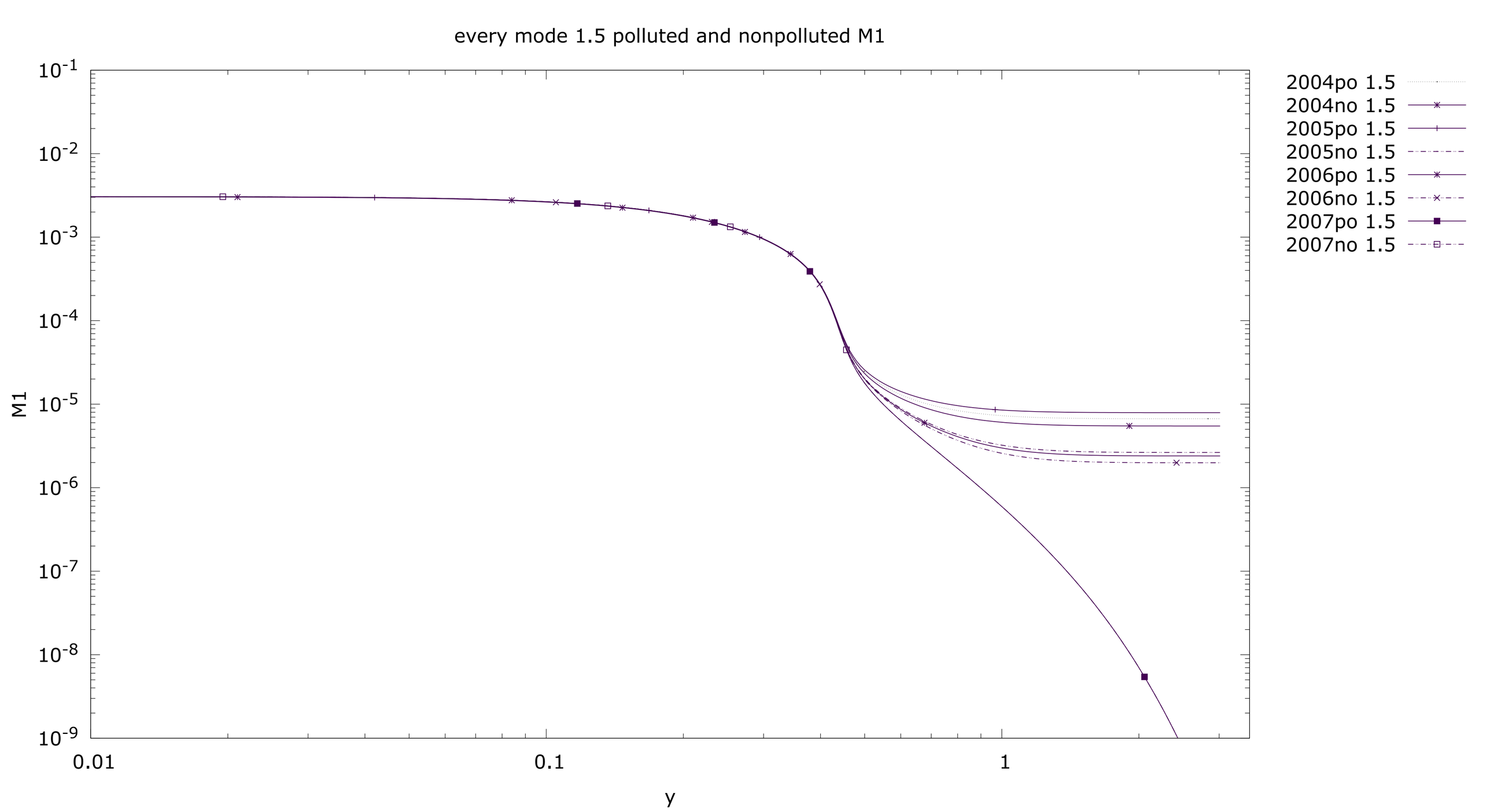
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10^{-5}
10^{-6}
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10^{-8}
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0.1
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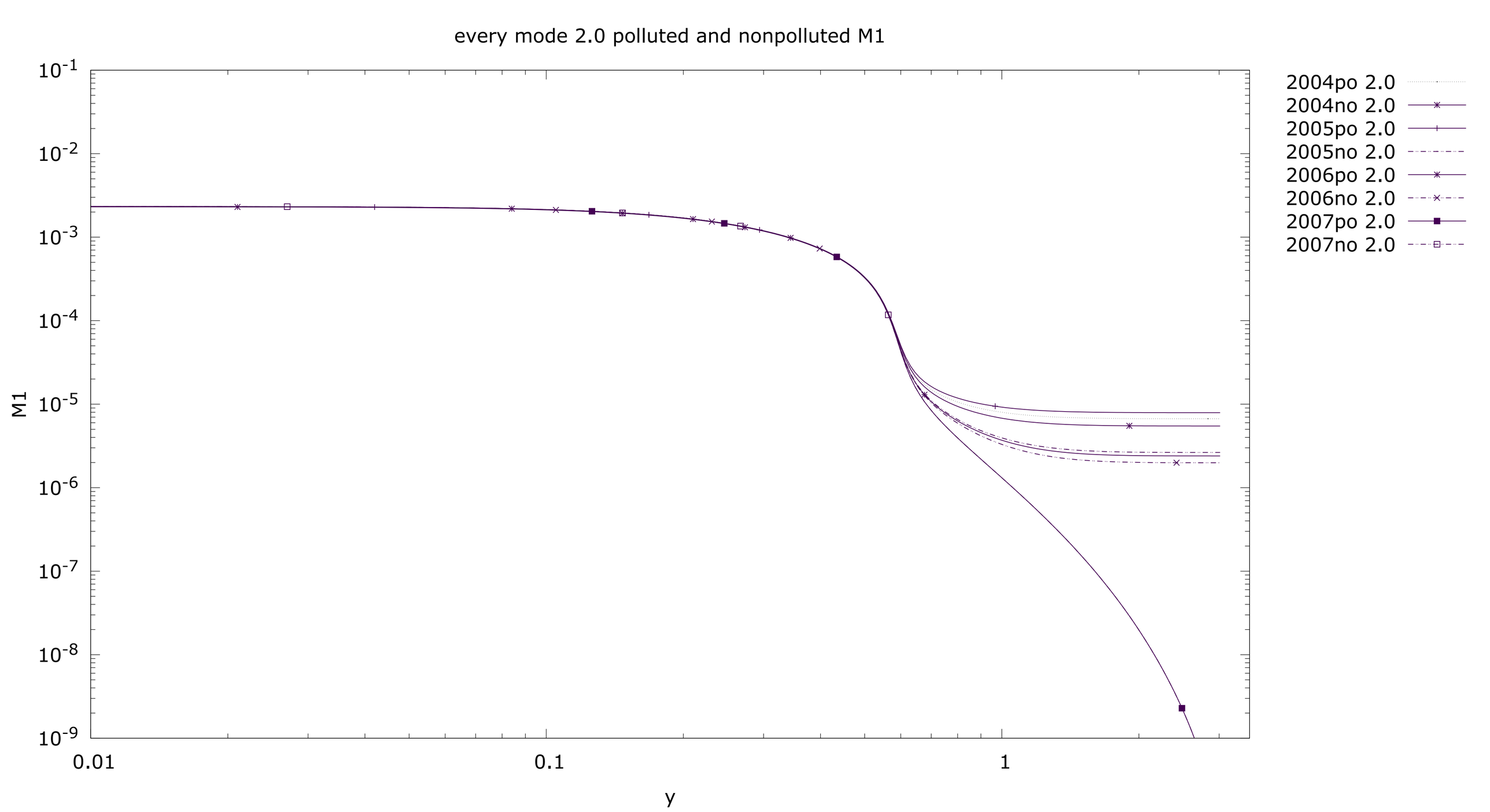
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M1
y
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10^{-5}
10^{-6}
10^{-7}
10^{-8}
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0.1
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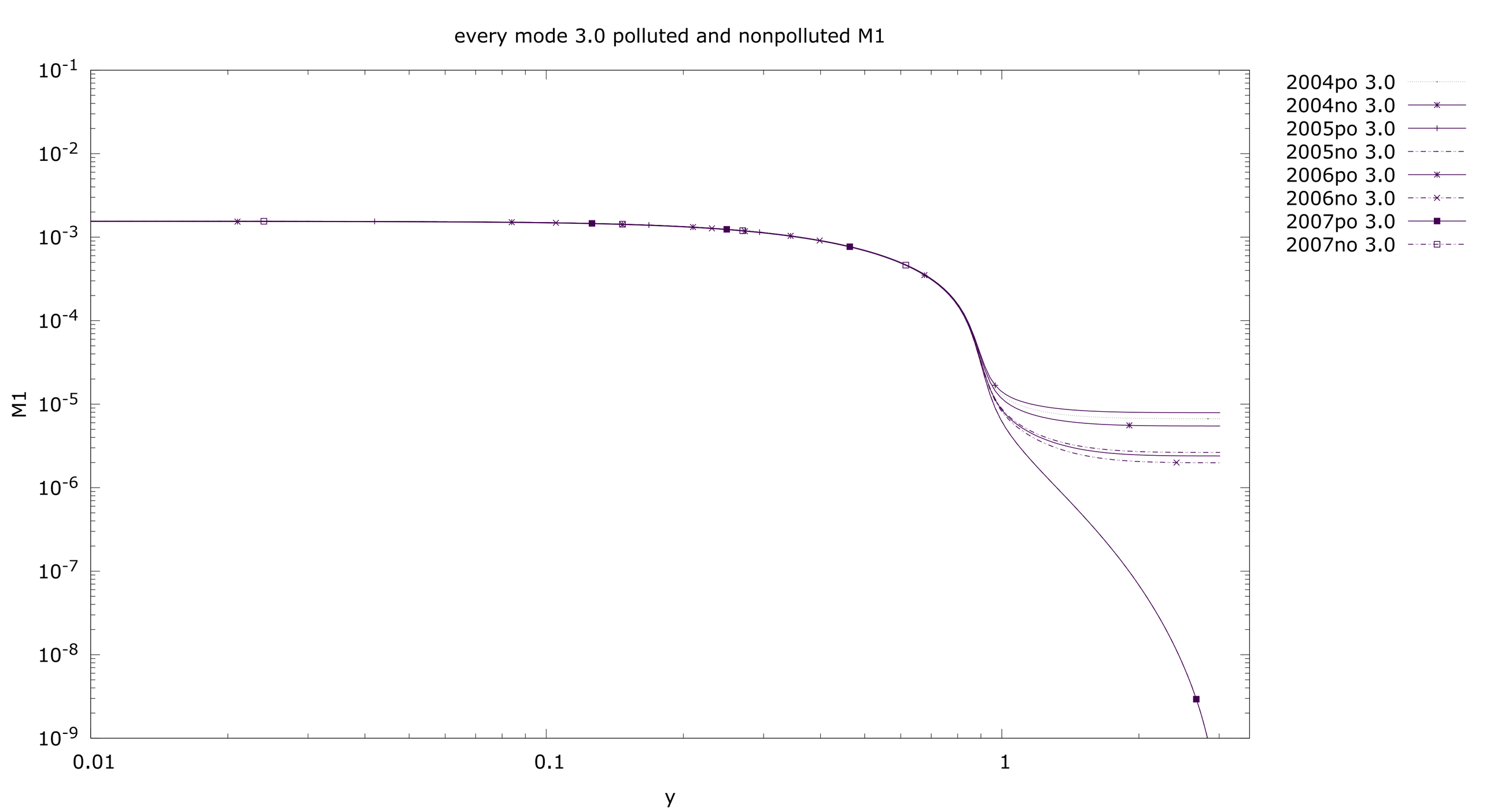
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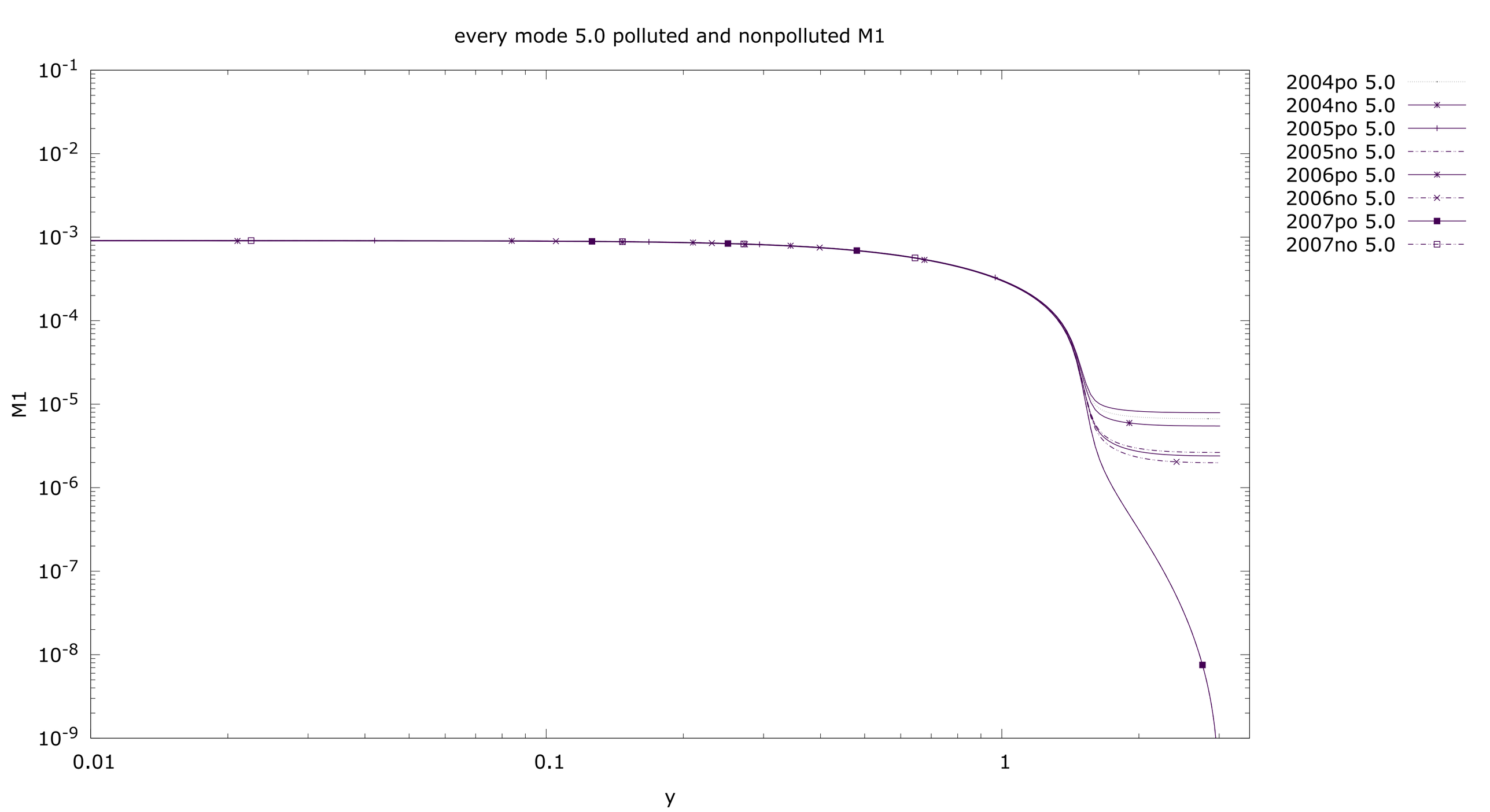
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10^{-3}
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10^{-5}
10^{-6}
10^{-7}
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0.01
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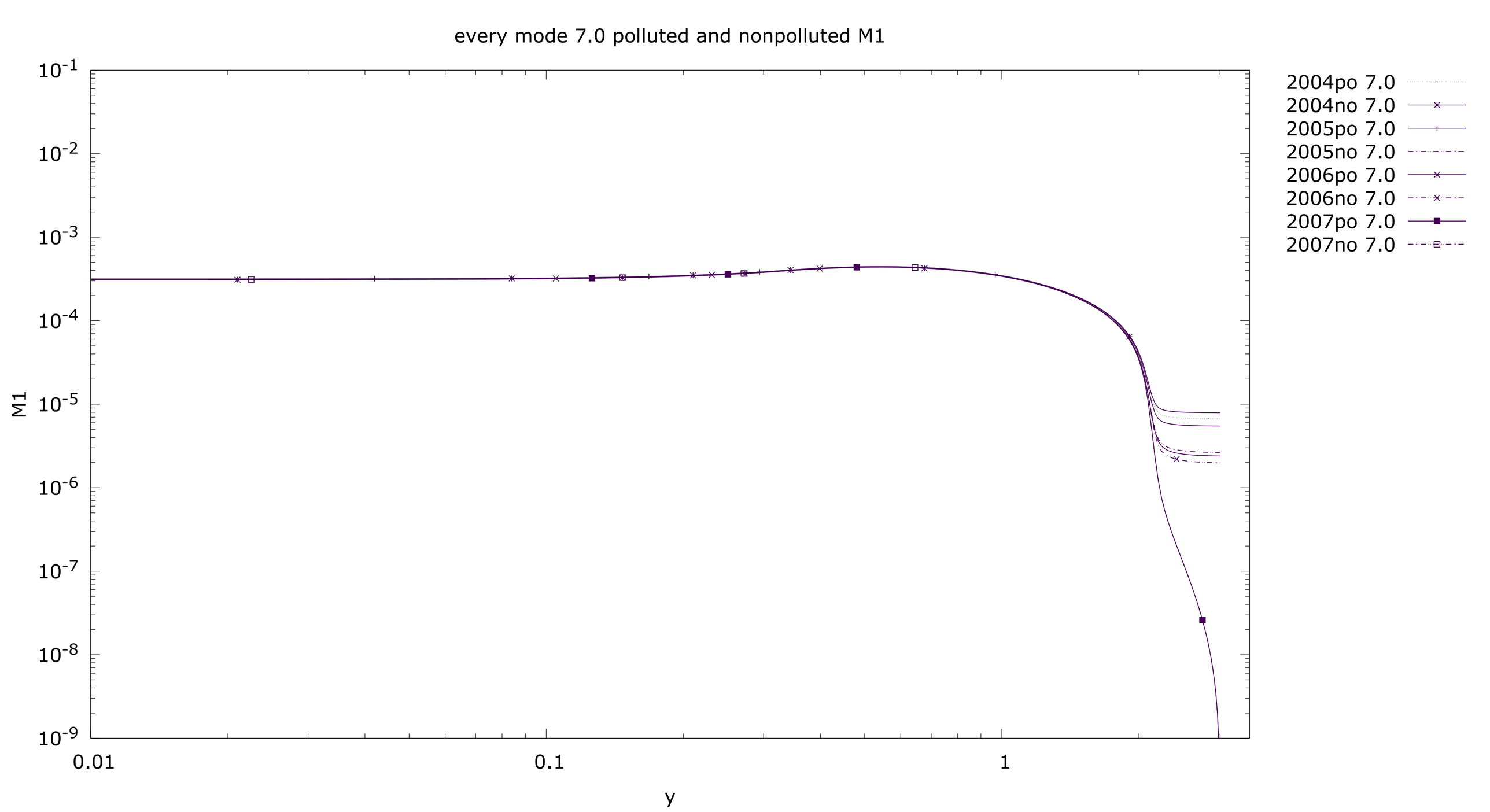
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10^{-7}
10^{-8}
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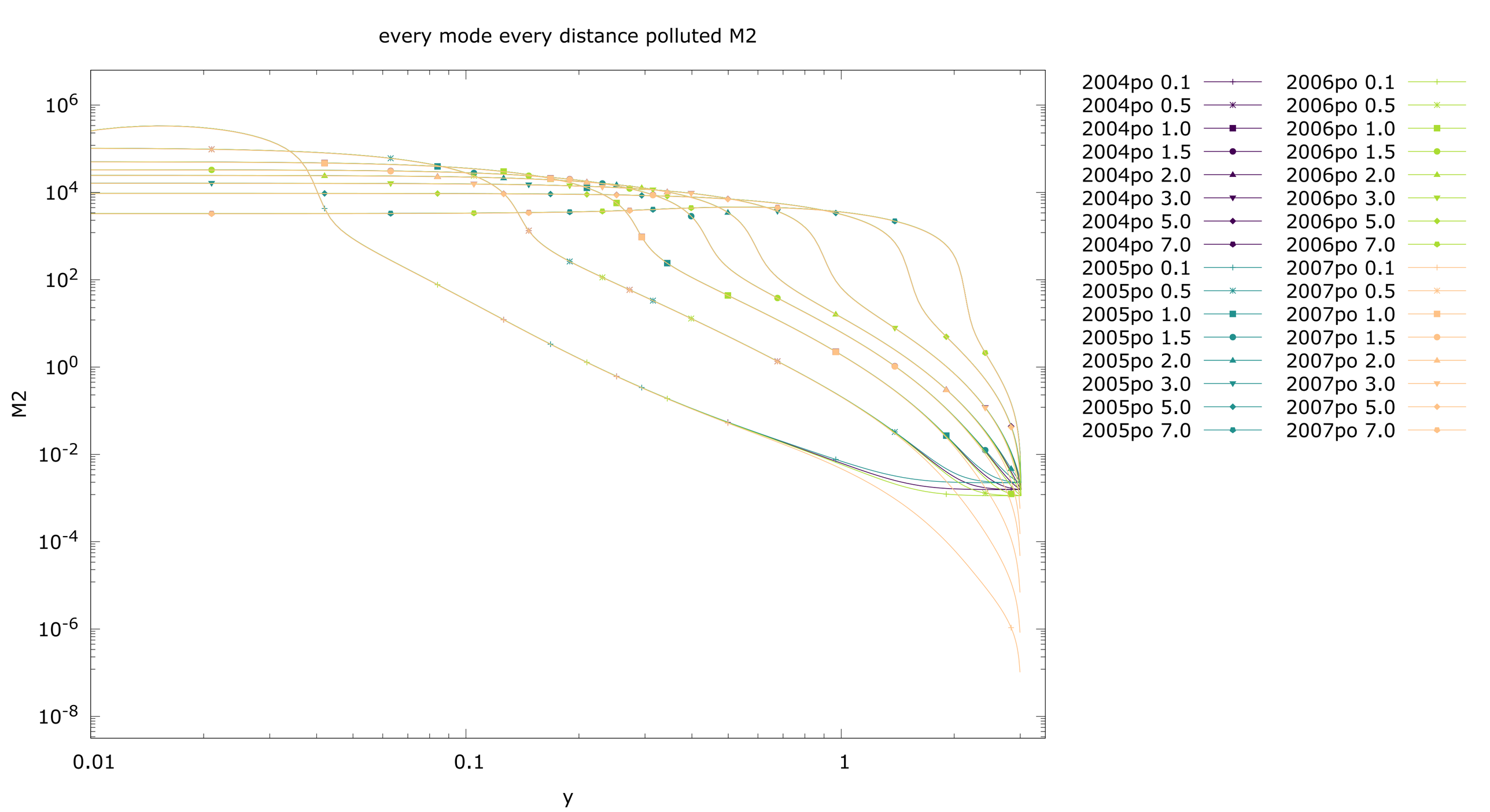
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10^{2}
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10^{-4}
10^{-6}
10^{-8}
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0.1
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2004po 1.5
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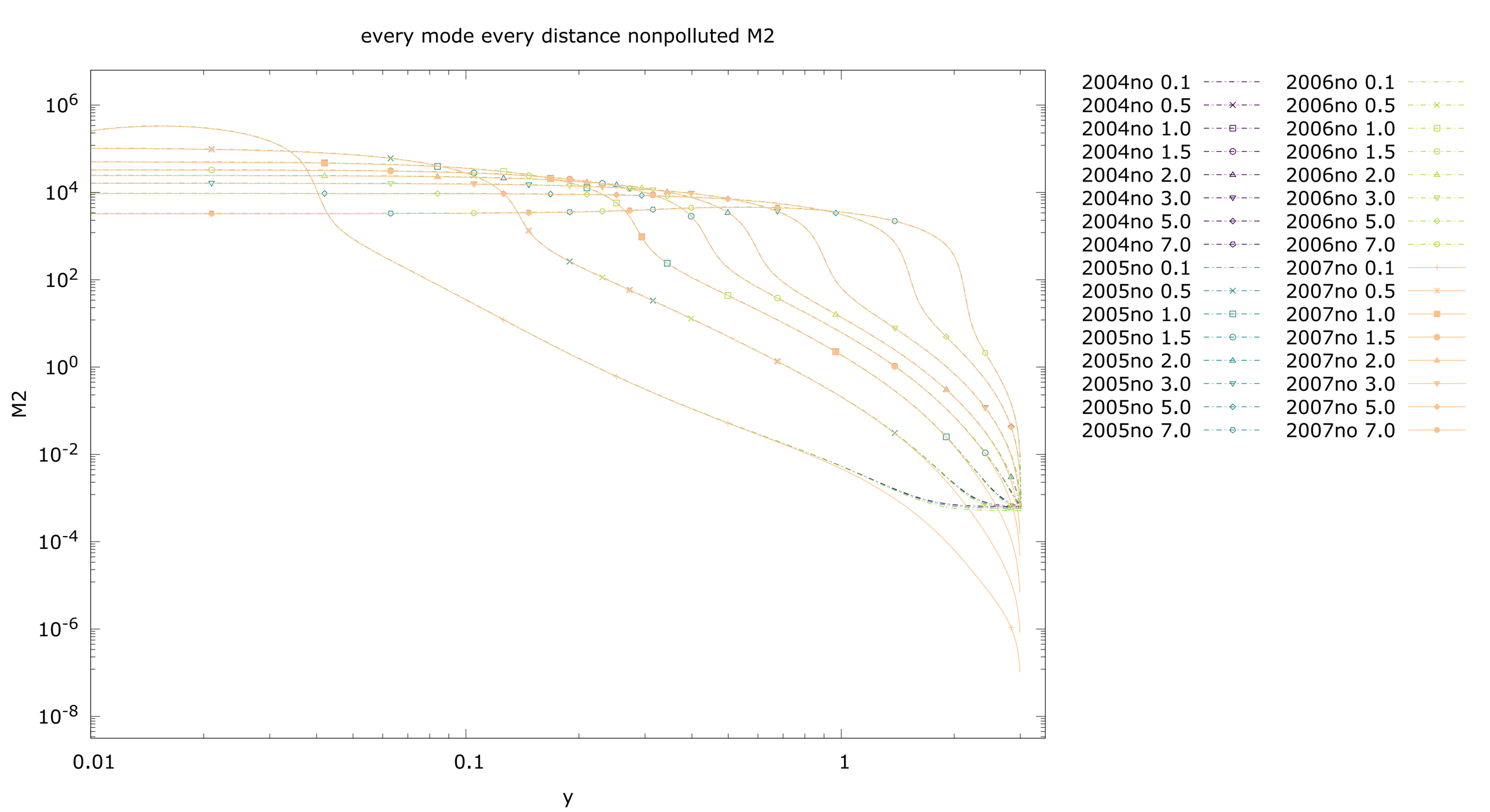
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M2
y
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10^{2}
10^{0}
10^{-2}
10^{-4}
10^{-6}
10^{-8}
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0.1
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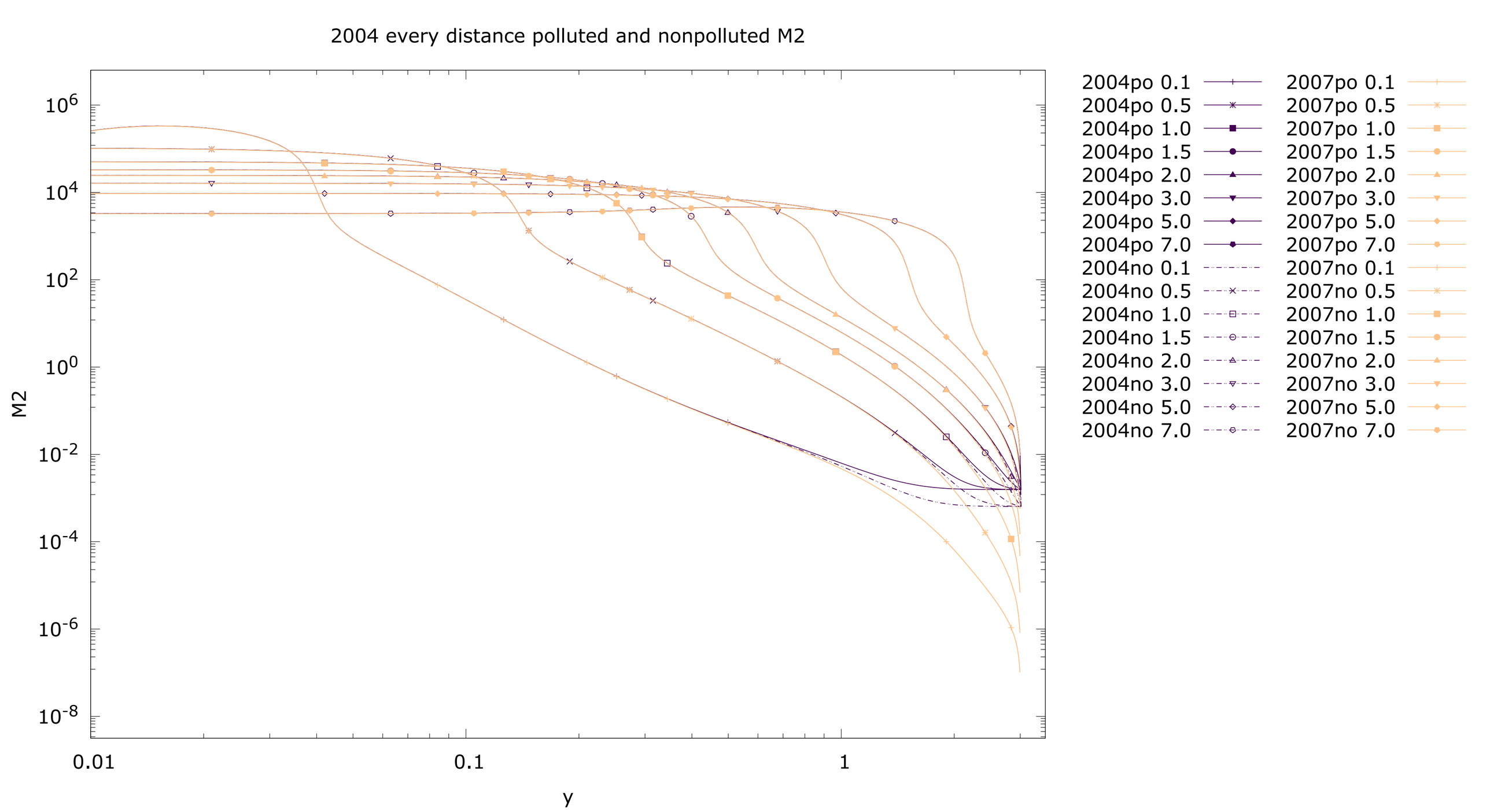
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M2
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10^{4}
10^{2}
10^{0}
10^{-2}
10^{-4}
10^{-6}
10^{-8}
0.01
0.1
1
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2004po 1.5
2004po 2.0
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2004no 1.5
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2007po 0.5
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2007po 1.5
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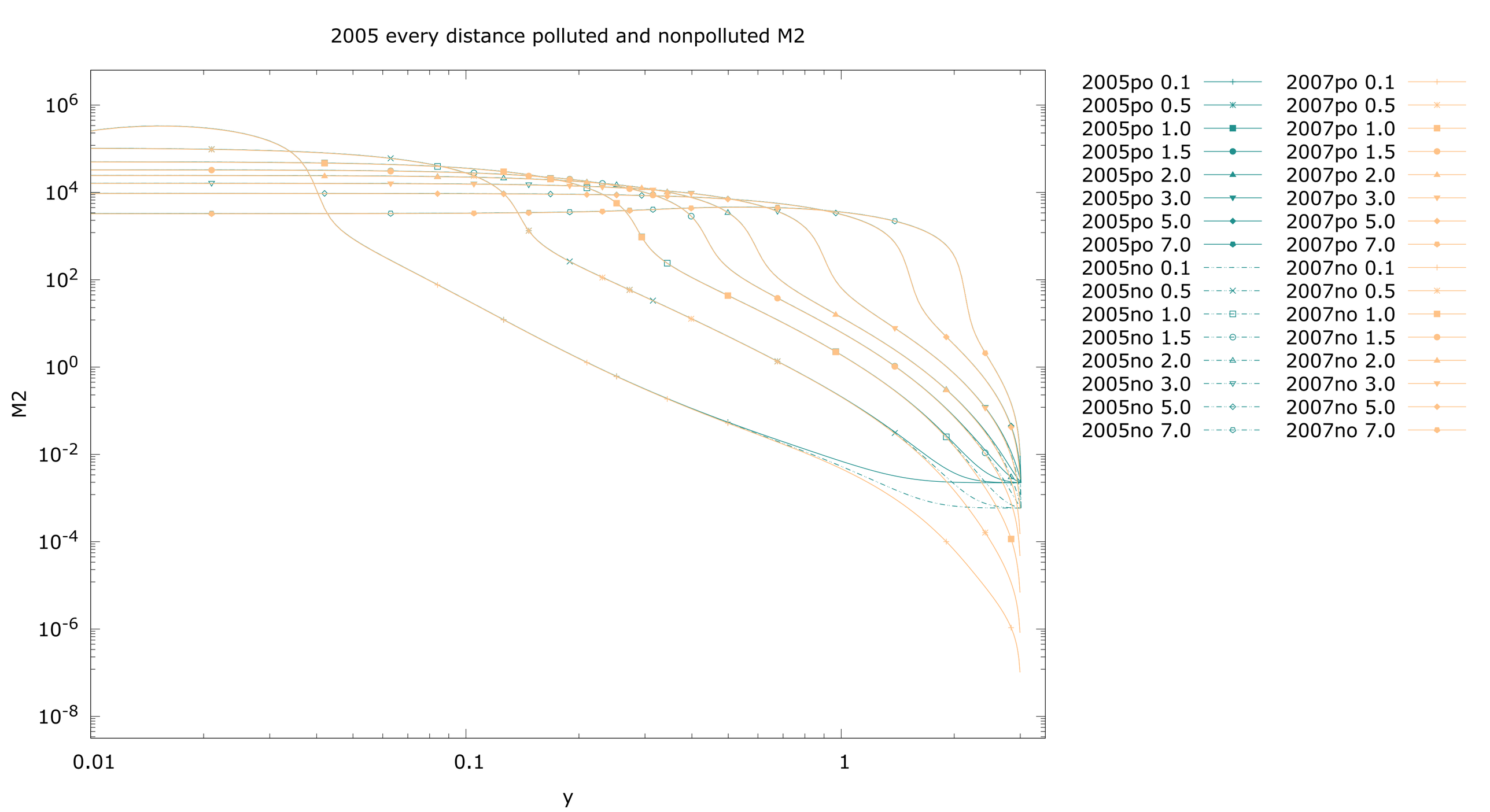
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M2
y
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10^{4}
10^{2}
10^{0}
10^{-2}
10^{-4}
10^{-6}
10^{-8}
0.01
0.1
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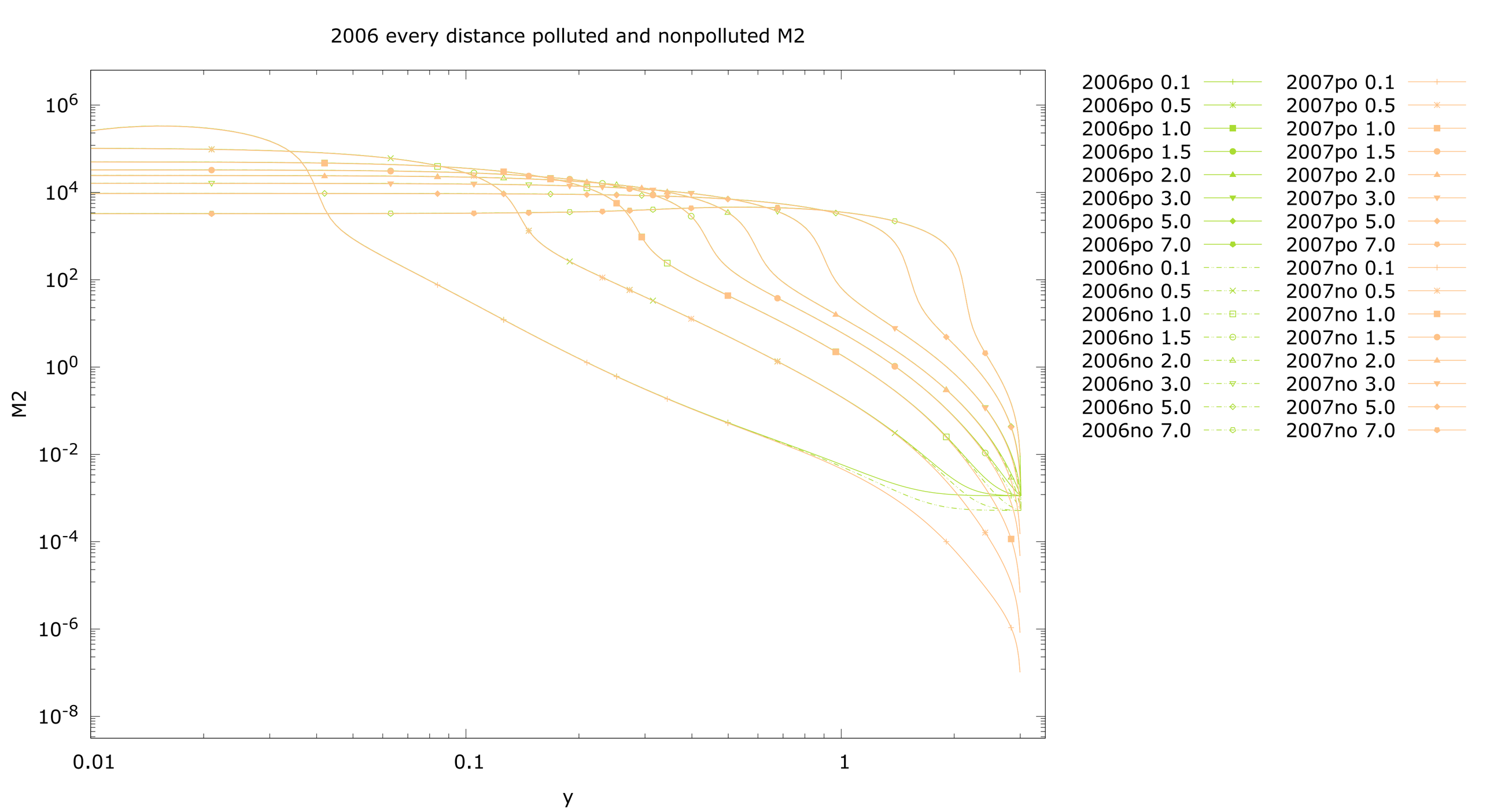
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M2
y
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10^{4}
10^{2}
10^{0}
10^{-2}
10^{-4}
10^{-6}
10^{-8}
0.01
0.1
1
2006po 0.1
2006po 0.5
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2006po 1.5
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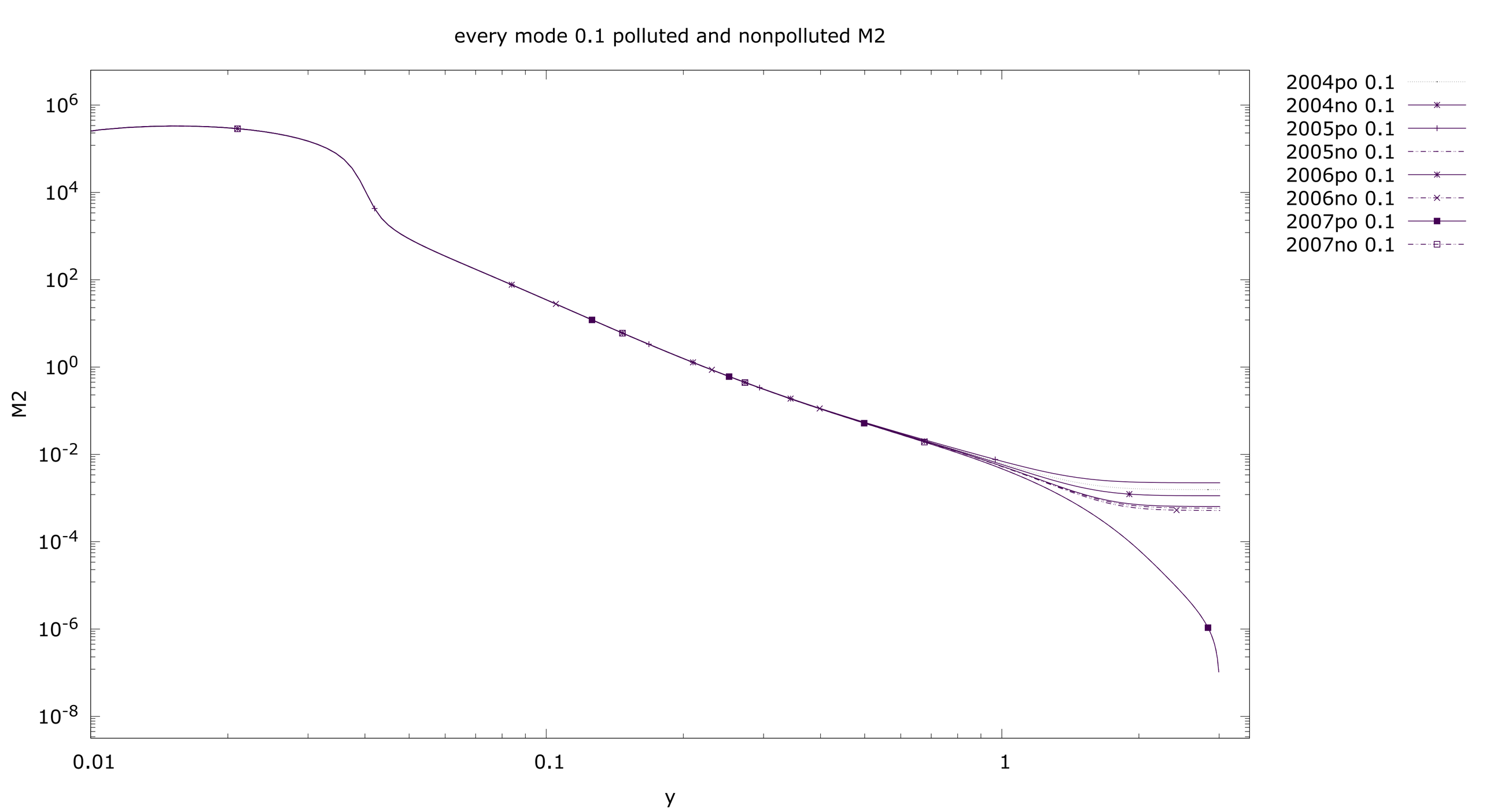
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M2
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10^{4}
10^{2}
10^{0}
10^{-2}
10^{-4}
10^{-6}
10^{-8}
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0.1
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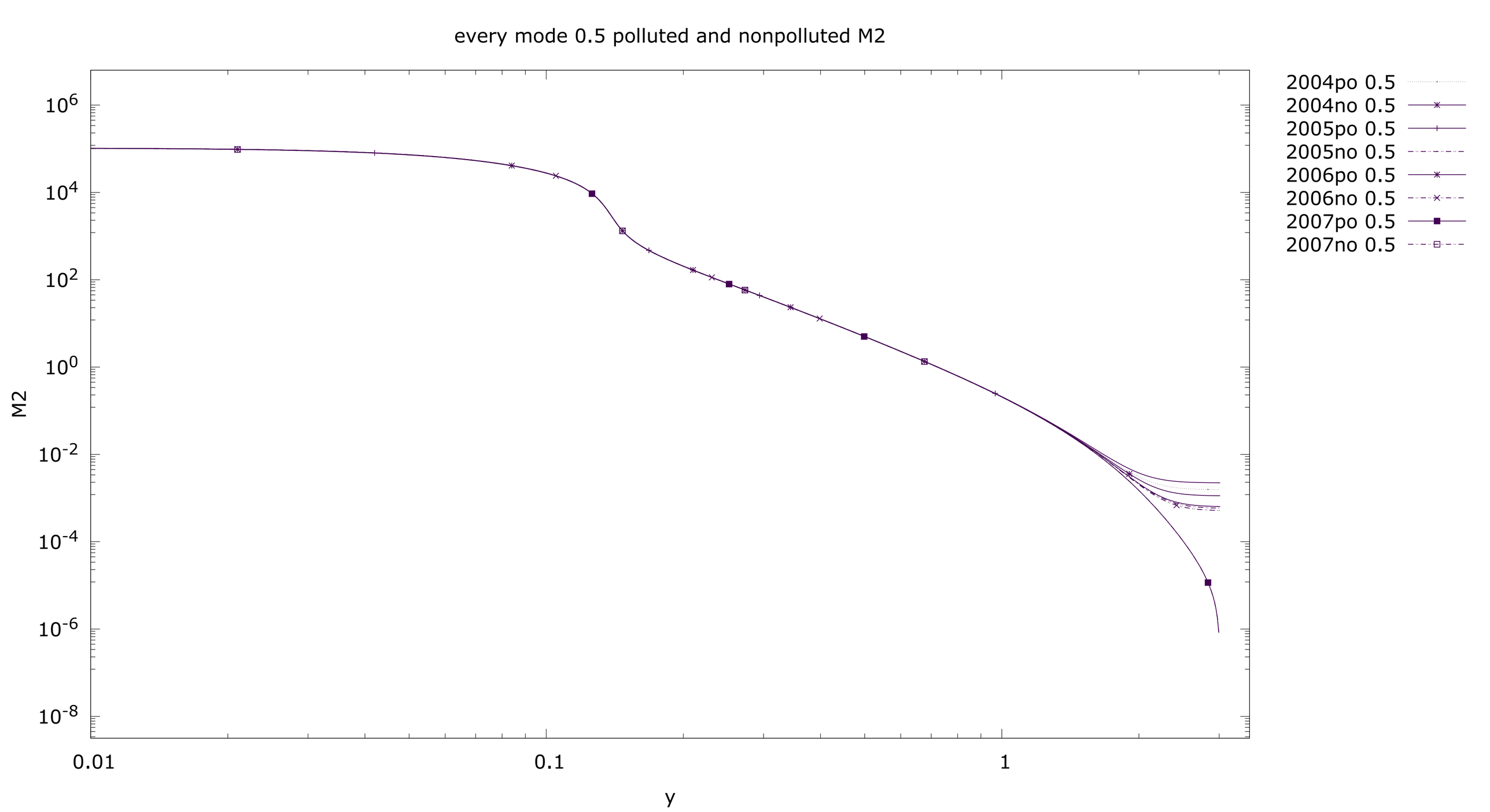
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10^{4}
10^{2}
10^{0}
10^{-2}
10^{-4}
10^{-6}
10^{-8}
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0.1
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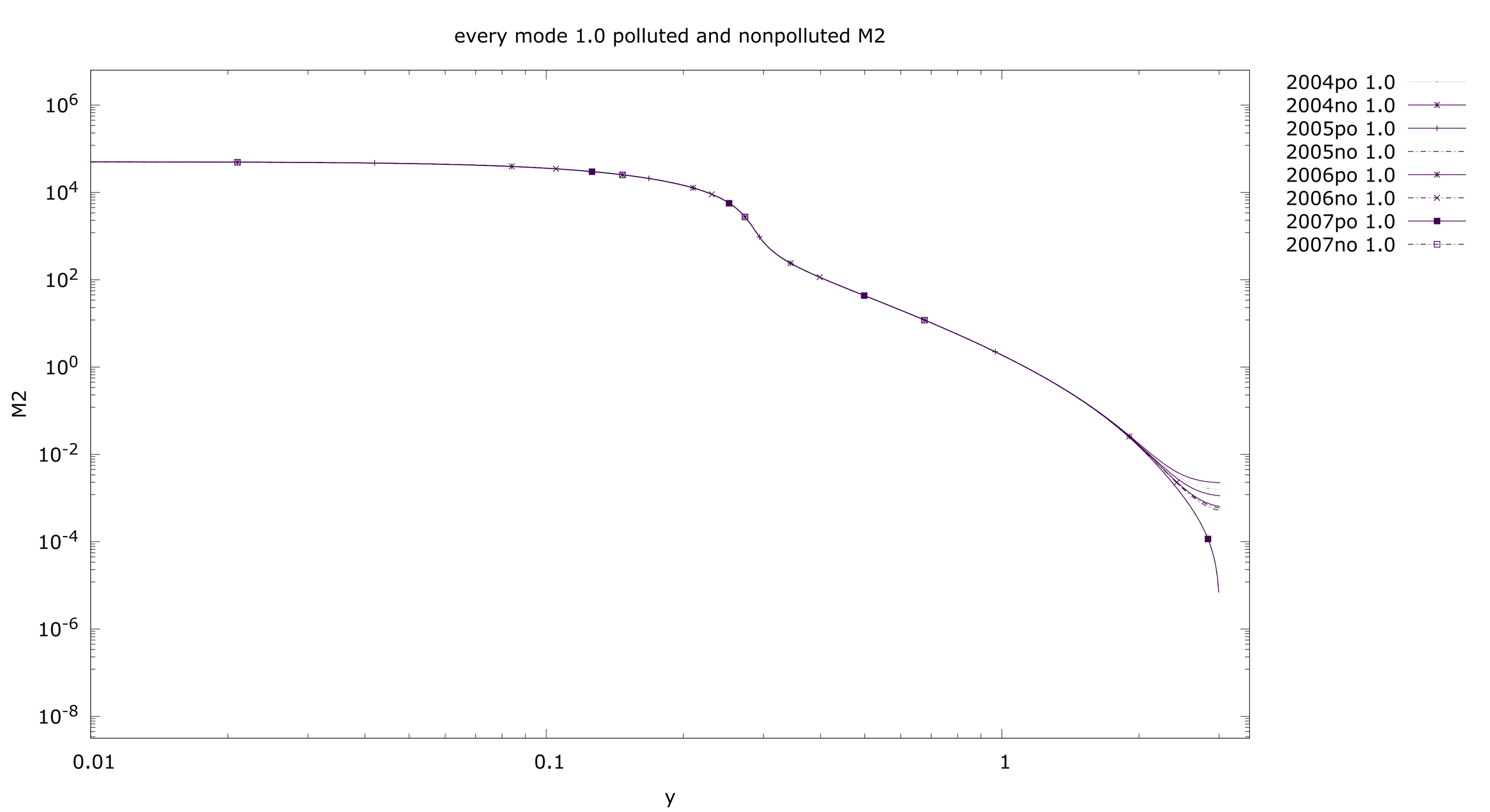
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10^{4}
10^{2}
10^{0}
10^{-2}
10^{-4}
10^{-6}
10^{-8}
0.01
0.1
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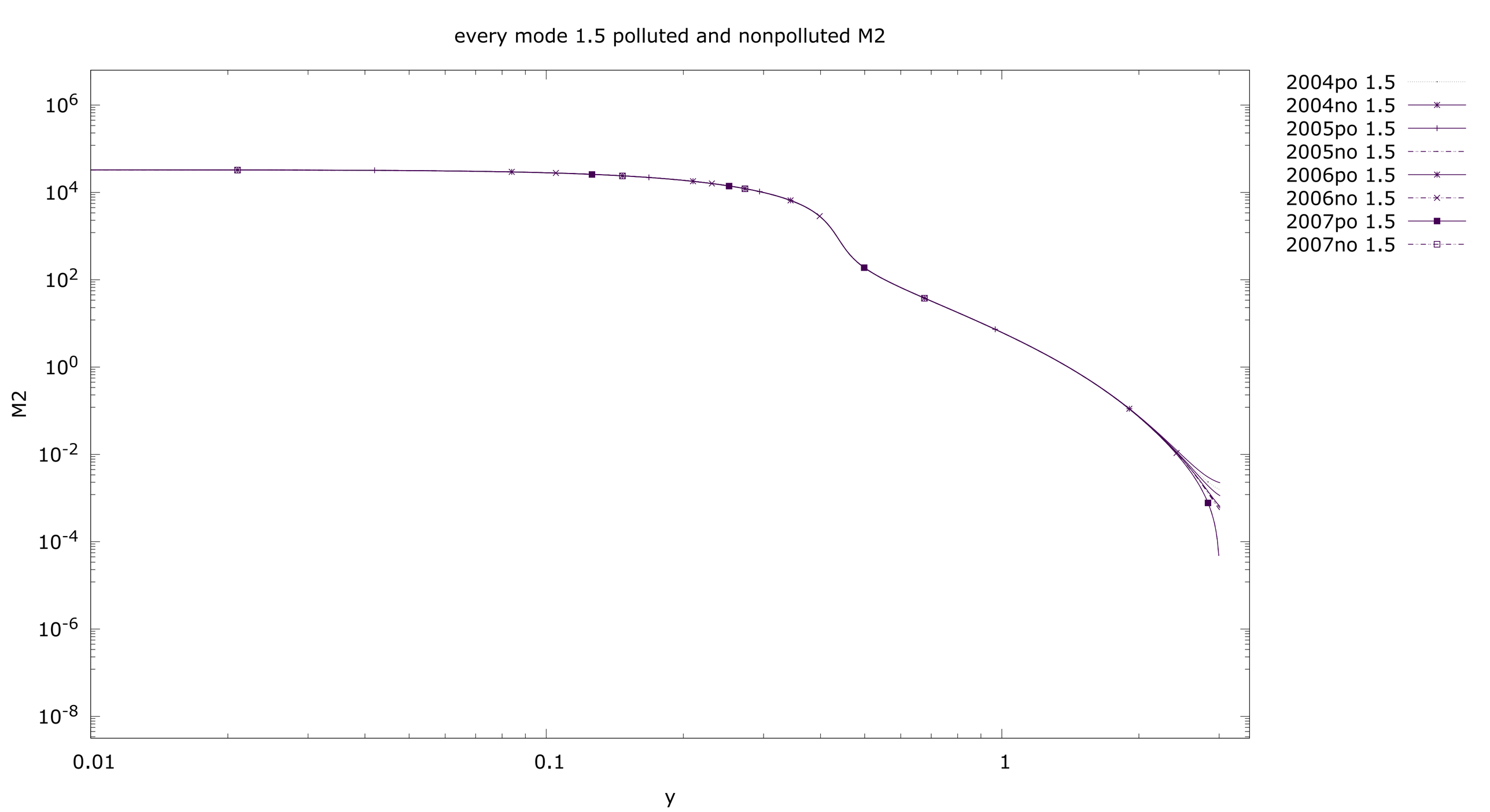
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10^{2}
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10^{-8}
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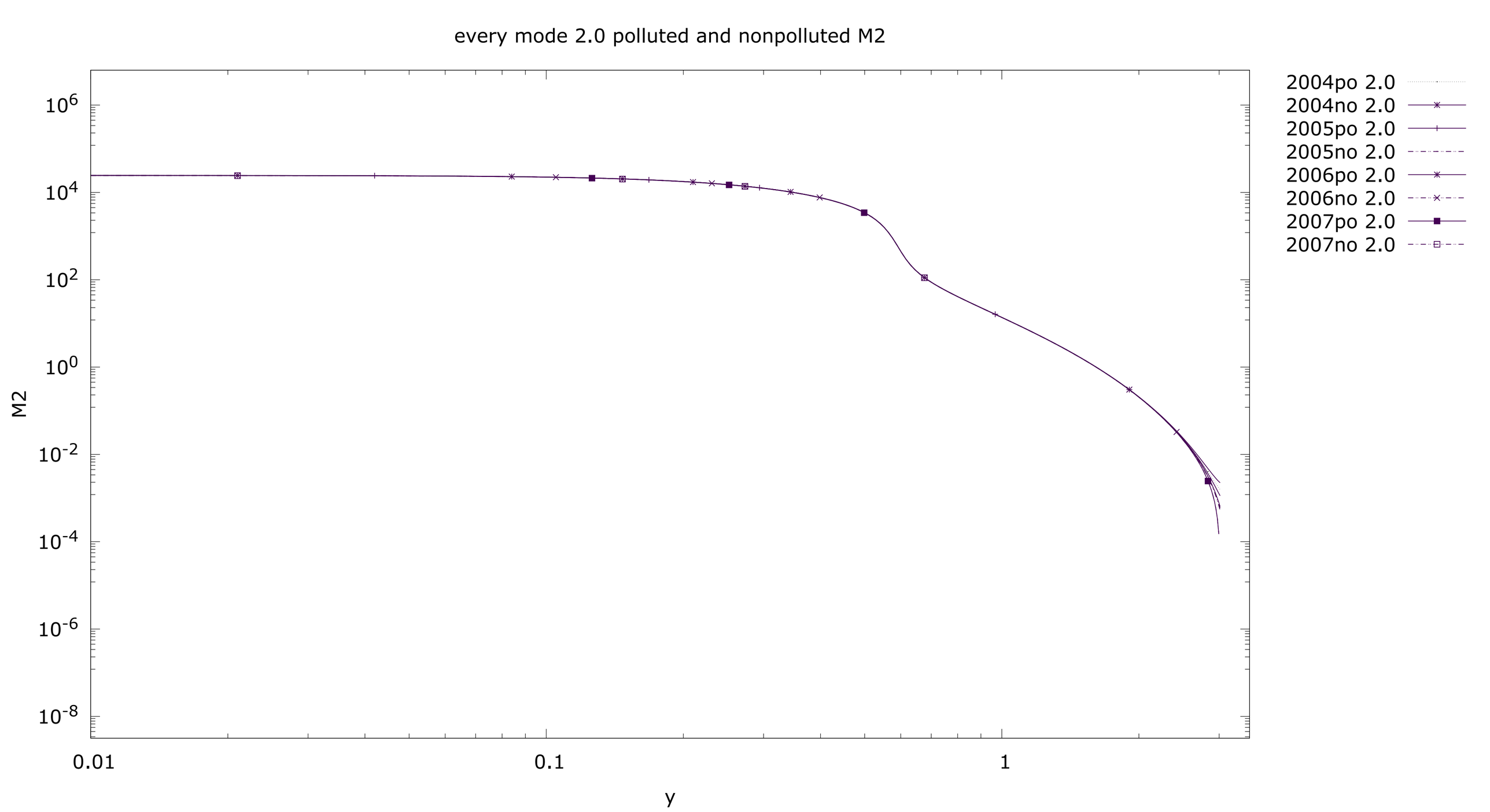
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10^{2}
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10^{-6}
10^{-8}
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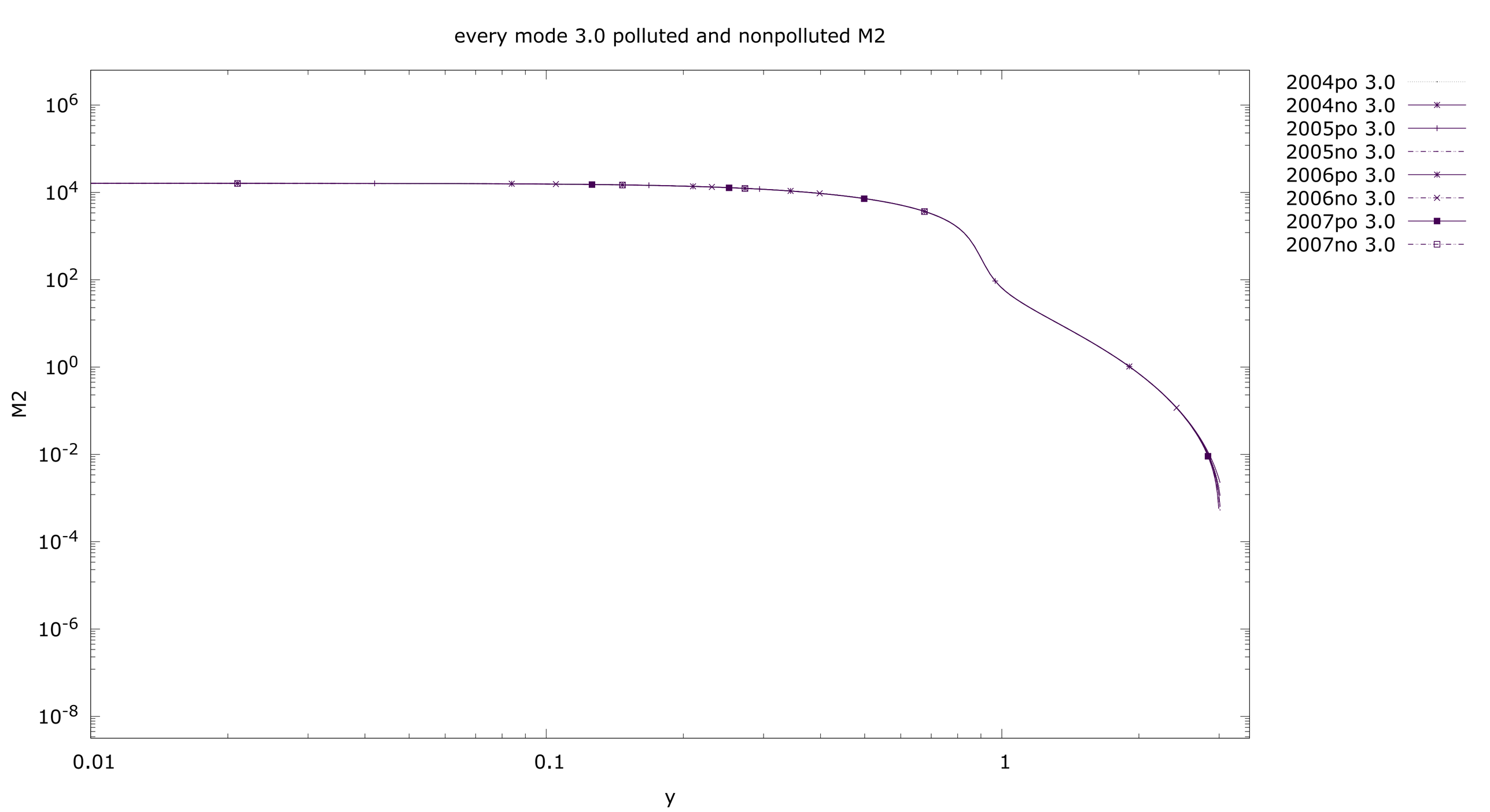
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10^{4}
10^{2}
10^{0}
10^{-2}
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10^{-8}
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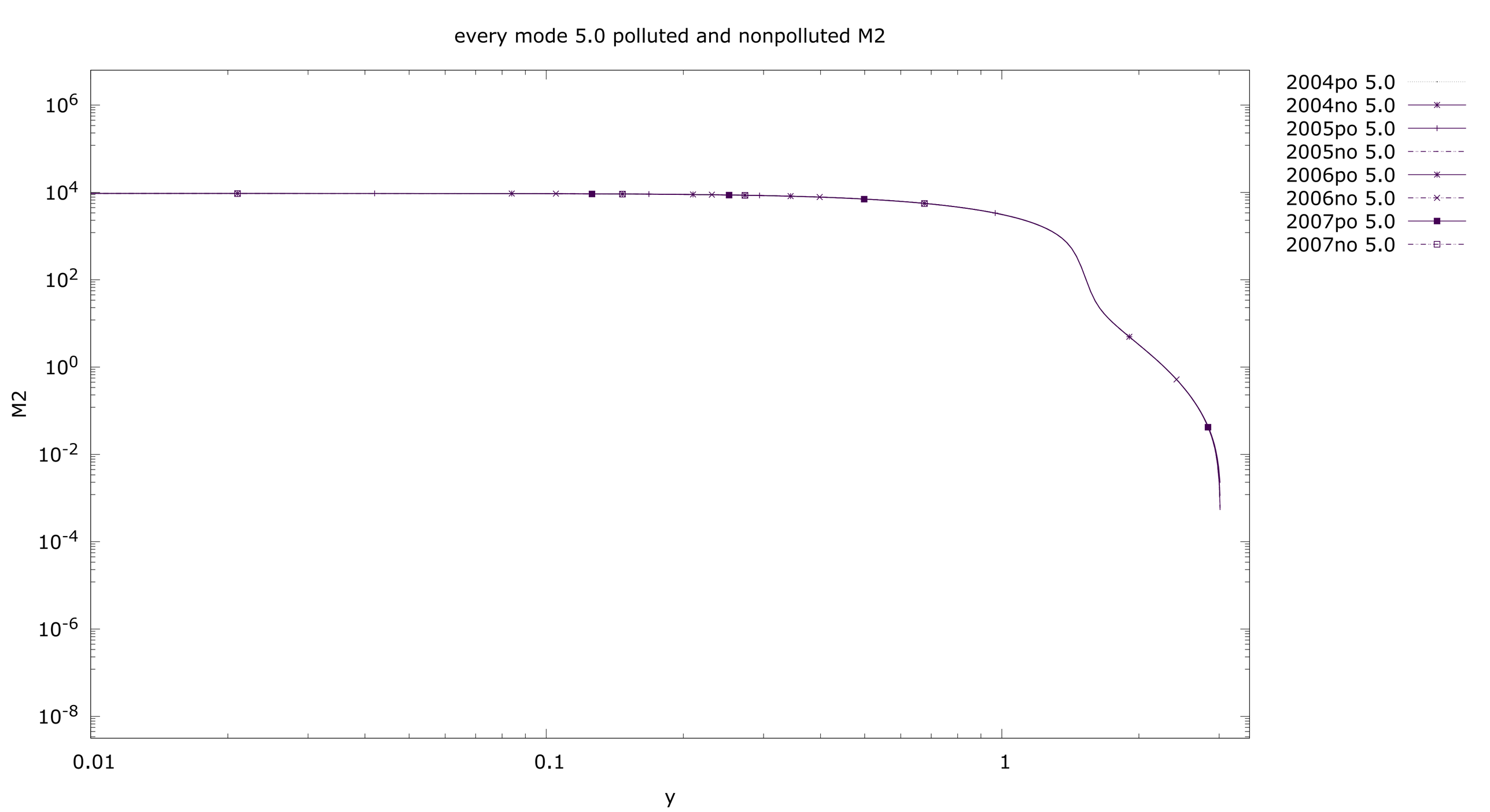
every mode 5.0 polluted and nonpolluted M2
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10^{-8}
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0.1
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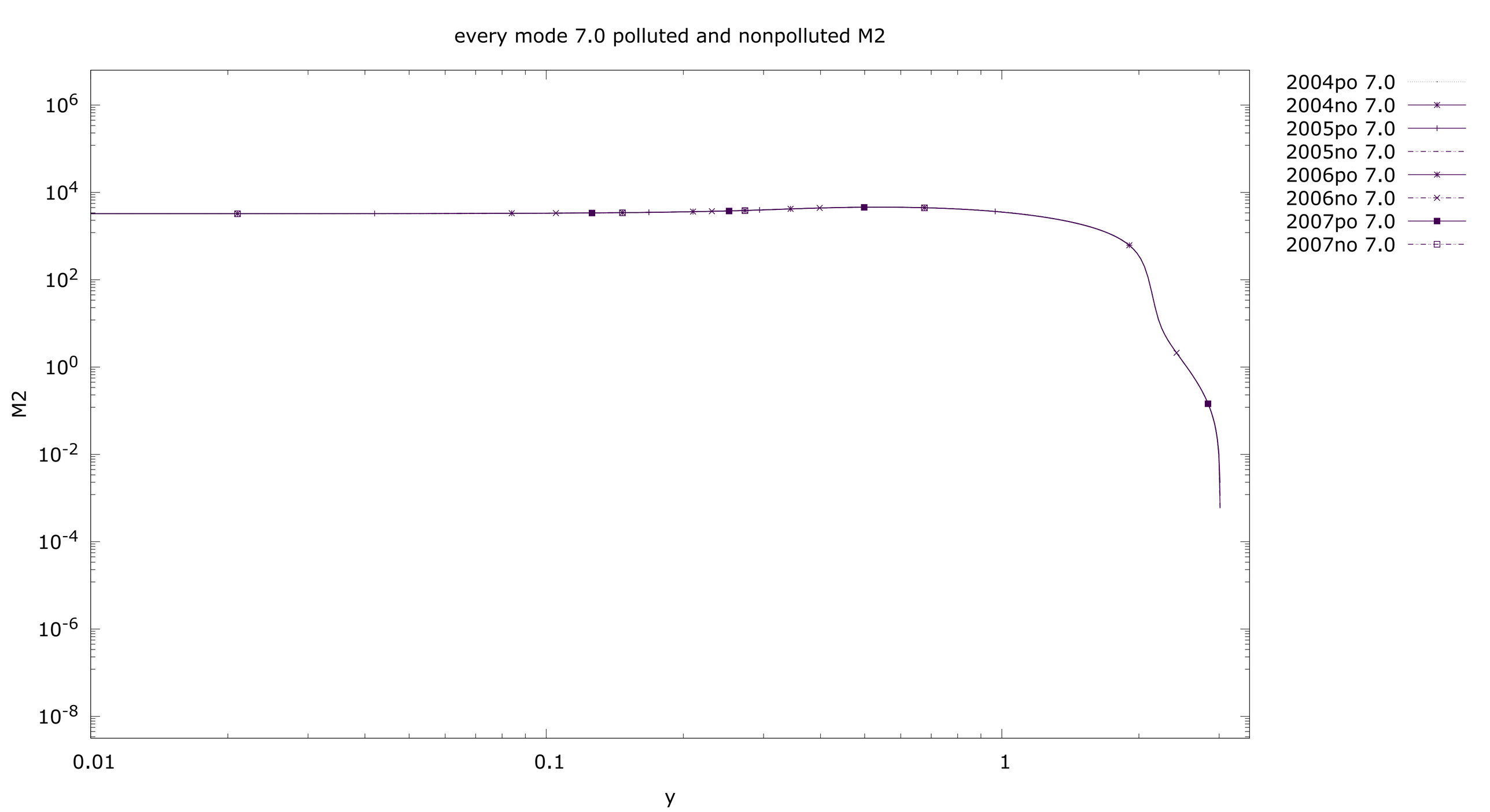
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2007no 7.0
M2
y
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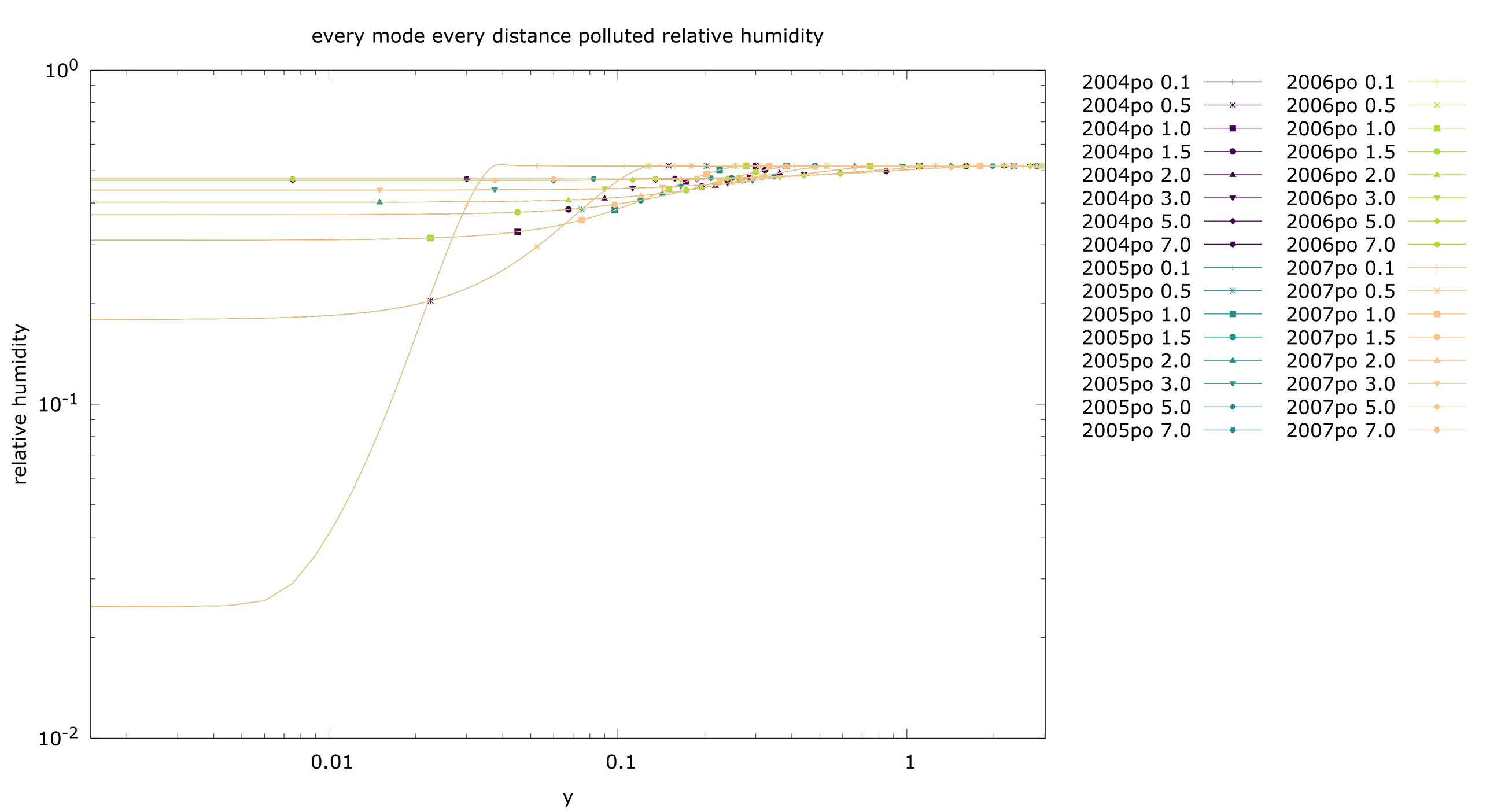
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relative humidity
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10^{-1}
10^{-2}
0.01
0.1
1
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2004po 0.5
2004po 1.0
2004po 1.5
2004po 2.0
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2004po 5.0
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2005po 0.5
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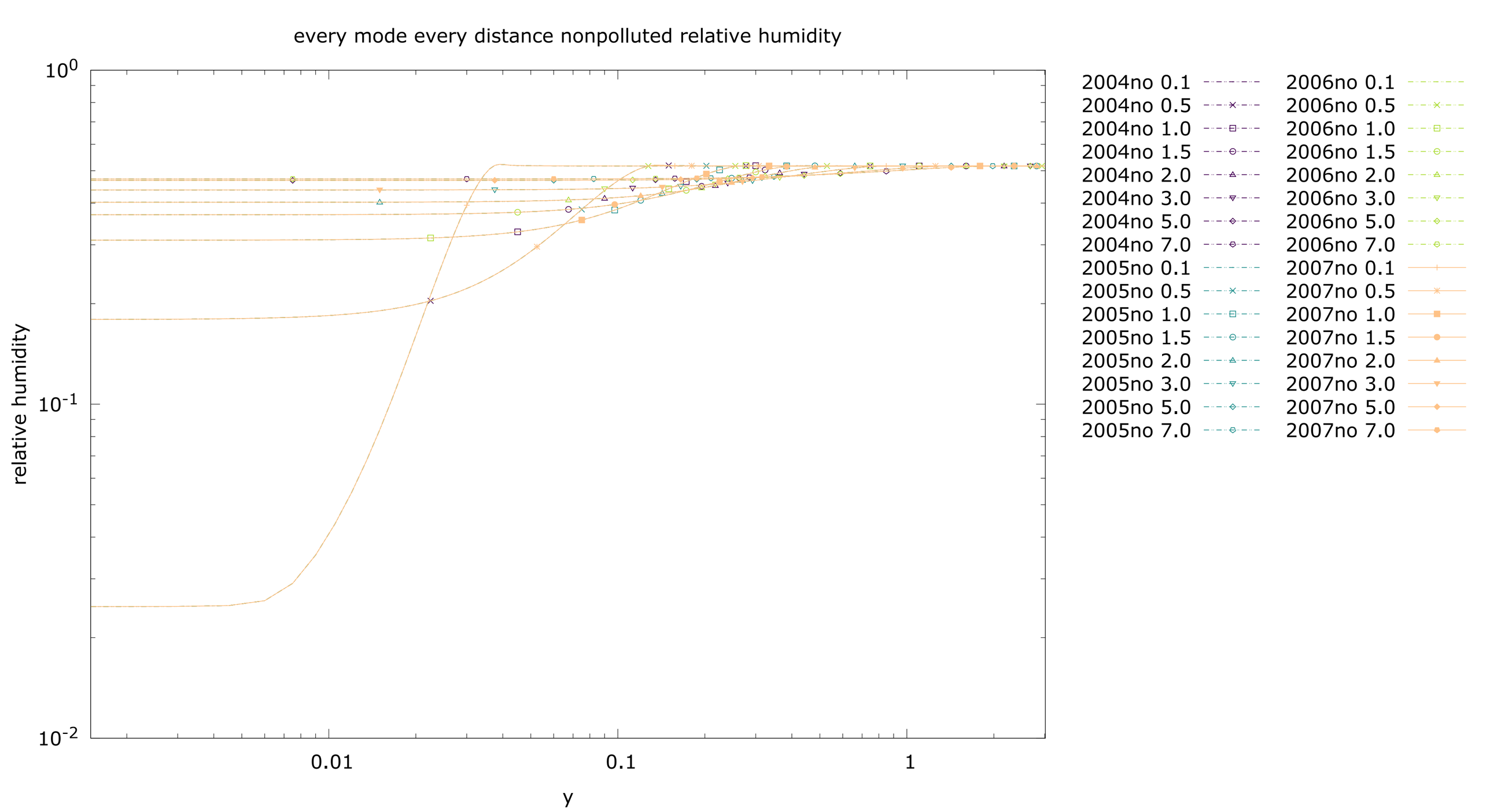
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10^{-2}
0.01
0.1
1
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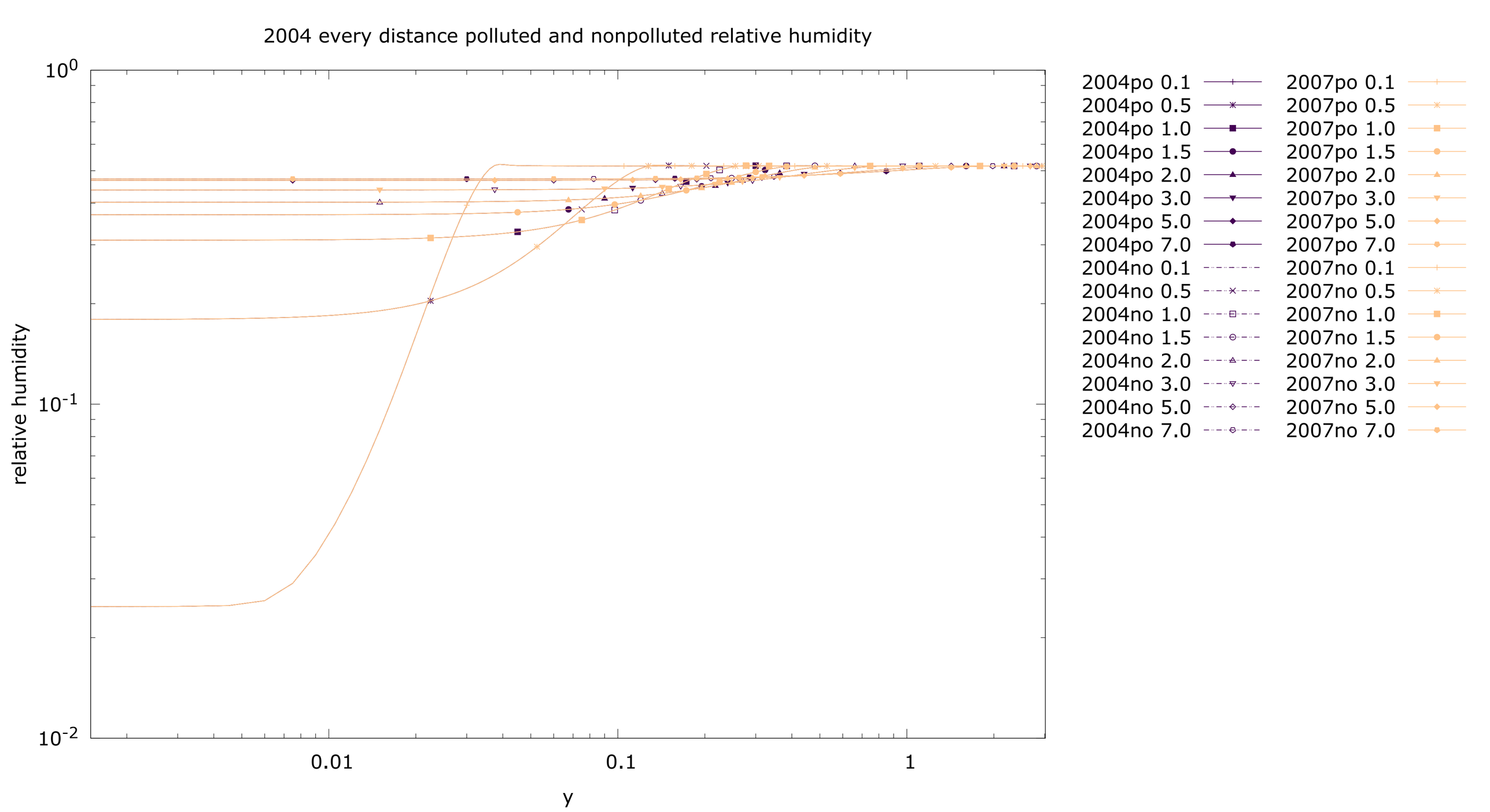
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relative humidity
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10^{-1}
10^{-2}
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0.1
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2004po 0.1
2004po 0.5
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2004po 1.5
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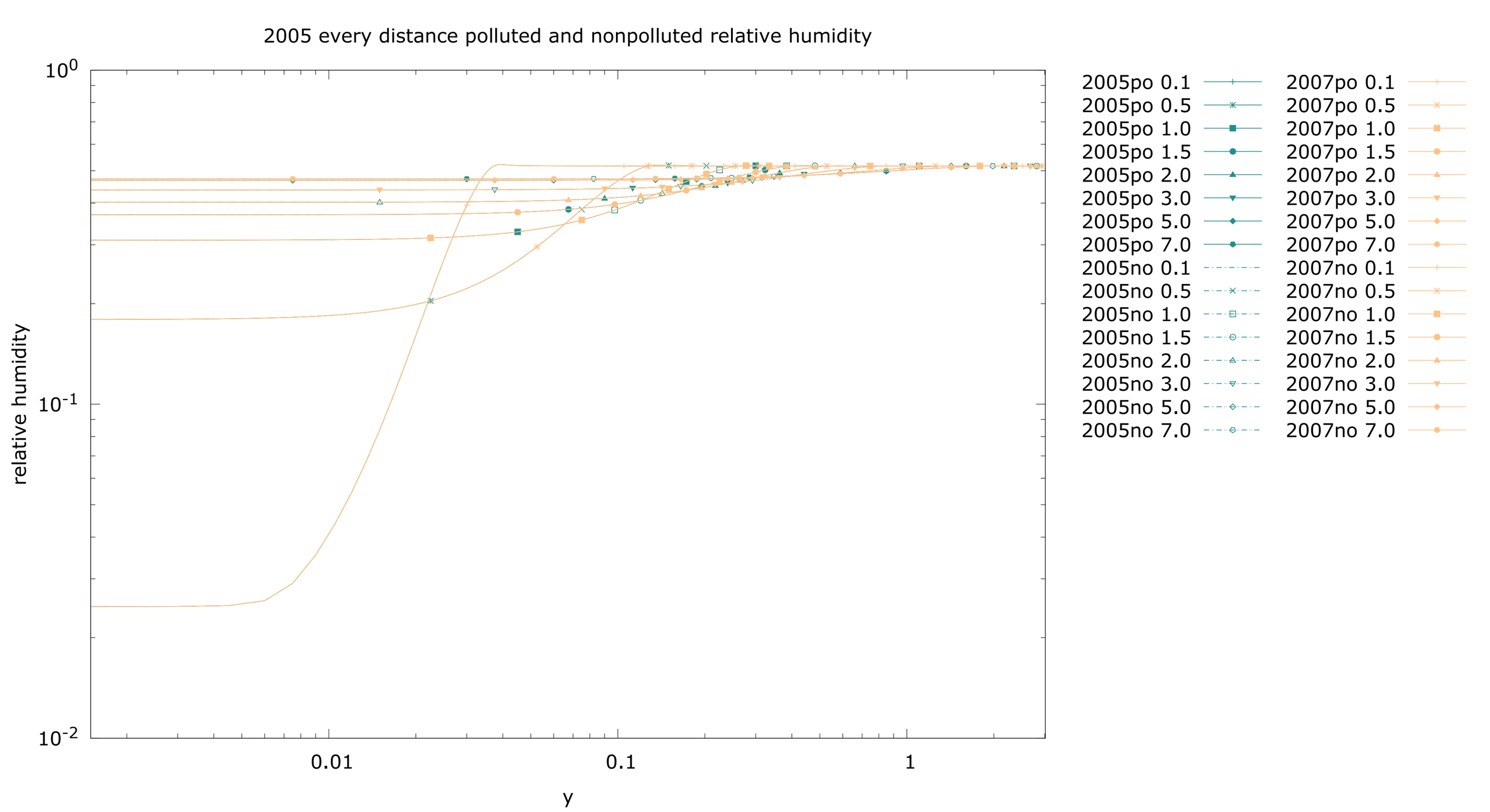
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relative humidity
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10^{-1}
10^{-2}
0.01
0.1
1
2005po 0.1
2005po 0.5
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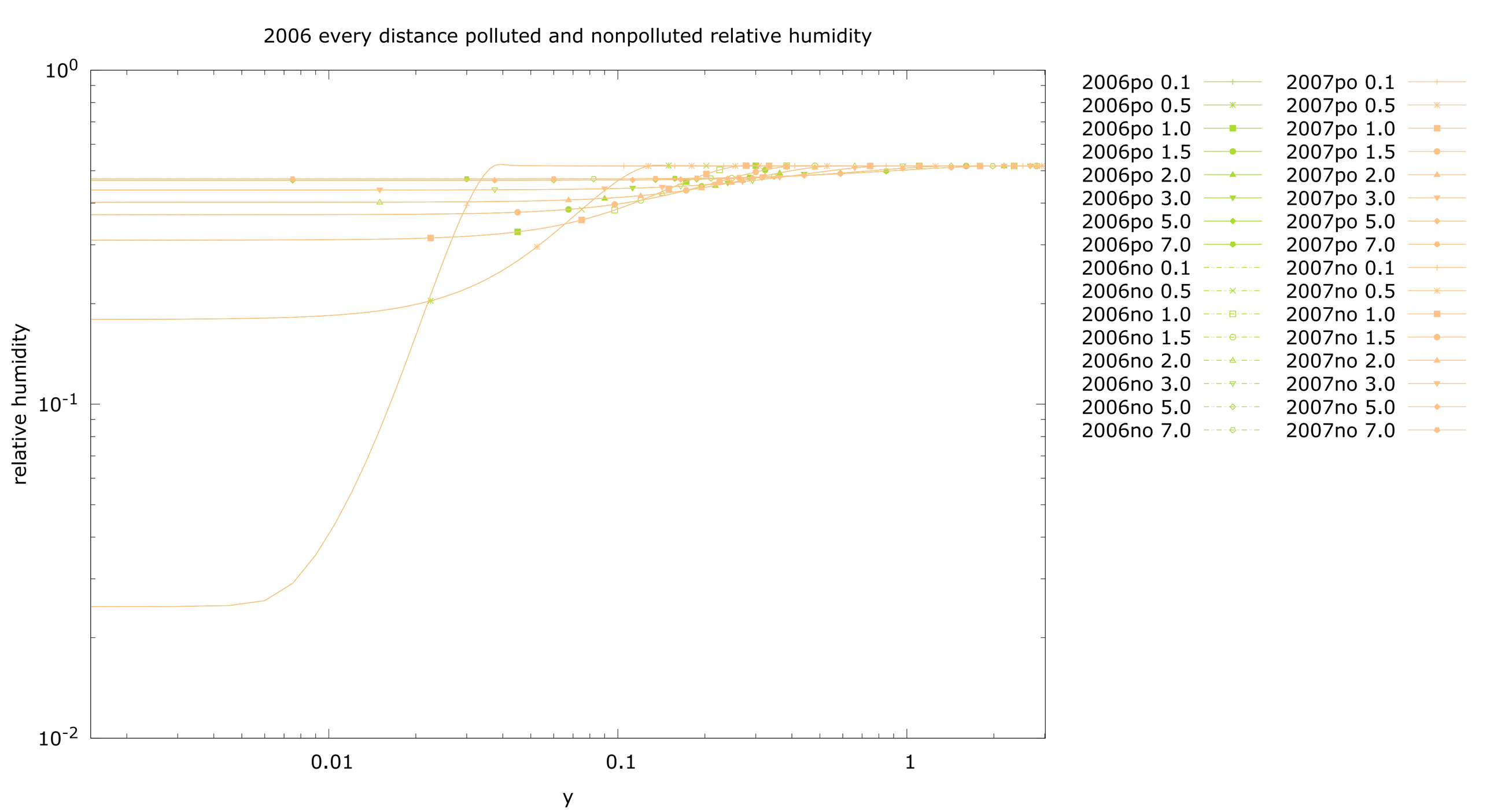
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relative humidity
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10^{-1}
10^{-2}
0.01
0.1
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2006po 0.1
2006po 0.5
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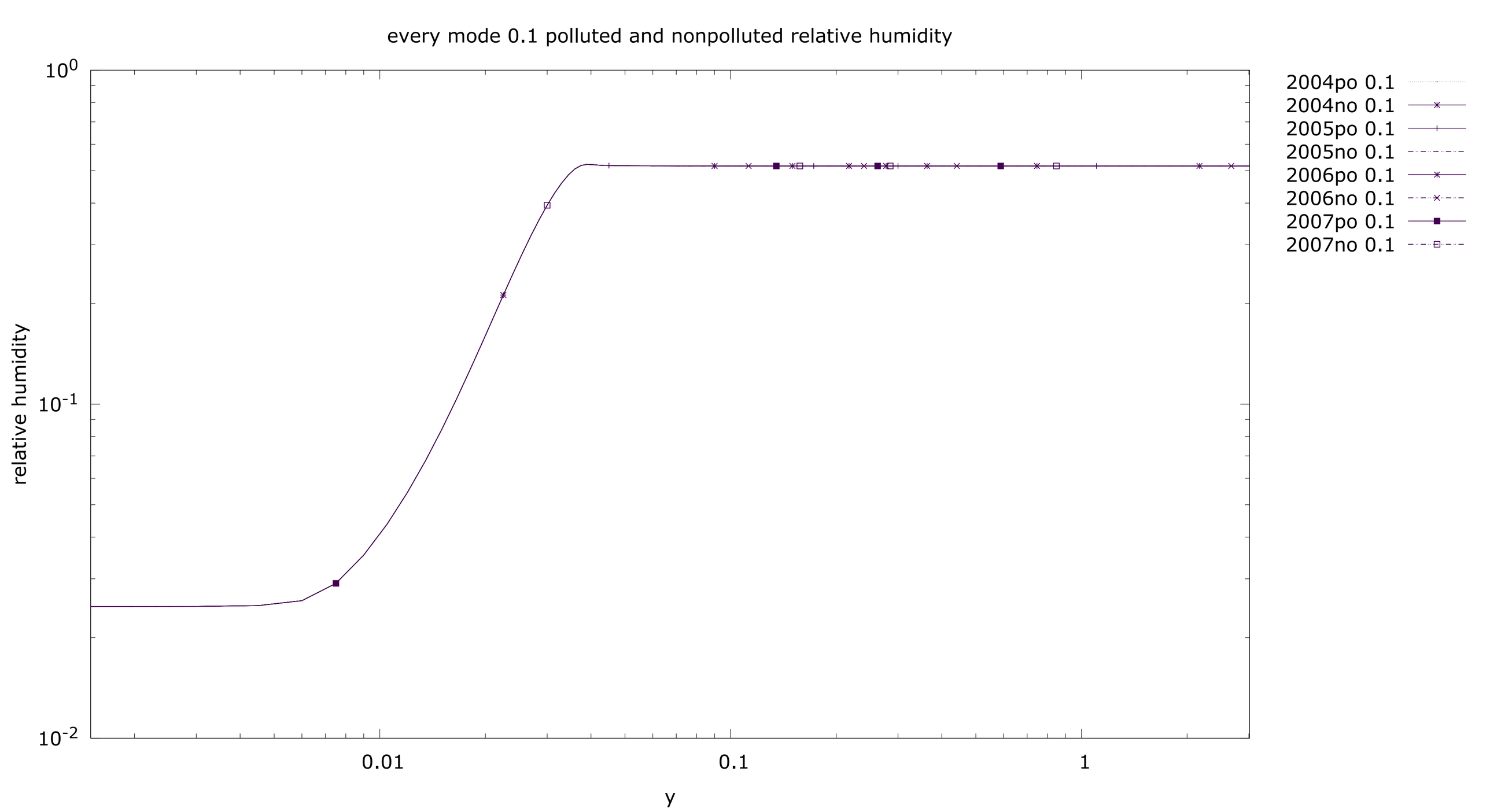
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relative humidity
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10^{-2}
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0.1
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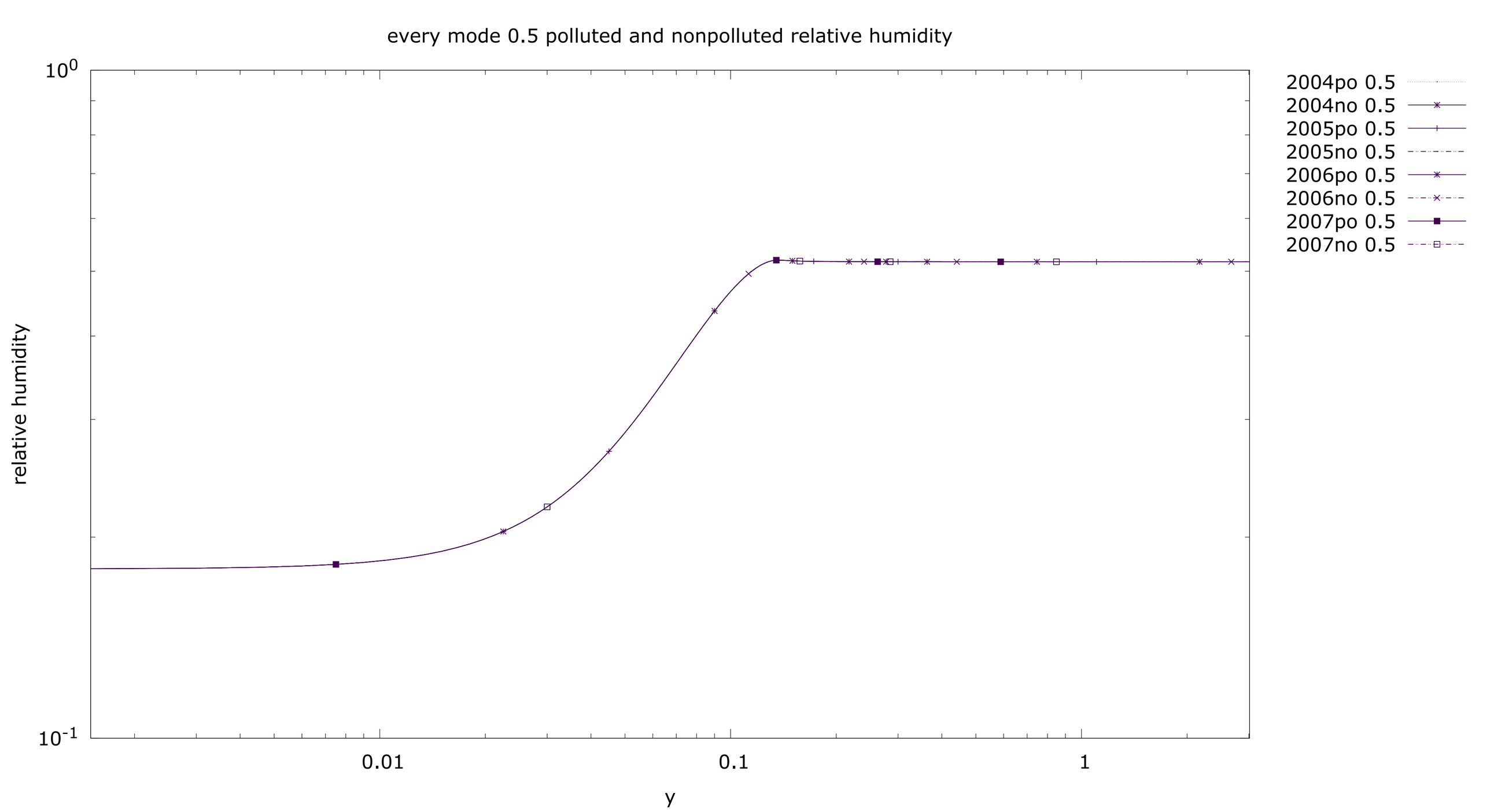
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10^{-1}
relative humidity
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0.1
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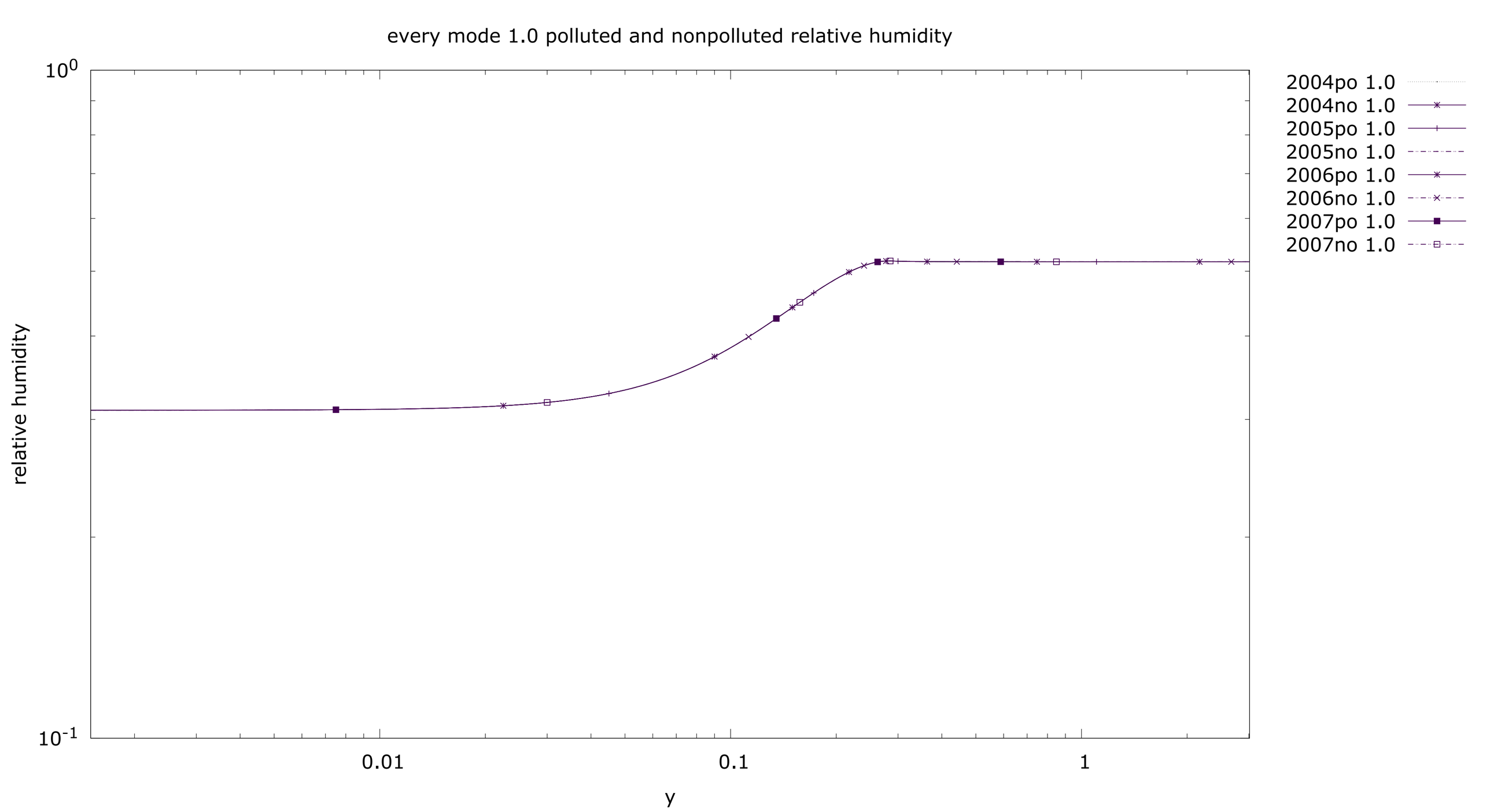
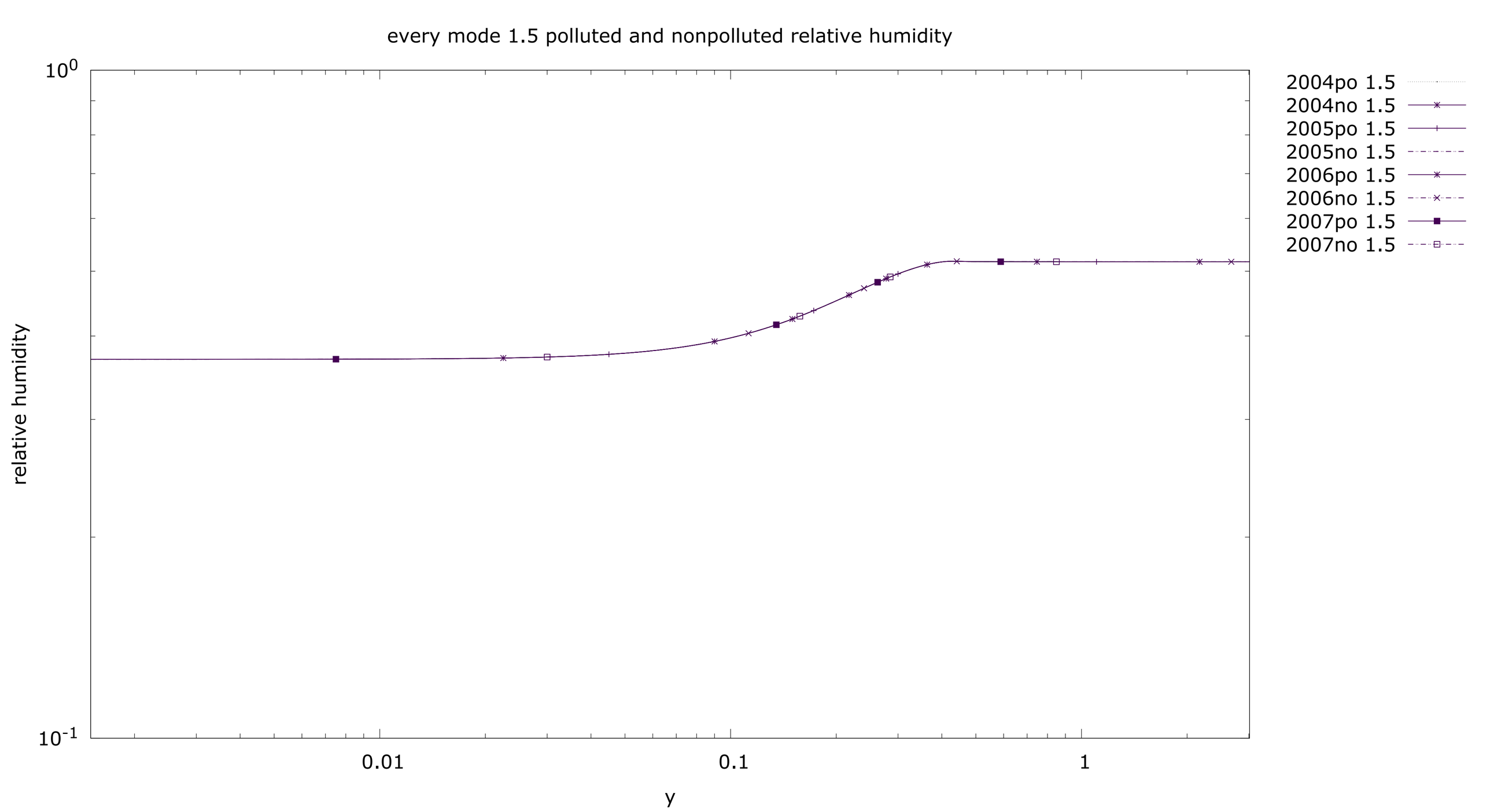
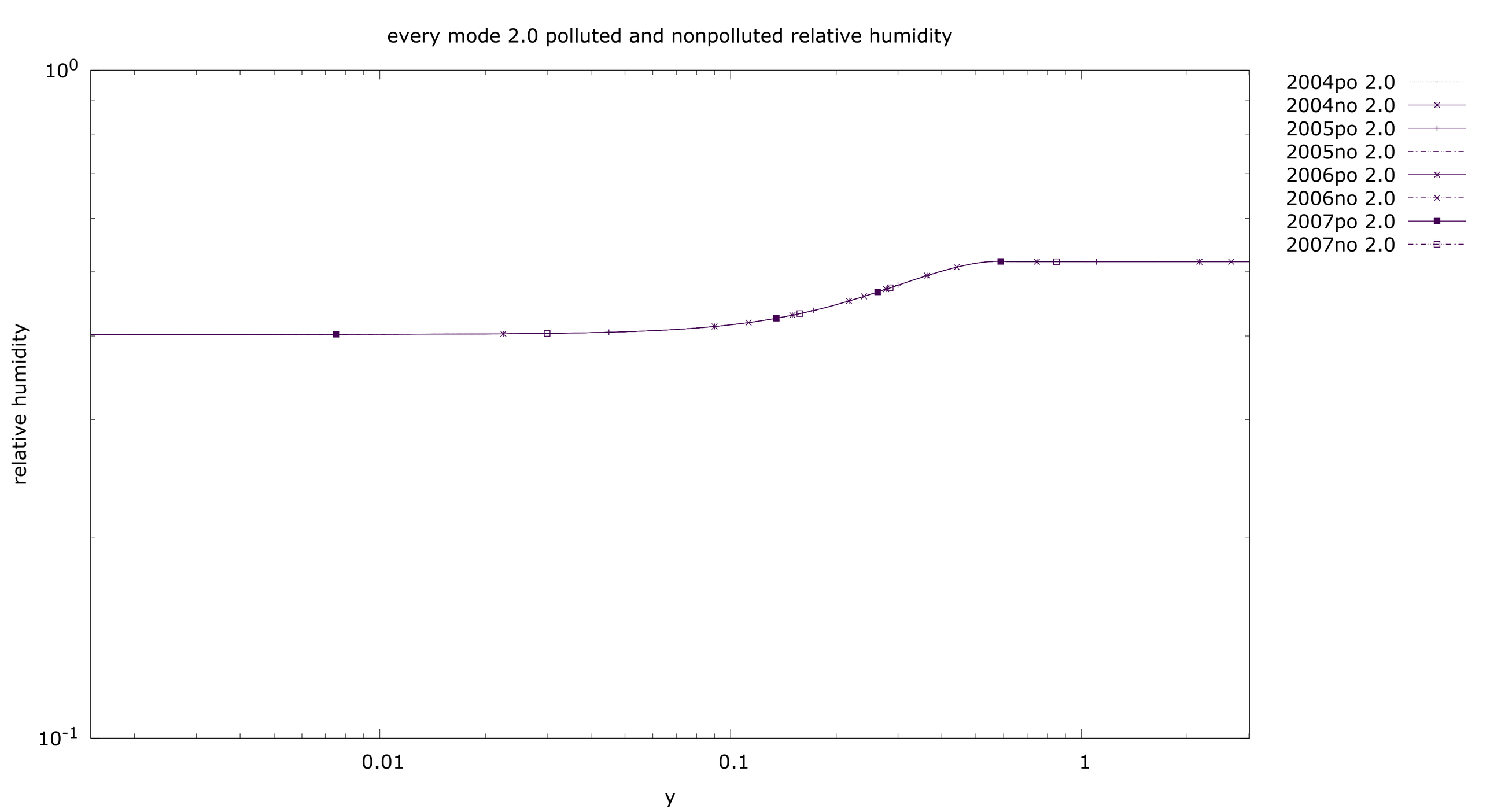
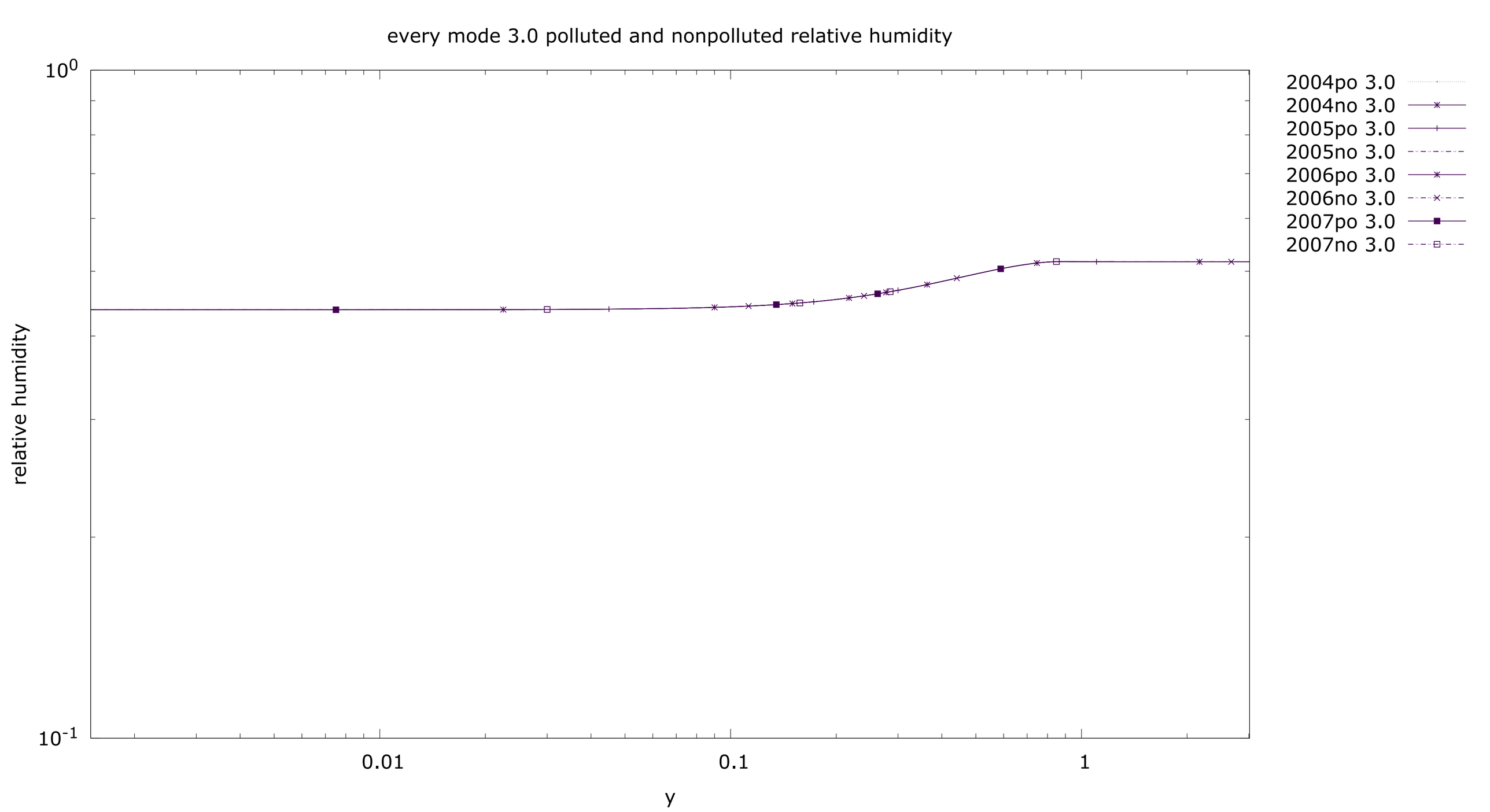
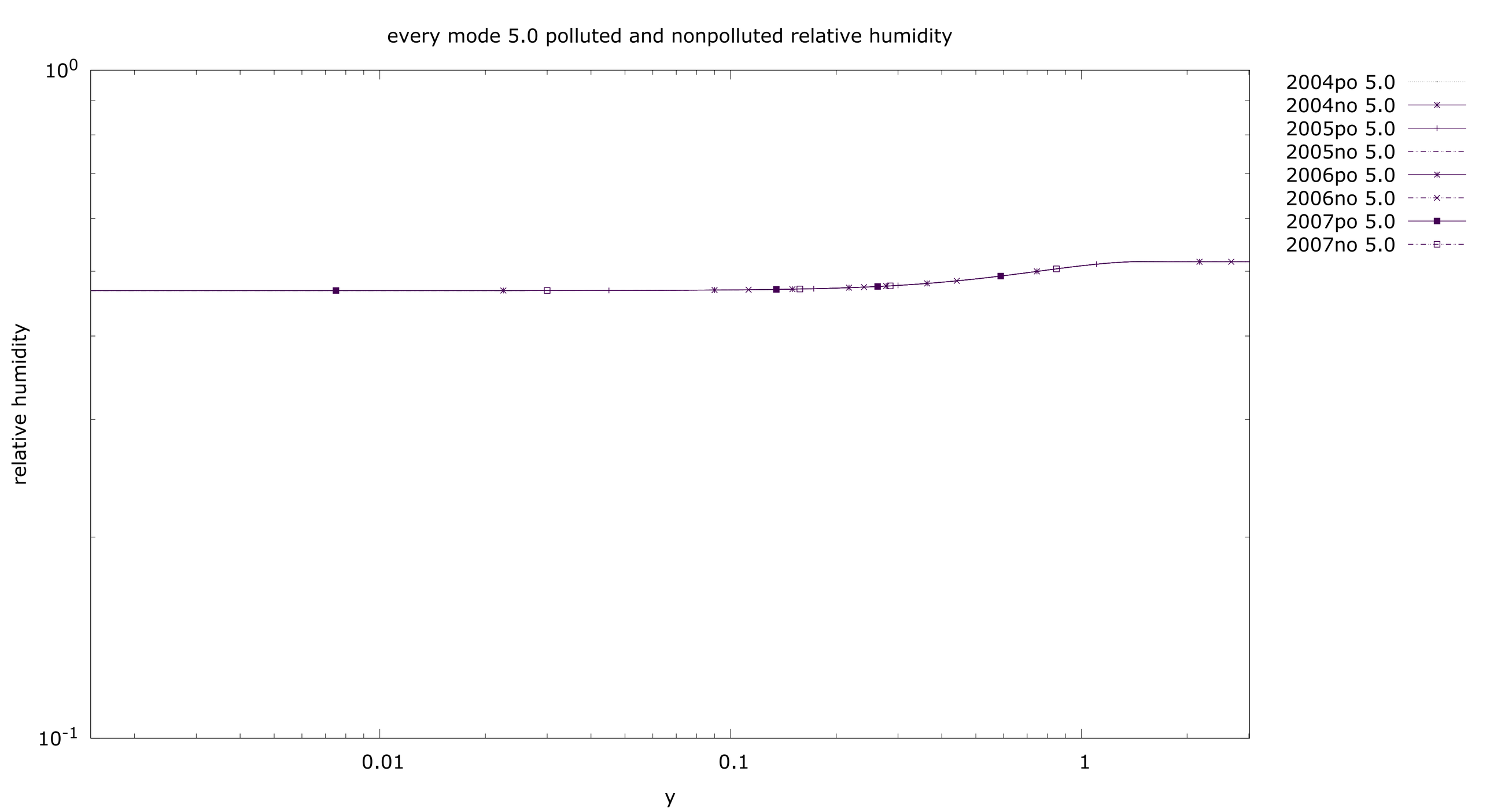
2005po 0.5
2005no 0.5
2006po 0.5
2006no 0.5
2007po 0.5
2007no 0.5

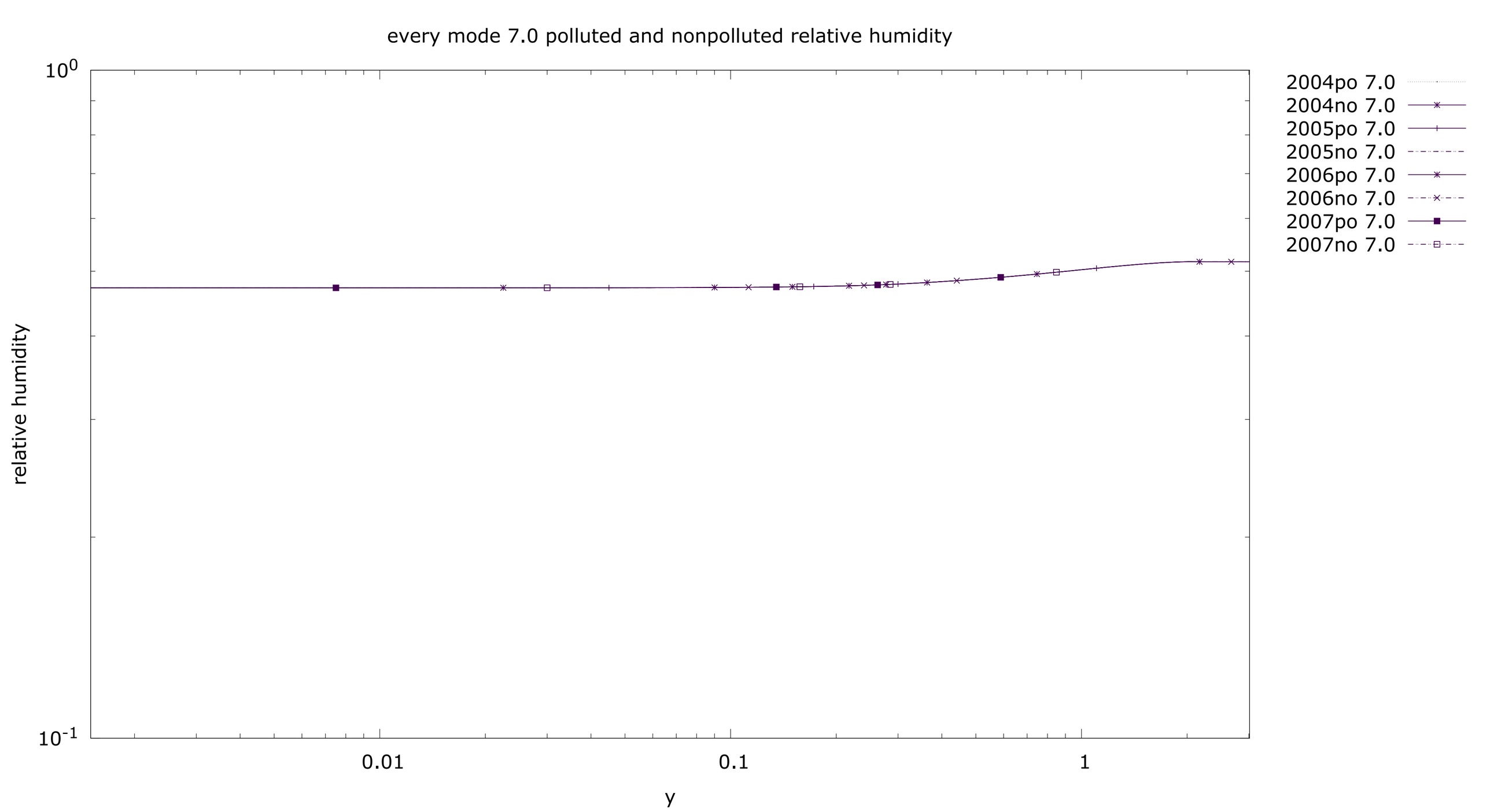

every mode 1.0 polluted and nonpolluted relative humidity
10^0
10^{-1}
relative humidity
0.01
0.1
1
y
2004po 1.0
2004no 1.0
2005po 1.0
2005no 1.0
2006po 1.0
2006no 1.0
2007po 1.0
2007no 1.0

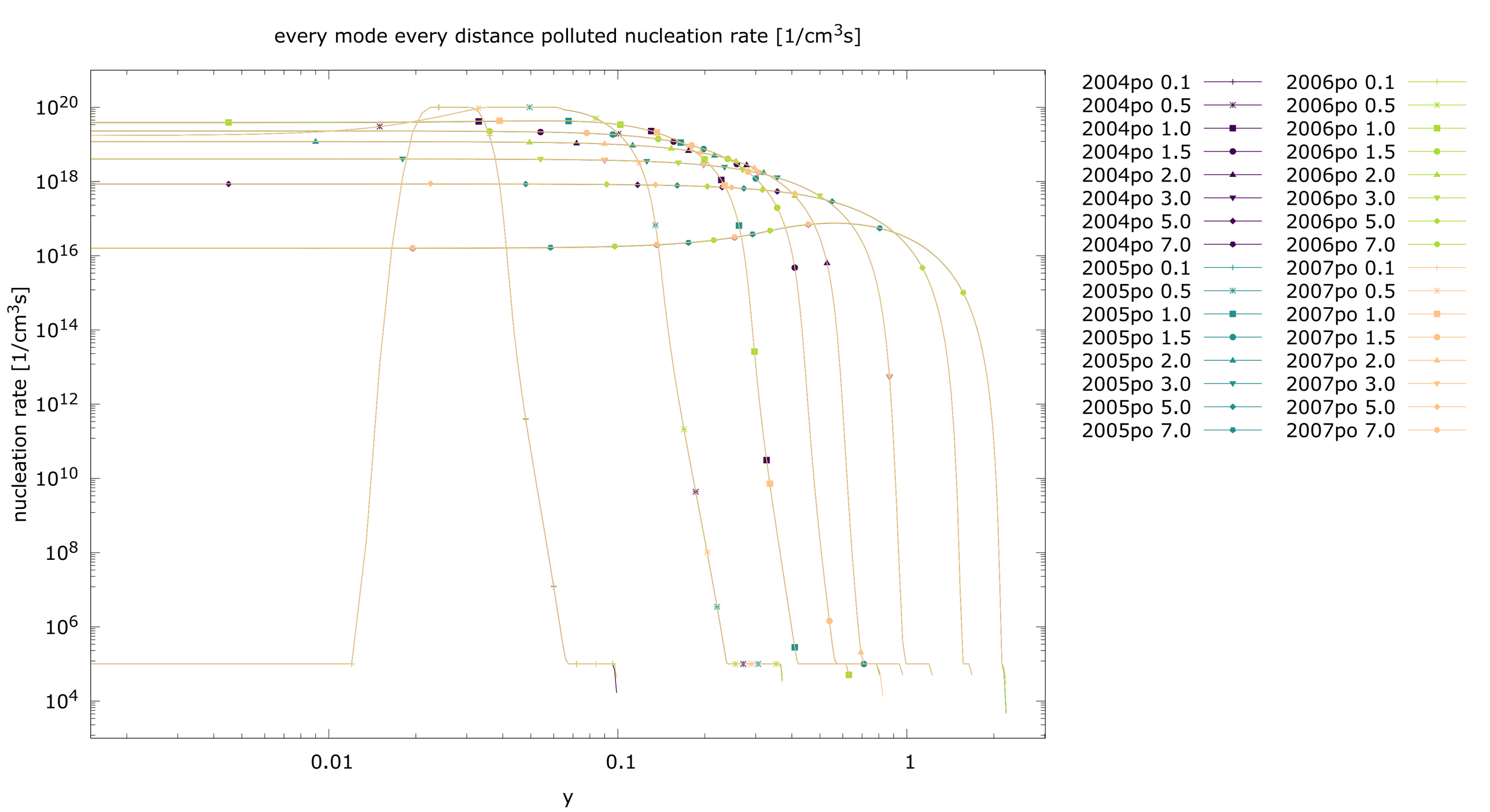

every mode 1.5 polluted and nonpolluted relative humidity
10^0
10^{-1}
relative humidity
0.01
0.1
1
y
2004po 1.5
2004no 1.5
2005po 1.5
2005no 1.5
2006po 1.5
2006no 1.5
2007po 1.5
2007no 1.5

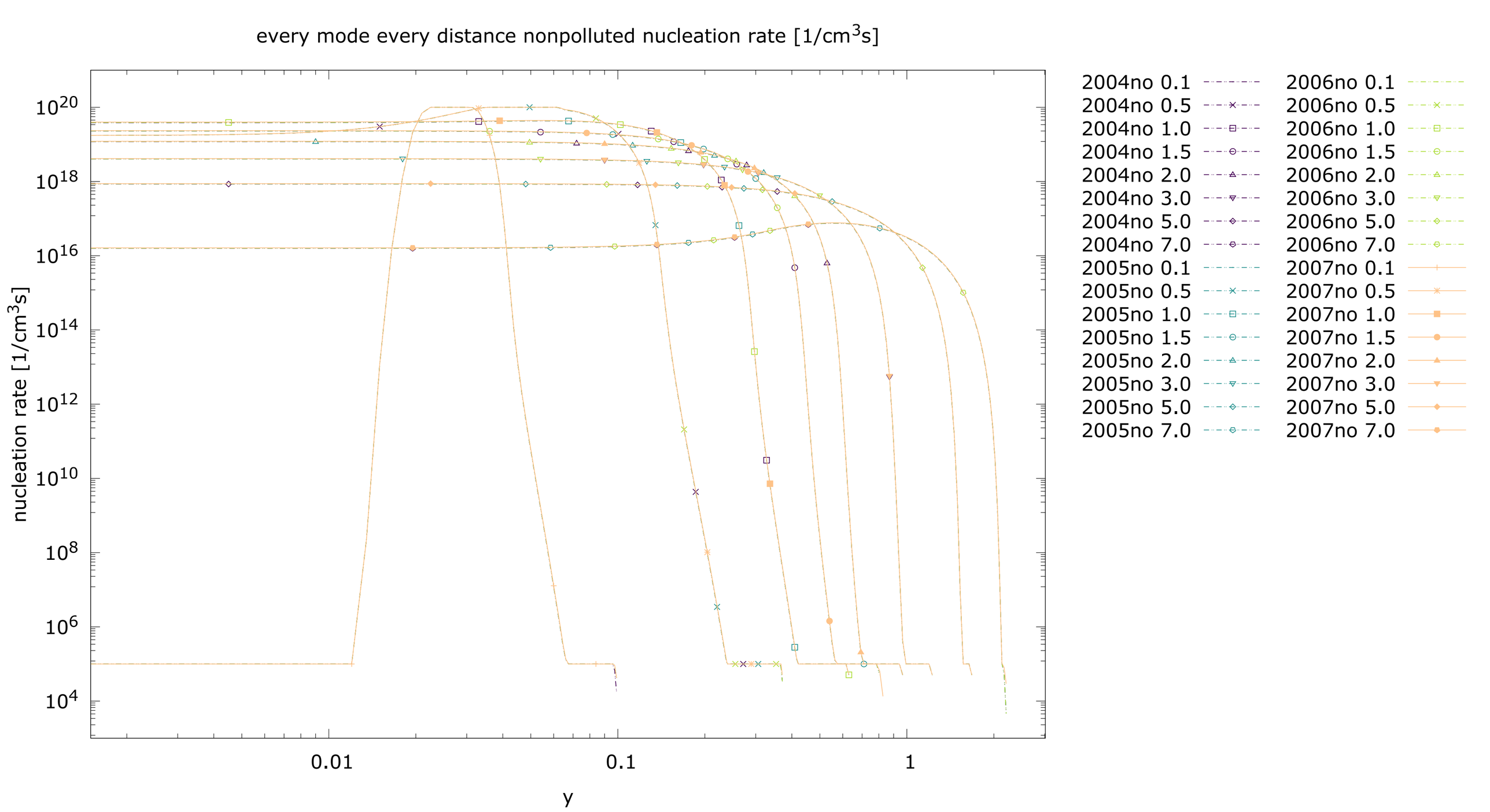

every mode 2.0 polluted and nonpolluted relative humidity
10^0
10^{-1}
relative humidity
0.01
0.1
1
y
2004po 2.0
2004no 2.0
2005po 2.0
2005no 2.0
2006po 2.0
2006no 2.0
2007po 2.0
2007no 2.0

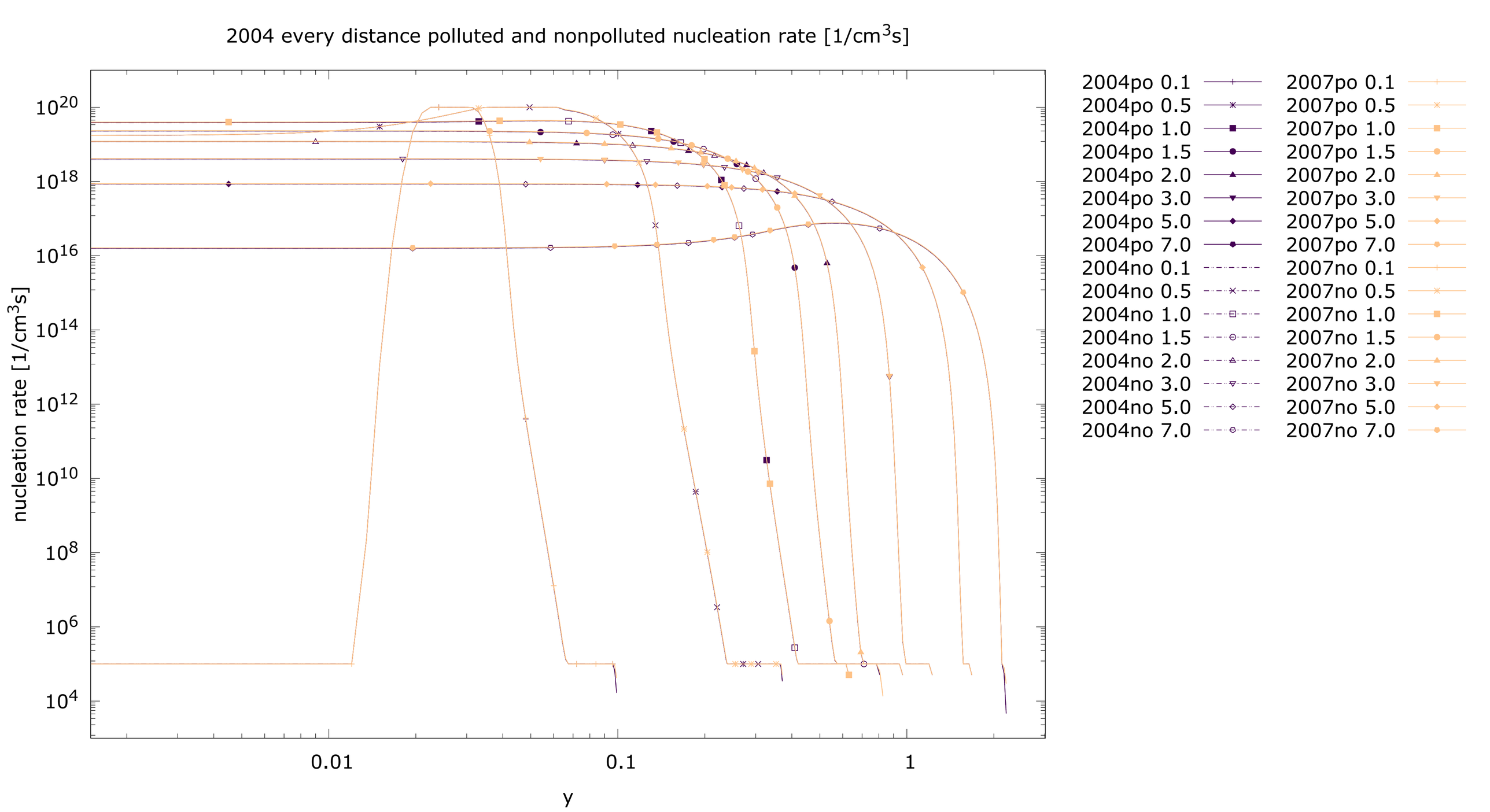

every mode 3.0 polluted and nonpolluted relative humidity
10^0
10^{-1}
relative humidity
0.01
0.1
1
y
2004po 3.0
2004no 3.0
2005po 3.0
2005no 3.0
2006po 3.0
2006no 3.0
2007po 3.0
2007no 3.0

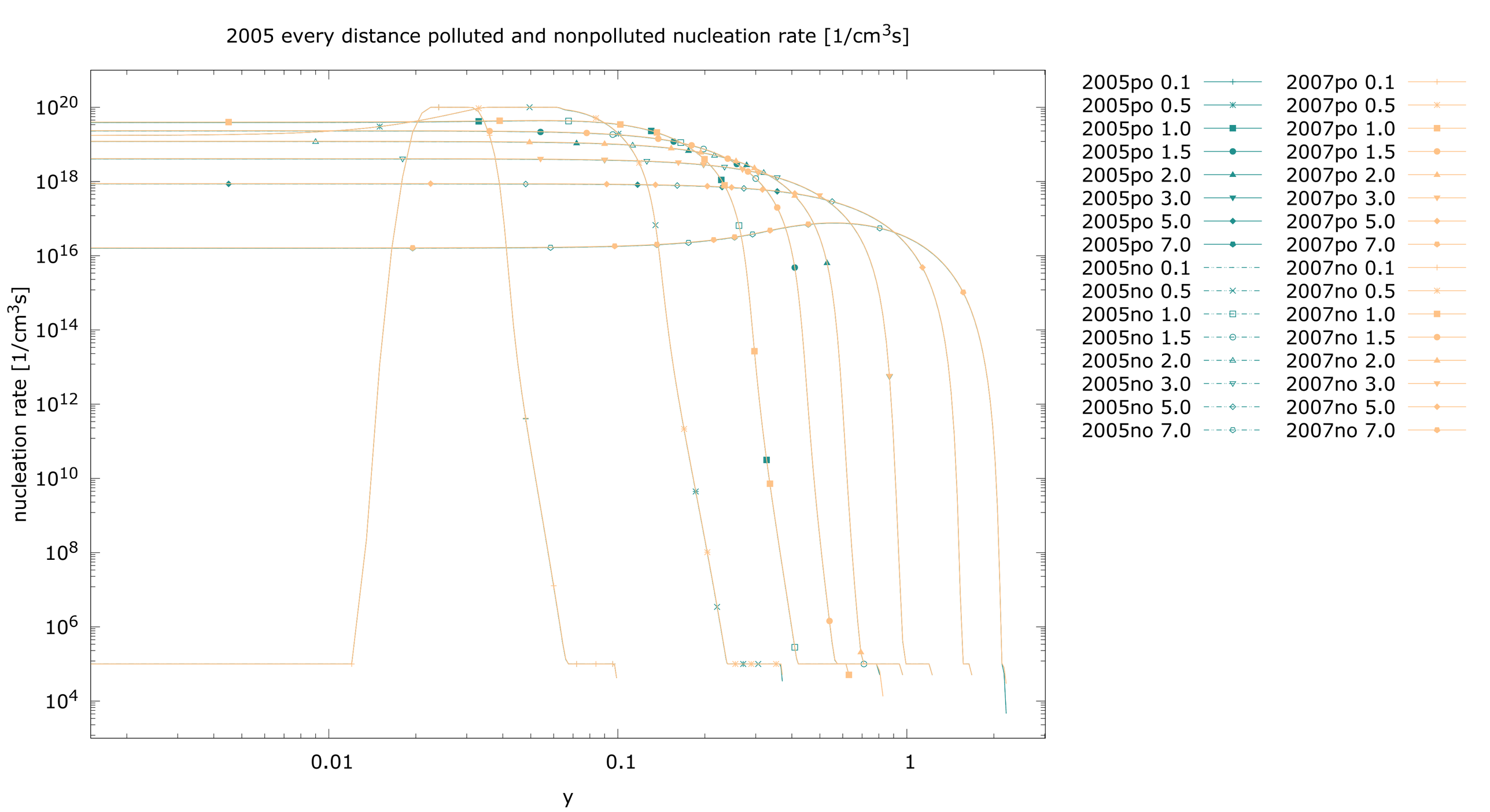

every mode 5.0 polluted and nonpolluted relative humidity
10^0
10^{-1}
relative humidity
0.01
0.1
1
y
2004po 5.0
2004no 5.0
2005po 5.0
2005no 5.0
2006po 5.0
2006no 5.0
2007po 5.0
2007no 5.0

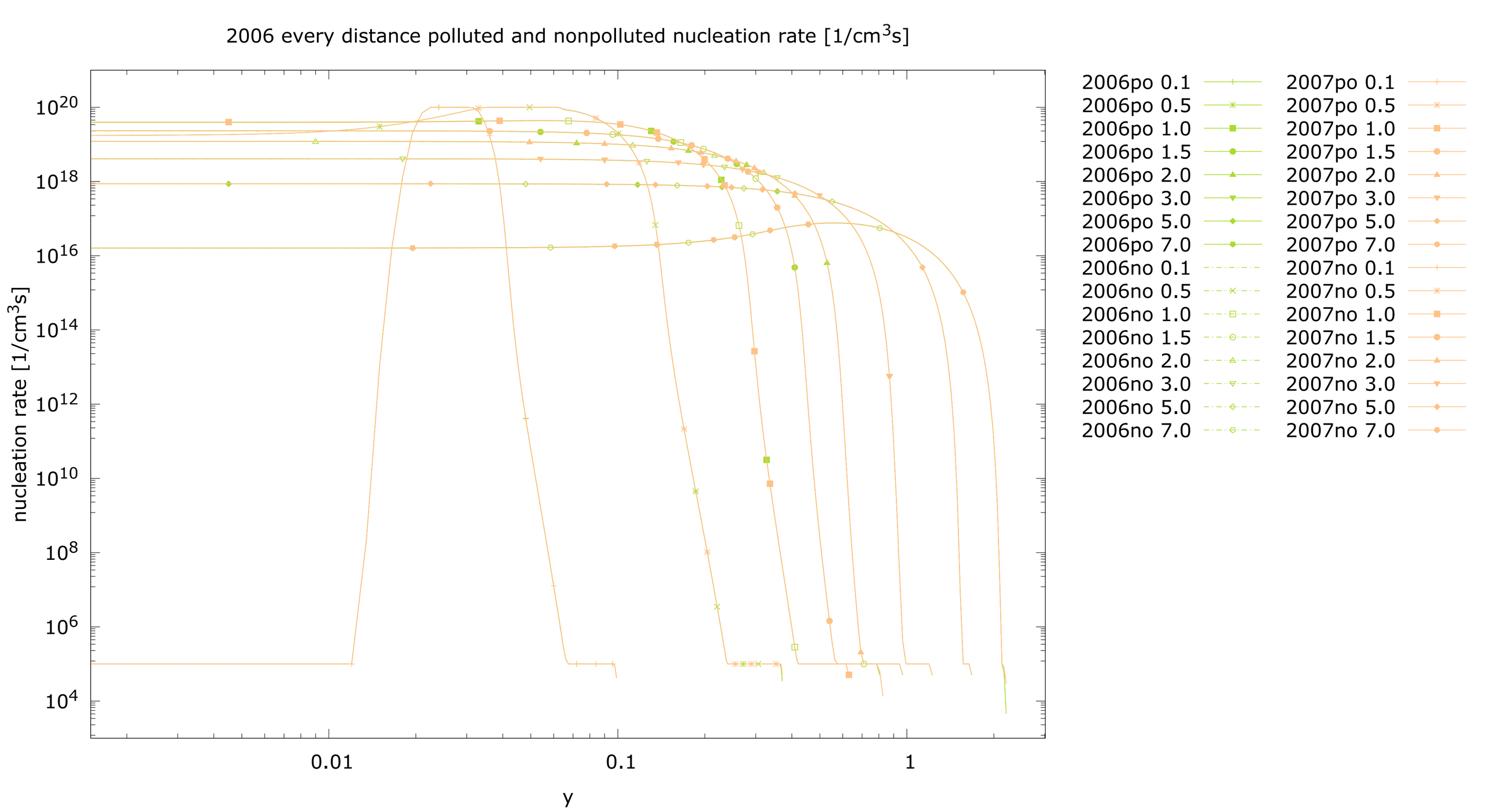

every mode 7.0 polluted and nonpolluted relative humidity
10^0
10^{-1}
relative humidity
0.01
0.1
1
y
2004po 7.0
2004no 7.0
2005po 7.0
2005no 7.0
2006po 7.0
2006no 7.0
2007po 7.0
2007no 7.0

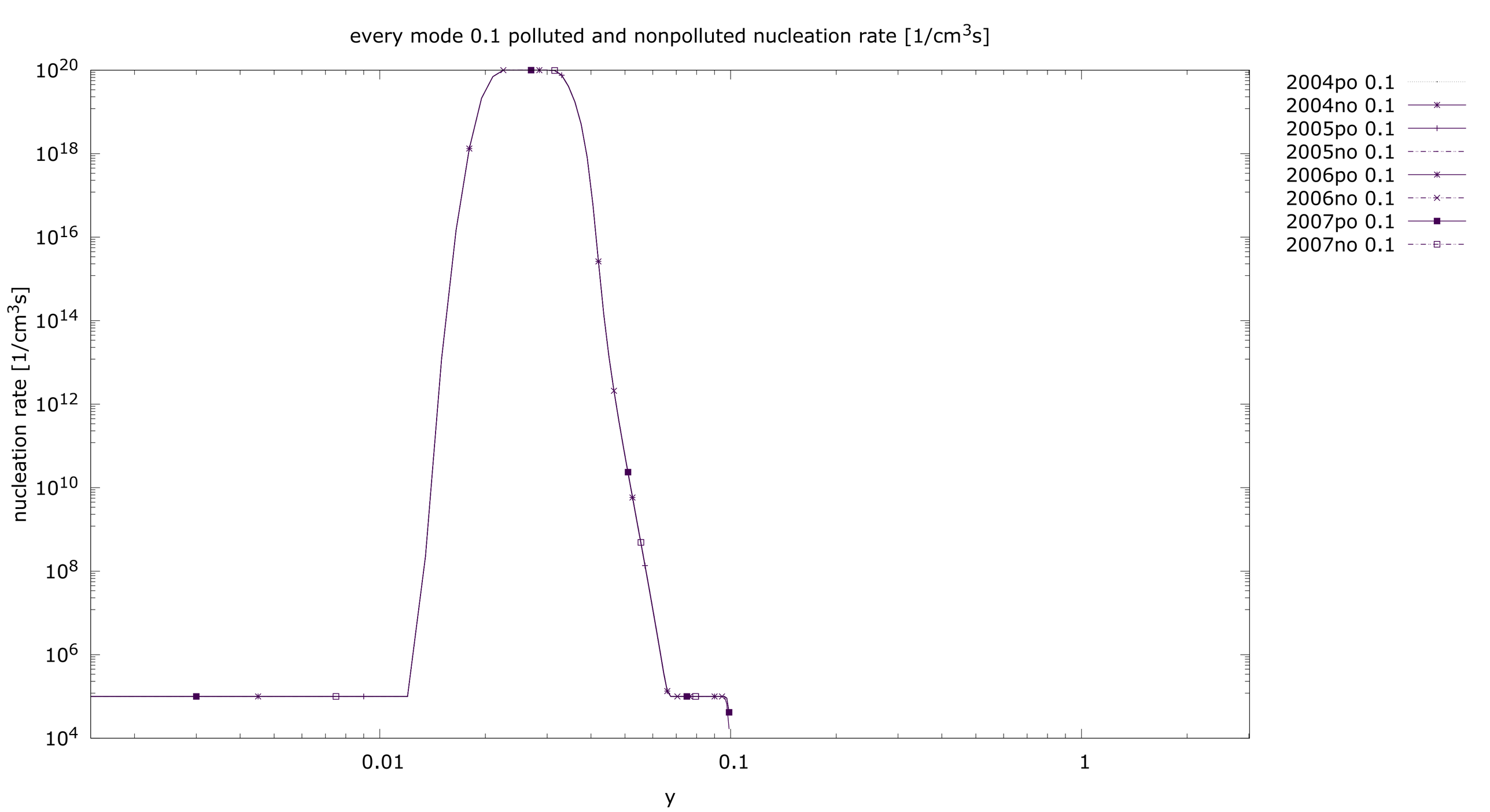

every mode every distance polluted nucleation rate [1/cm3s]
nucleation rate [1/cm3s]
y
10^20
10^18
10^16
10^14
10^12
10^10
10^8
10^6
10^4
0.01
0.1
1
2004po 0.1
2004po 0.5
2004po 1.0
2004po 1.5
2004po 2.0
2004po 3.0
2004po 5.0
2004po 7.0
2005po 0.1
2005po 0.5
2005po 1.0
2005po 1.5
2005po 2.0
2005po 3.0
2005po 5.0
2005po 7.0
2006po 0.1
2006po 0.5
2006po 1.0
2006po 1.5
2006po 2.0
2006po 3.0
2006po 5.0
2006po 7.0
2007po 0.1
2007po 0.5
2007po 1.0
2007po 1.5
2007po 2.0
2007po 3.0
2007po 5.0
2007po 7.0

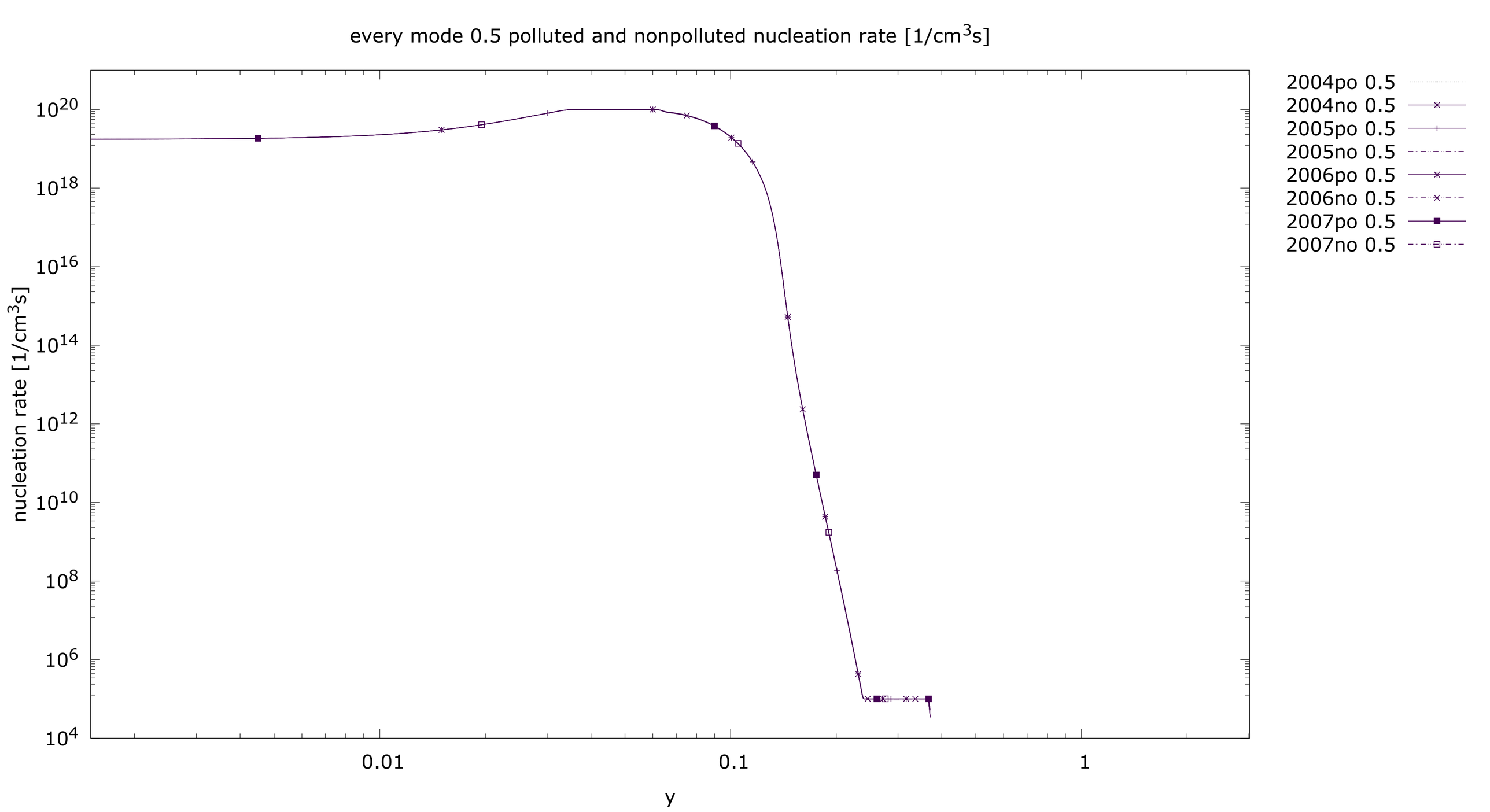

every mode every distance nonpolluted nucleation rate [1/cm3s]
nucleation rate [1/cm3s]
y
10^20
10^18
10^16
10^14
10^12
10^10
10^8
10^6
10^4
0.01
0.1
1
2004no 0.1
2004no 0.5
2004no 1.0
2004no 1.5
2004no 2.0
2004no 3.0
2004no 5.0
2004no 7.0
2005no 0.1
2005no 0.5
2005no 1.0
2005no 1.5
2005no 2.0
2005no 3.0
2005no 5.0
2005no 7.0
2006no 0.1
2006no 0.5
2006no 1.0
2006no 1.5
2006no 2.0
2006no 3.0
2006no 5.0
2006no 7.0
2007no 0.1
2007no 0.5
2007no 1.0
2007no 1.5
2007no 2.0
2007no 3.0
2007no 5.0
2007no 7.0

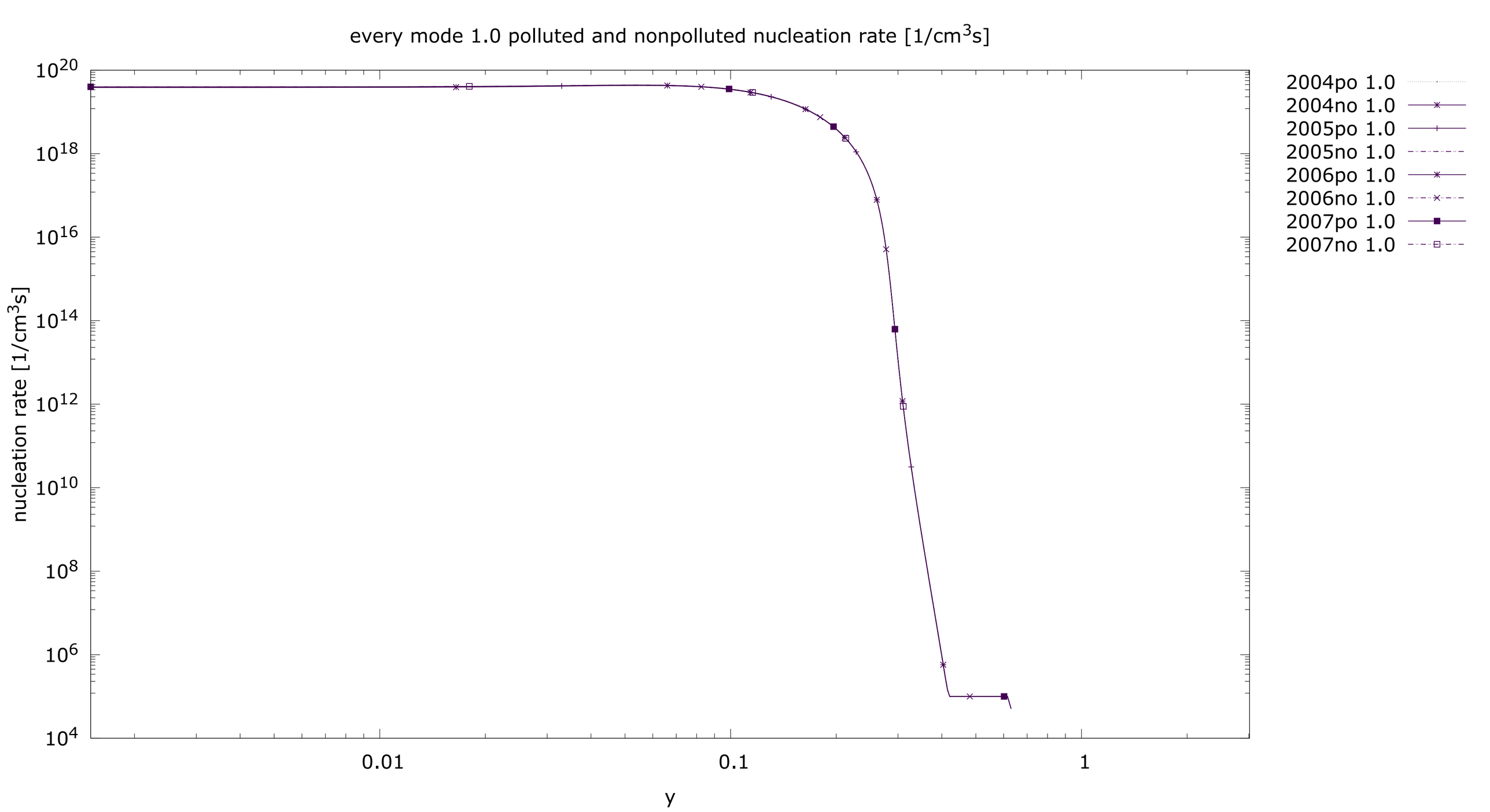

2004 every distance polluted and nonpolluted nucleation rate [1/cm3s]
nucleation rate [1/cm3s]
10^20
10^18
10^16
10^14
10^12
10^10
10^8
10^6
10^4
0.01
0.1
1
y
2004po 0.1
2004po 0.5
2004po 1.0
2004po 1.5
2004po 2.0
2004po 3.0
2004po 5.0
2004po 7.0
2004no 0.1
2004no 0.5
2004no 1.0
2004no 1.5
2004no 2.0
2004no 3.0
2004no 5.0
2004no 7.0
2007po 0.1
2007po 0.5
2007po 1.0
2007po 1.5
2007po 2.0
2007po 3.0
2007po 5.0
2007po 7.0
2007no 0.1
2007no 0.5
2007no 1.0
2007no 1.5
2007no 2.0
2007no 3.0
2007no 5.0
2007no 7.0

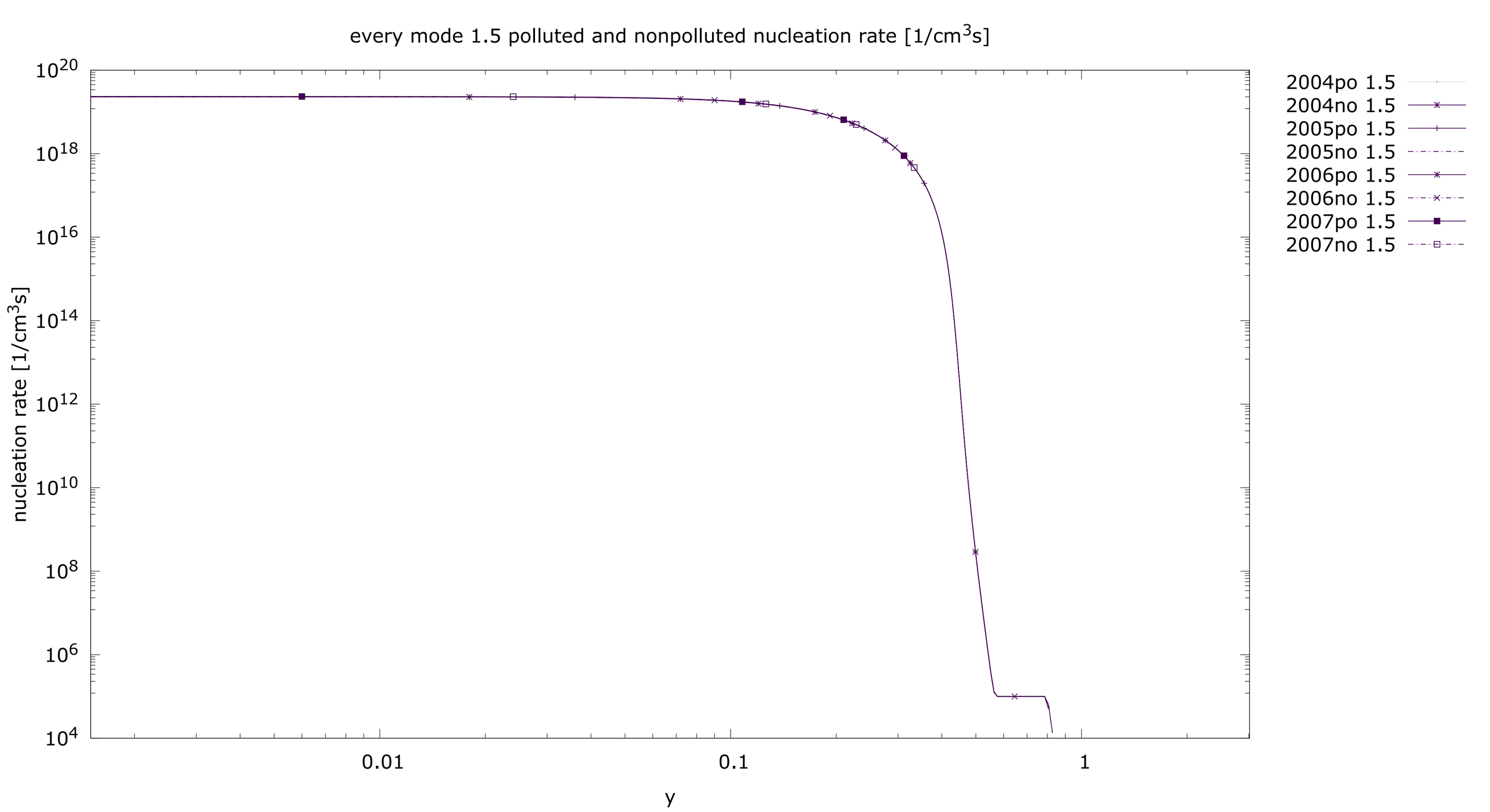

2005 every distance polluted and nonpolluted nucleation rate [1/cm3s]
nucleation rate [1/cm3s]
10^20
10^18
10^16
10^14
10^12
10^10
10^8
10^6
10^4
0.01
0.1
1
y
2005po 0.1
2005po 0.5
2005po 1.0
2005po 1.5
2005po 2.0
2005po 3.0
2005po 5.0
2005po 7.0
2005no 0.1
2005no 0.5
2005no 1.0
2005no 1.5
2005no 2.0
2005no 3.0
2005no 5.0
2005no 7.0
2007po 0.1
2007po 0.5
2007po 1.0
2007po 1.5
2007po 2.0
2007po 3.0
2007po 5.0
2007po 7.0
2007no 0.1
2007no 0.5
2007no 1.0
2007no 1.5
2007no 2.0
2007no 3.0
2007no 5.0
2007no 7.0

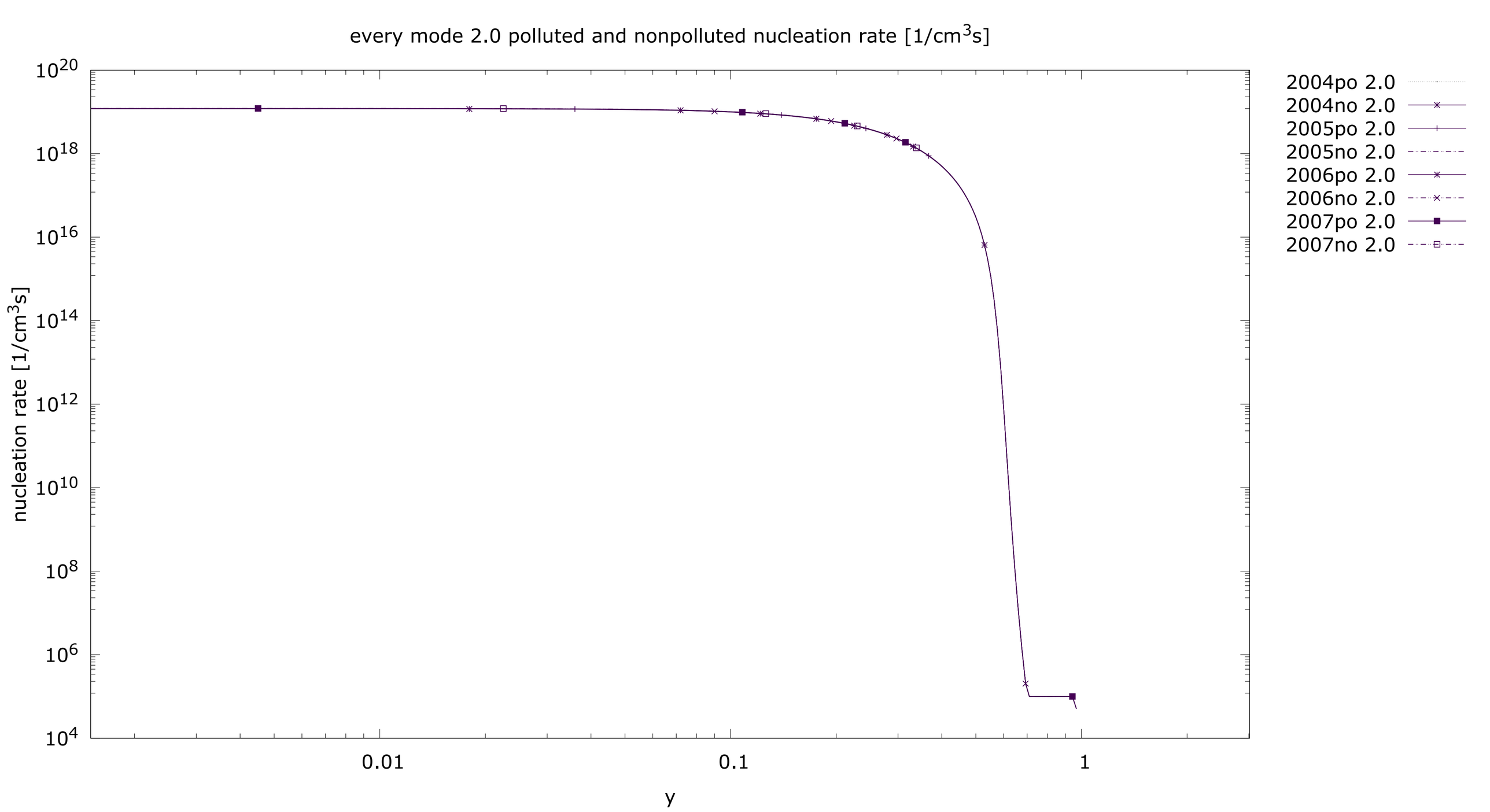

2006 every distance polluted and nonpolluted nucleation rate [1/cm3s]
nucleation rate [1/cm3s]
10^20
10^18
10^16
10^14
10^12
10^10
10^8
10^6
10^4
0.01
0.1
1
y
2006po 0.1
2006po 0.5
2006po 1.0
2006po 1.5
2006po 2.0
2006po 3.0
2006po 5.0
2006po 7.0
2006no 0.1
2006no 0.5
2006no 1.0
2006no 1.5
2006no 2.0
2006no 3.0
2006no 5.0
2006no 7.0
2007po 0.1
2007po 0.5
2007po 1.0
2007po 1.5
2007po 2.0
2007po 3.0
2007po 5.0
2007po 7.0
2007no 0.1
2007no 0.5
2007no 1.0
2007no 1.5
2007no 2.0
2007no 3.0
2007no 5.0
2007no 7.0

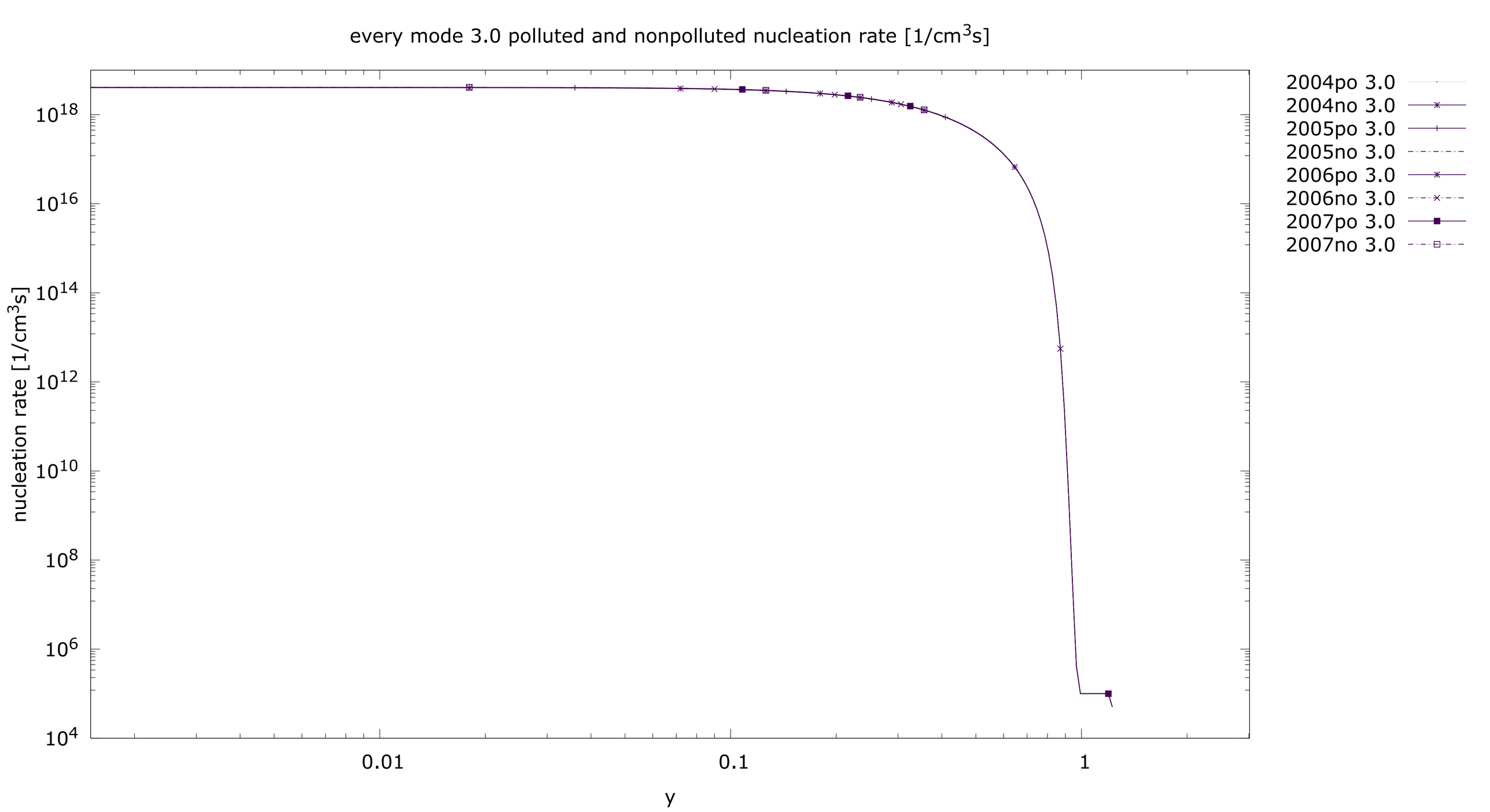

every mode 0.1 polluted and nonpolluted nucleation rate [1/cm3s]
nucleation rate [1/cm3s]
y
2004po 0.1
2004no 0.1
2005po 0.1
2005no 0.1
2006po 0.1
2006no 0.1
2007po 0.1
2007no 0.1

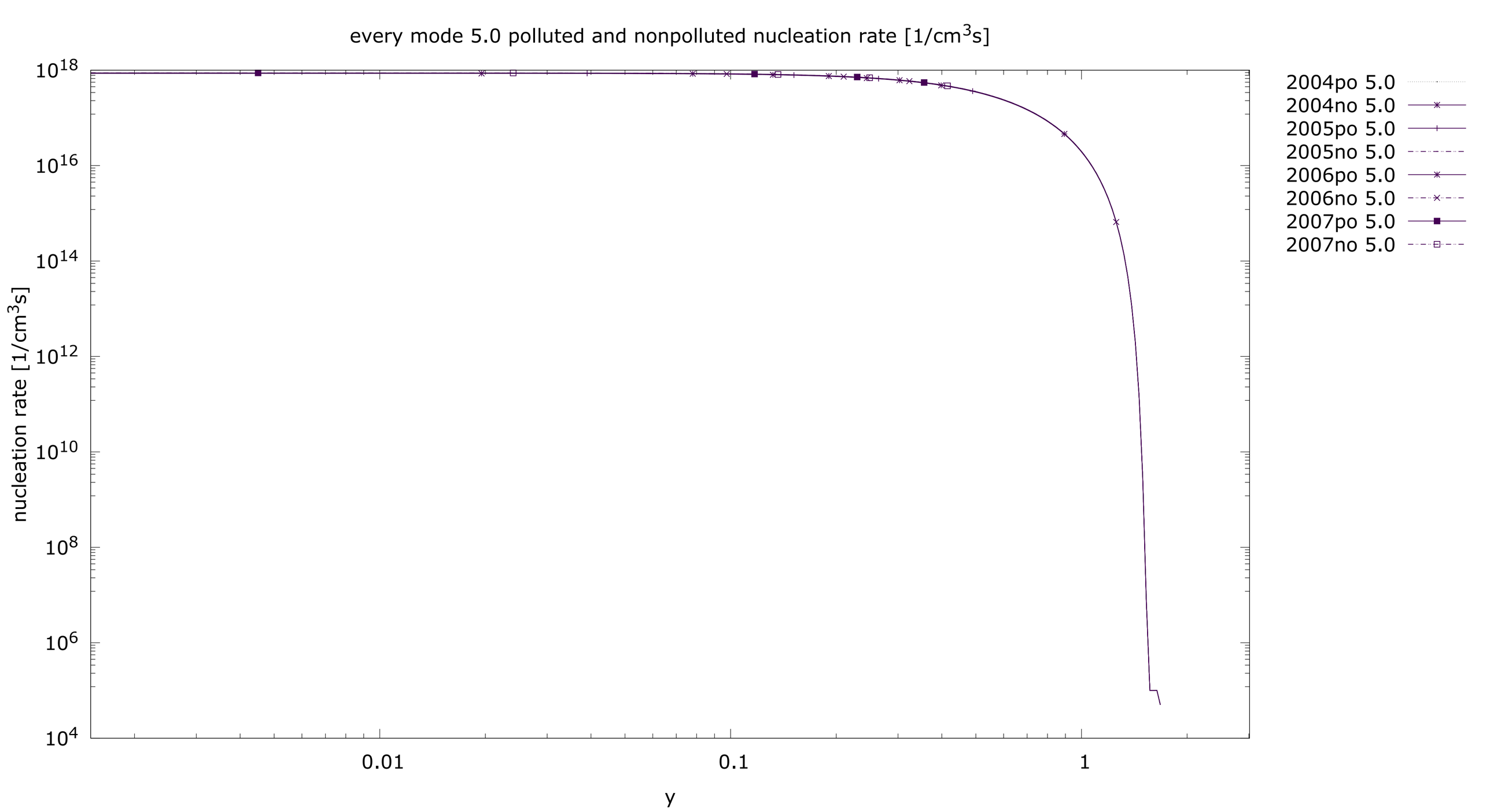

every mode 0.5 polluted and nonpolluted nucleation rate [1/cm3s]
nucleation rate [1/cm3s]
y
2004po 0.5
2004no 0.5
2005po 0.5
2005no 0.5
2006po 0.5
2006no 0.5
2007po 0.5
2007no 0.5

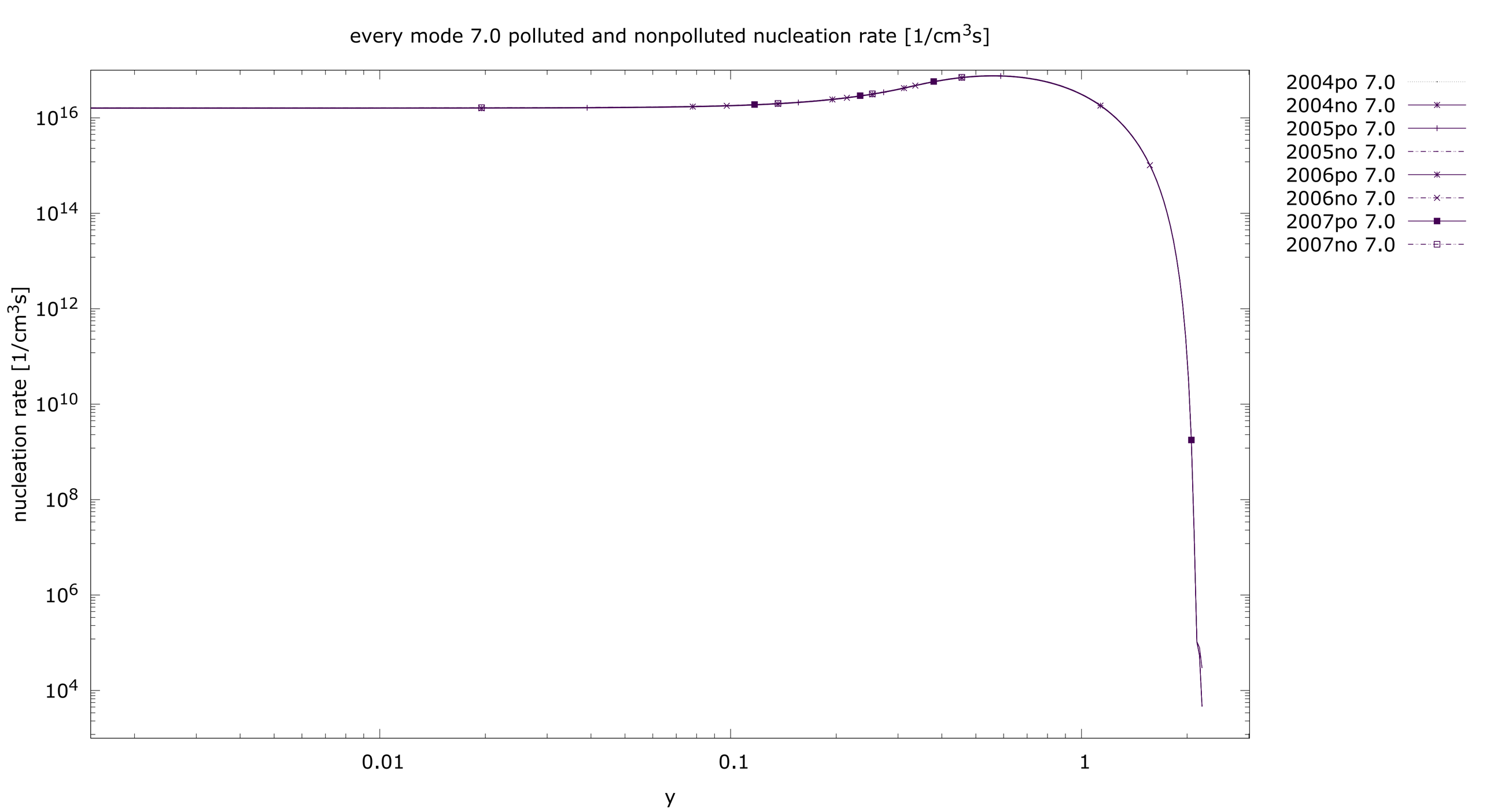

every mode 1.0 polluted and nonpolluted nucleation rate [1/cm3s]
nucleation rate [1/cm3s]
10^20
10^18
10^16
10^14
10^12
10^10
10^8
10^6
10^4
0.01
0.1
1
y
2004po 1.0
2004no 1.0
2005po 1.0
2005no 1.0
2006po 1.0
2006no 1.0
2007po 1.0
2007no 1.0

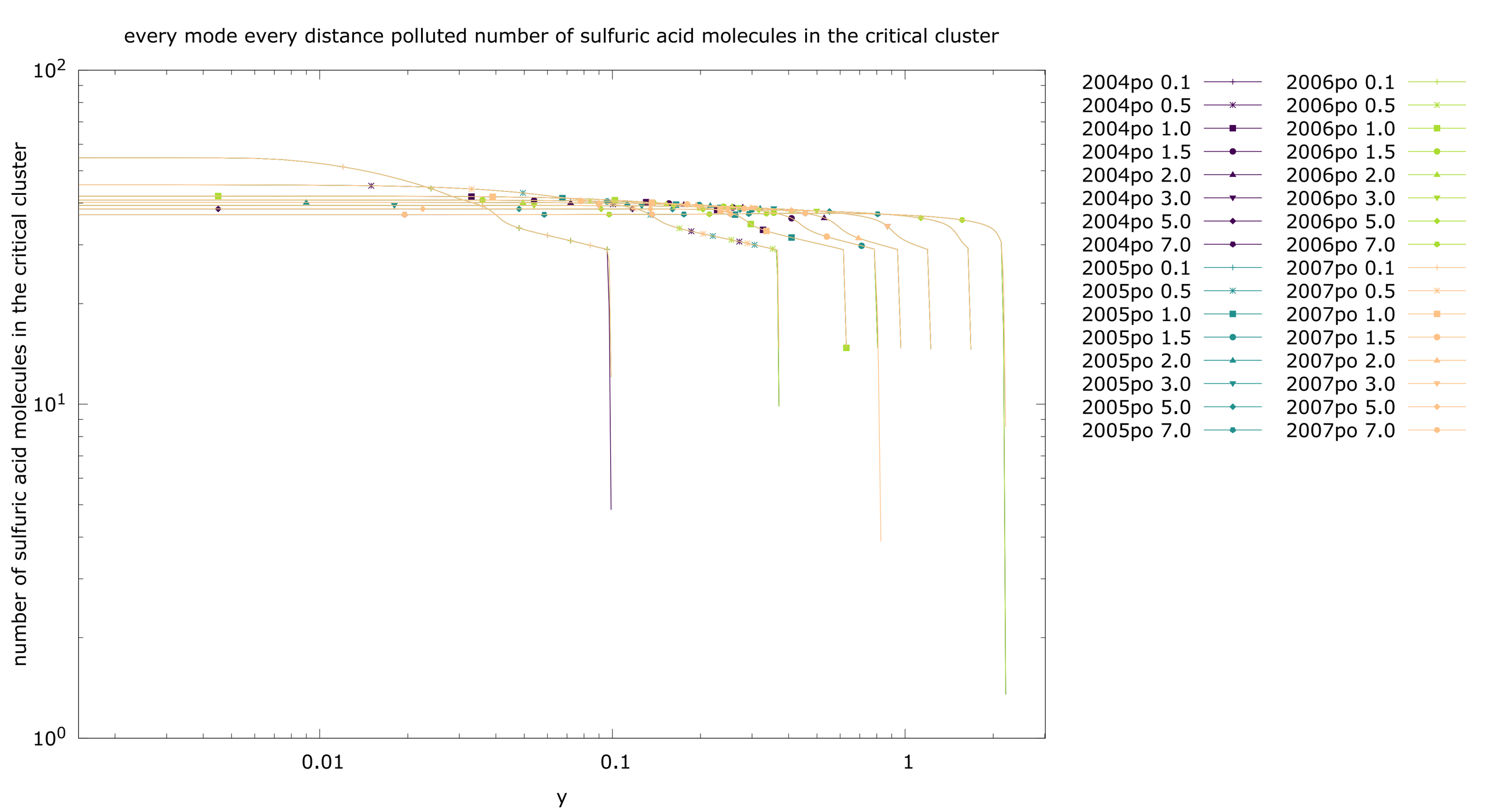

every mode 1.5 polluted and nonpolluted nucleation rate [1/cm3s]
nucleation rate [1/cm3s]
10^20
10^18
10^16
10^14
10^12
10^10
10^8
10^6
10^4
0.01
0.1
1
y
2004po 1.5
2004no 1.5
2005po 1.5
2005no 1.5
2006po 1.5
2006no 1.5
2007po 1.5
2007no 1.5

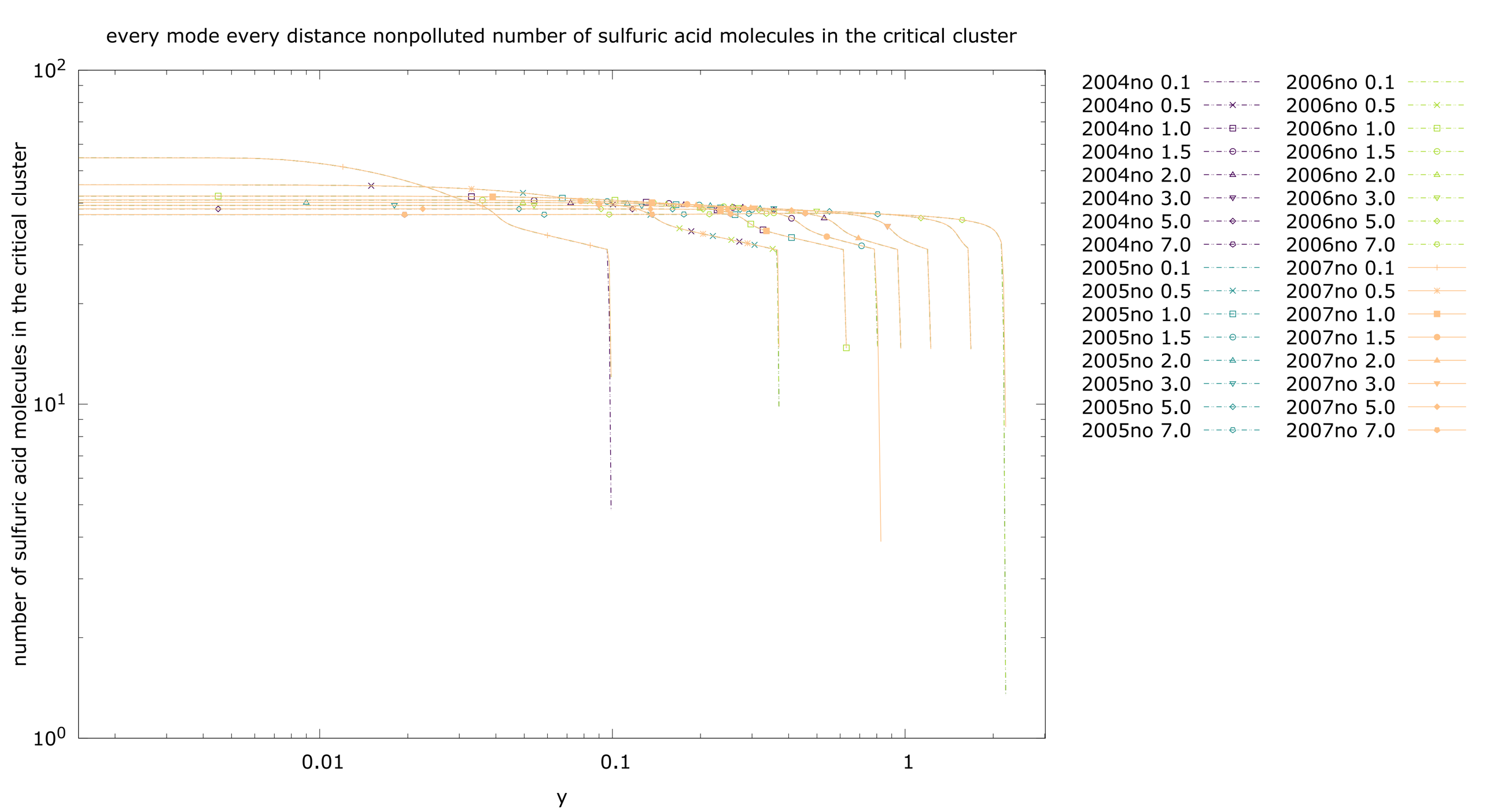

every mode 2.0 polluted and nonpolluted nucleation rate [1/cm3s]
nucleation rate [1/cm3s]
10^20
10^18
10^16
10^14
10^12
10^10
10^8
10^6
10^4
0.01
0.1
1
y
2004po 2.0
2004no 2.0
2005po 2.0
2005no 2.0
2006po 2.0
2006no 2.0
2007po 2.0
2007no 2.0

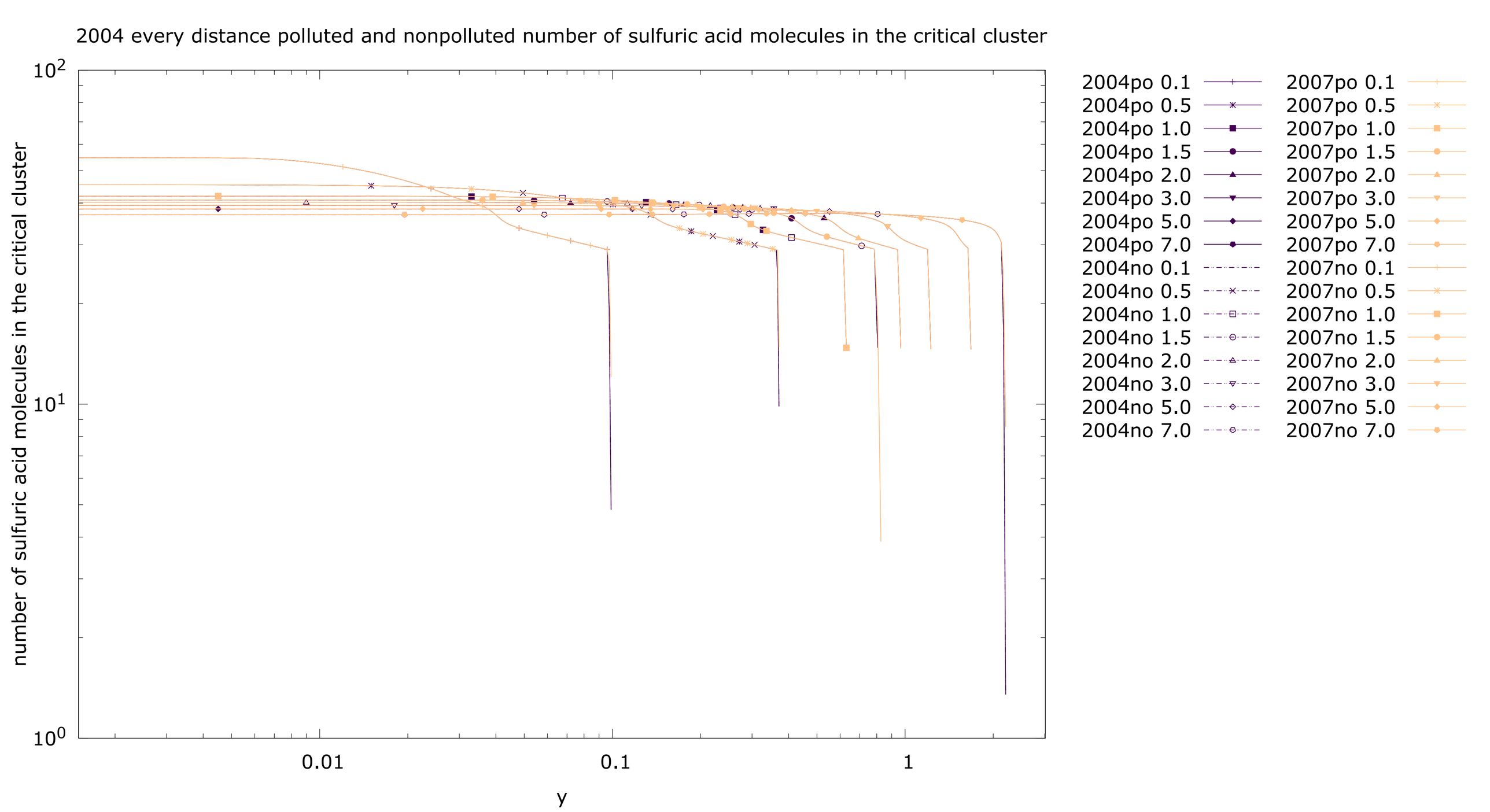

every mode 3.0 polluted and nonpolluted nucleation rate [1/cm3s]
nucleation rate [1/cm3s]
10^18
10^16
10^14
10^12
10^10
10^8
10^6
10^4
0.01
0.1
1
y
2004po 3.0
2004no 3.0
2005po 3.0
2005no 3.0
2006po 3.0
2006no 3.0
2007po 3.0
2007no 3.0

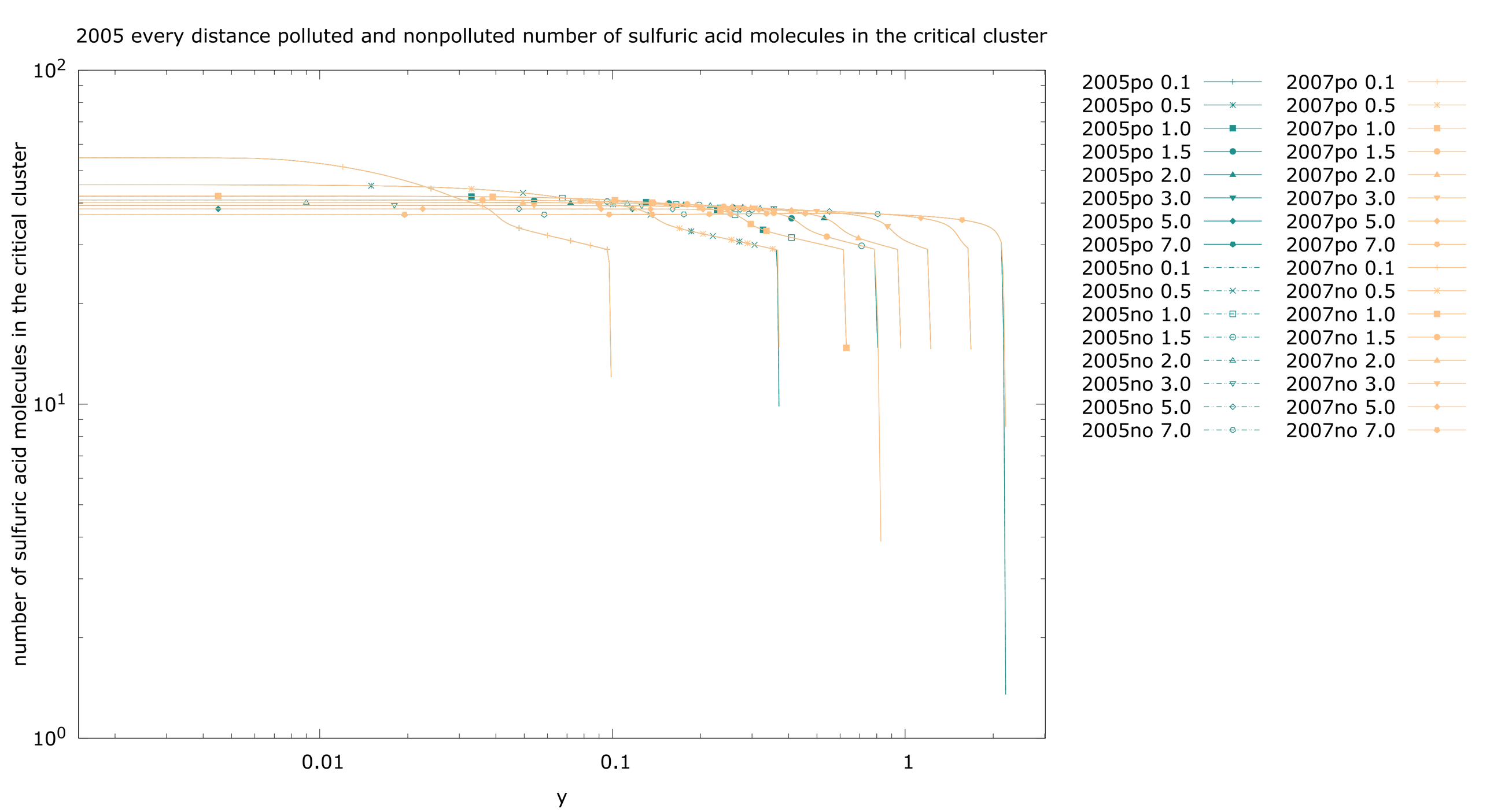

every mode 5.0 polluted and nonpolluted nucleation rate [1/cm3s]
nucleation rate [1/cm3s]
y
10^18
10^16
10^14
10^12
10^10
10^8
10^6
10^4
0.01
0.1
1
2004po 5.0
2004no 5.0
2005po 5.0
2005no 5.0
2006po 5.0
2006no 5.0
2007po 5.0
2007no 5.0

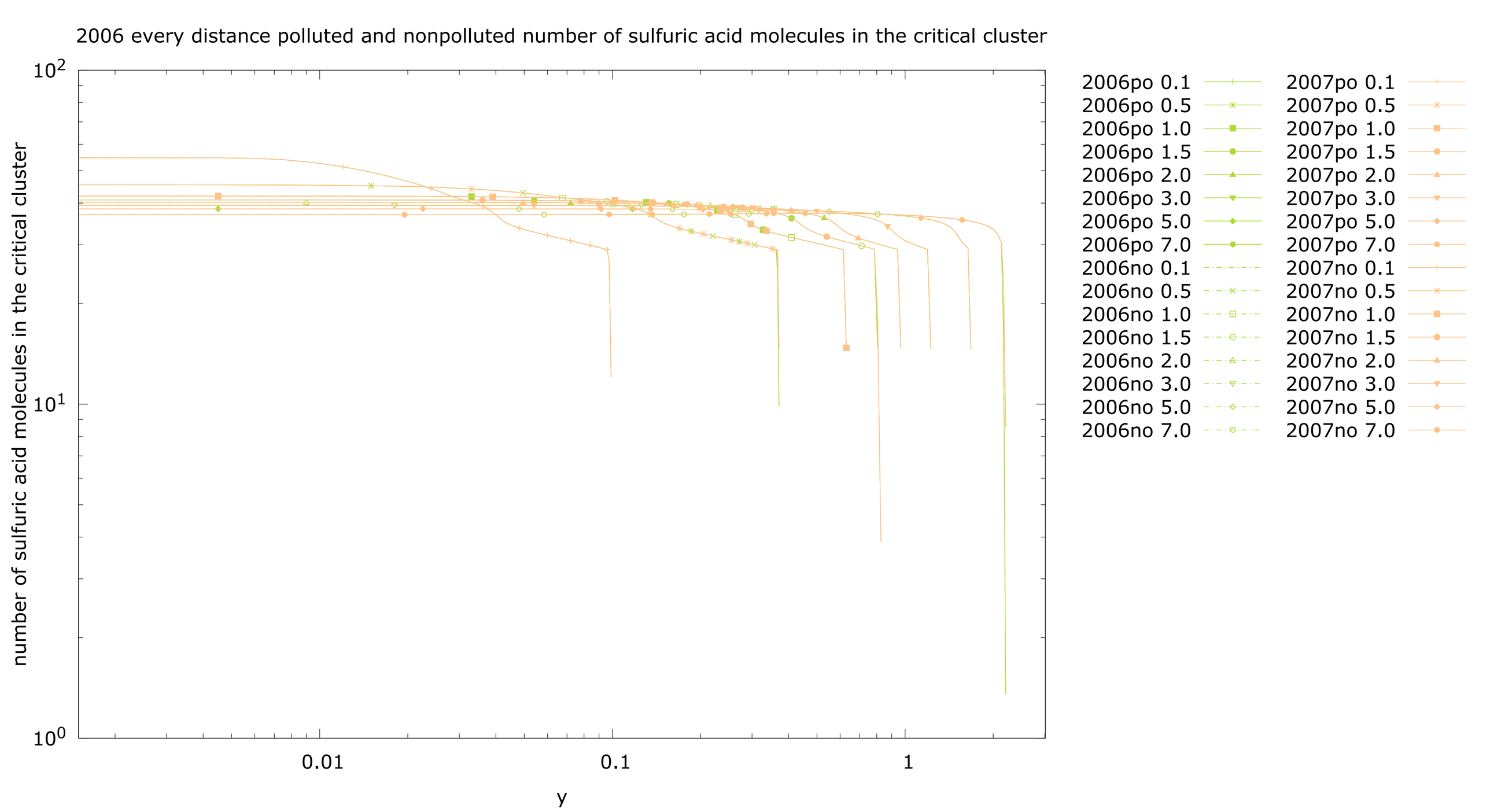

every mode 7.0 polluted and nonpolluted nucleation rate [1/cm3s]
nucleation rate [1/cm3s]
10^16
10^14
10^12
10^10
10^8
10^6
10^4
0.01
0.1
1
y
2004po 7.0
2004no 7.0
2005po 7.0
2005no 7.0
2006po 7.0
2006no 7.0
2007po 7.0
2007no 7.0

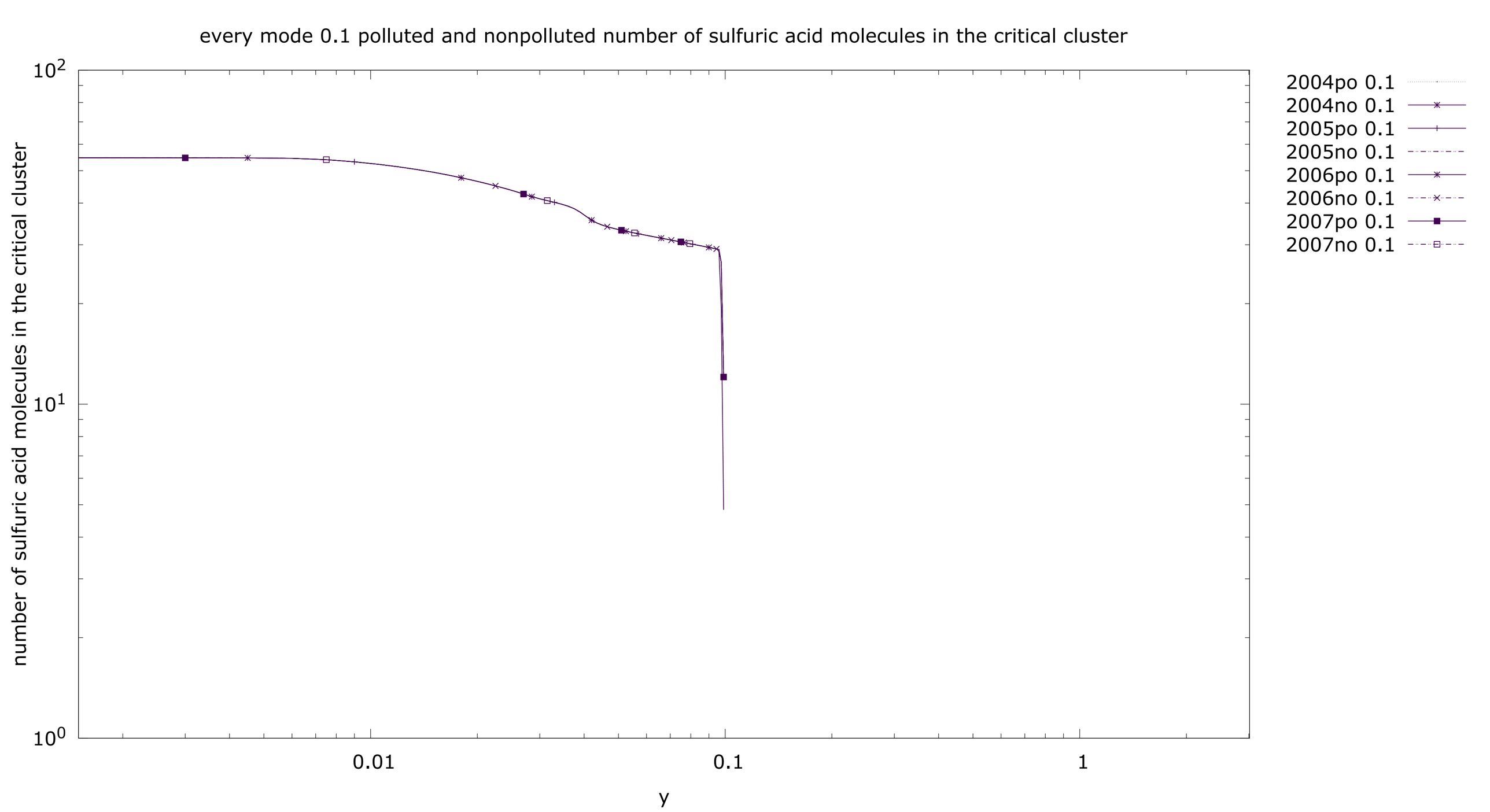

every mode every distance polluted number of sulfuric acid molecules in the critical cluster
number of sulfuric acid molecules in the critical cluster
10^2
10^1
10^0
0.01
0.1
1
y
2004po 0.1
2004po 0.5
2004po 1.0
2004po 1.5
2004po 2.0
2004po 3.0
2004po 5.0
2004po 7.0
2005po 0.1
2005po 0.5
2005po 1.0
2005po 1.5
2005po 2.0
2005po 3.0
2005po 5.0
2005po 7.0
2006po 0.1
2006po 0.5
2006po 1.0
2006po 1.5
2006po 2.0
2006po 3.0
2006po 5.0
2006po 7.0
2007po 0.1
2007po 0.5
2007po 1.0
2007po 1.5
2007po 2.0
2007po 3.0
2007po 5.0
2007po 7.0


every mode every distance nonpolluted number of sulfuric acid molecules in the critical cluster
number of sulfuric acid molecules in the critical cluster
10^2
10^1
10^0
0.01
0.1
1
y
2004no 0.1
2004no 0.5
2004no 1.0
2004no 1.5
2004no 2.0
2004no 3.0
2004no 5.0
2004no 7.0
2005no 0.1
2005no 0.5
2005no 1.0
2005no 1.5
2005no 2.0
2005no 3.0
2005no 5.0
2005no 7.0
2006no 0.1
2006no 0.5
2006no 1.0
2006no 1.5
2006no 2.0
2006no 3.0
2006no 5.0
2006no 7.0
2007no 0.1
2007no 0.5
2007no 1.0
2007no 1.5
2007no 2.0
2007no 3.0
2007no 5.0
2007no 7.0


2004 every distance polluted and nonpolluted number of sulfuric acid molecules in the critical cluster
number of sulfuric acid molecules in the critical cluster
10^2
10^1
10^0
0.01
0.1
1
y
2004po 0.1
2004po 0.5
2004po 1.0
2004po 1.5
2004po 2.0
2004po 3.0
2004po 5.0
2004po 7.0
2004no 0.1
2004no 0.5
2004no 1.0
2004no 1.5
2004no 2.0
2004no 3.0
2004no 5.0
2004no 7.0
2007po 0.1
2007po 0.5
2007po 1.0
2007po 1.5
2007po 2.0
2007po 3.0
2007po 5.0
2007po 7.0
2007no 0.1
2007no 0.5
2007no 1.0
2007no 1.5
2007no 2.0
2007no 3.0
2007no 5.0
2007no 7.0


2005 every distance polluted and nonpolluted number of sulfuric acid molecules in the critical cluster
number of sulfuric acid molecules in the critical cluster
10^2
10^1
10^0
0.01
0.1
1
y
2005po 0.1
2005po 0.5
2005po 1.0
2005po 1.5
2005po 2.0
2005po 3.0
2005po 5.0
2005po 7.0
2005no 0.1
2005no 0.5
2005no 1.0
2005no 1.5
2005no 2.0
2005no 3.0
2005no 5.0
2005no 7.0
2007po 0.1
2007po 0.5
2007po 1.0
2007po 1.5
2007po 2.0
2007po 3.0
2007po 5.0
2007po 7.0
2007no 0.1
2007no 0.5
2007no 1.0
2007no 1.5
2007no 2.0
2007no 3.0
2007no 5.0
2007no 7.0


2006 every distance polluted and nonpolluted number of sulfuric acid molecules in the critical cluster
number of sulfuric acid molecules in the critical cluster
10^2
10^1
10^0
0.01
0.1
1
y
2006po 0.1
2006po 0.5
2006po 1.0
2006po 1.5
2006po 2.0
2006po 3.0
2006po 5.0
2006po 7.0
2006no 0.1
2006no 0.5
2006no 1.0
2006no 1.5
2006no 2.0
2006no 3.0
2006no 5.0
2006no 7.0
2007po 0.1
2007po 0.5
2007po 1.0
2007po 1.5
2007po 2.0
2007po 3.0
2007po 5.0
2007po 7.0
2007no 0.1
2007no 0.5
2007no 1.0
2007no 1.5
2007no 2.0
2007no 3.0
2007no 5.0
2007no 7.0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number of sulfuric acid molecules in the critical cluster
y
10^2
10^1
10^0
0.01
0.1
1
2004po 0.1
2004no 0.1
2005po 0.1
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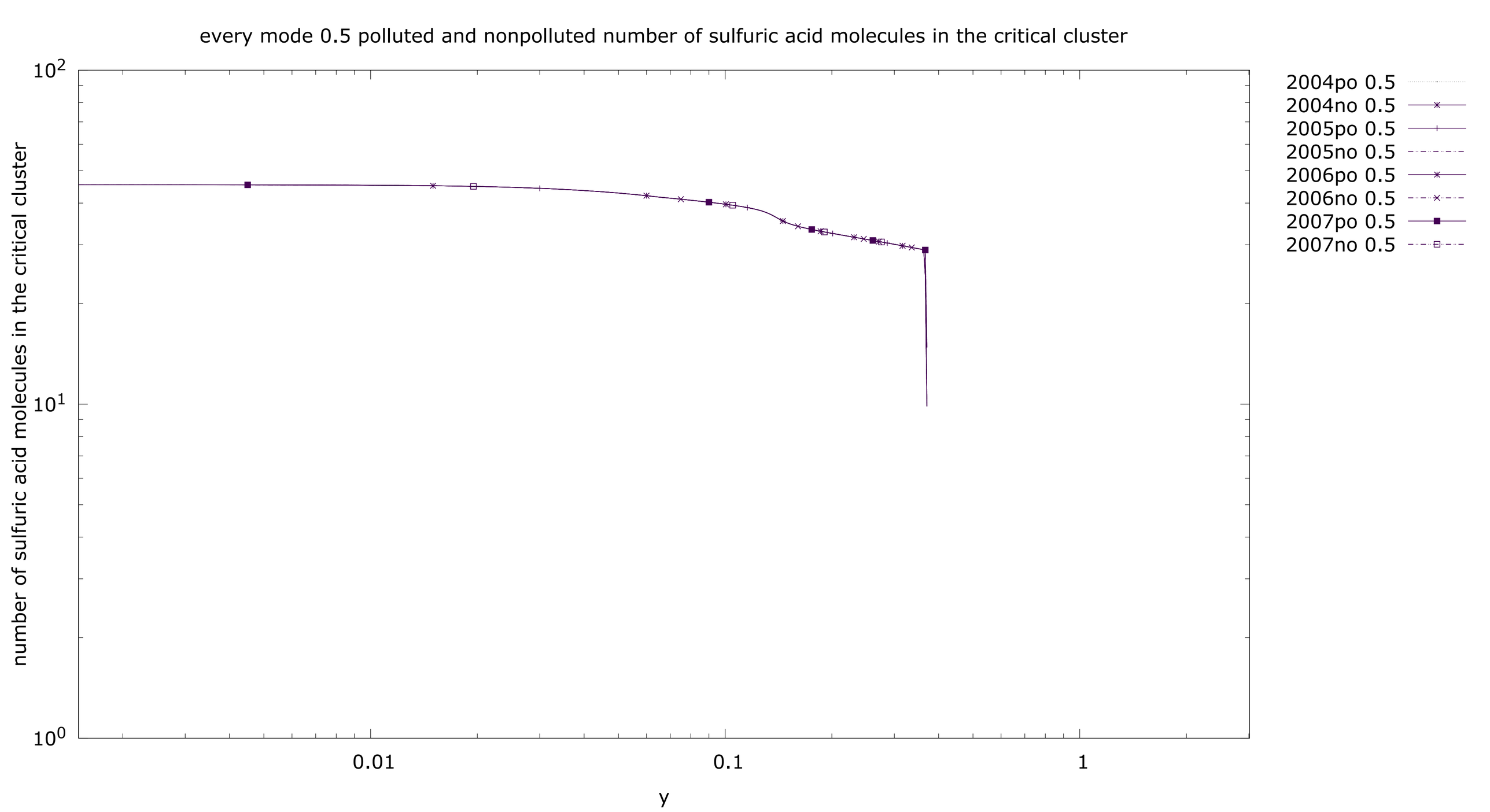
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number of sulfuric acid molecules in the critical cluster
y
10^2
10^1
10^0
0.01
0.1
1
2004po 0.5
2004no 0.5
2005po 0.5
2005no 0.5
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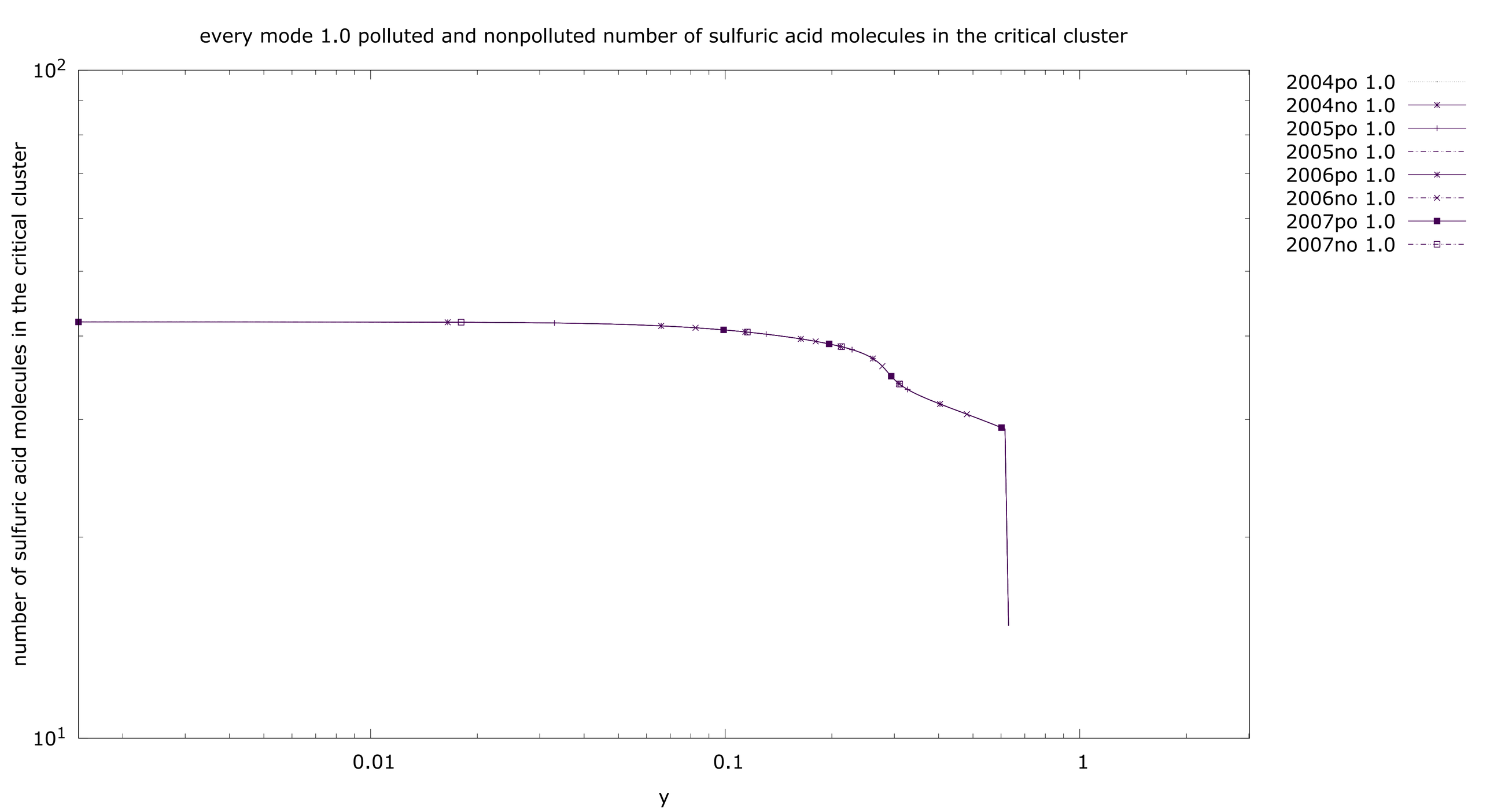
2007no 0.5


every mode 1.0 polluted and nonpolluted number of sulfuric acid molecules in the critical cluster
number of sulfuric acid molecules in the critical cluster
10^2
10^1
0.01
0.1
1
y
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2005po 1.0
2005no 1.0
2006po 1.0
2006no 1.0
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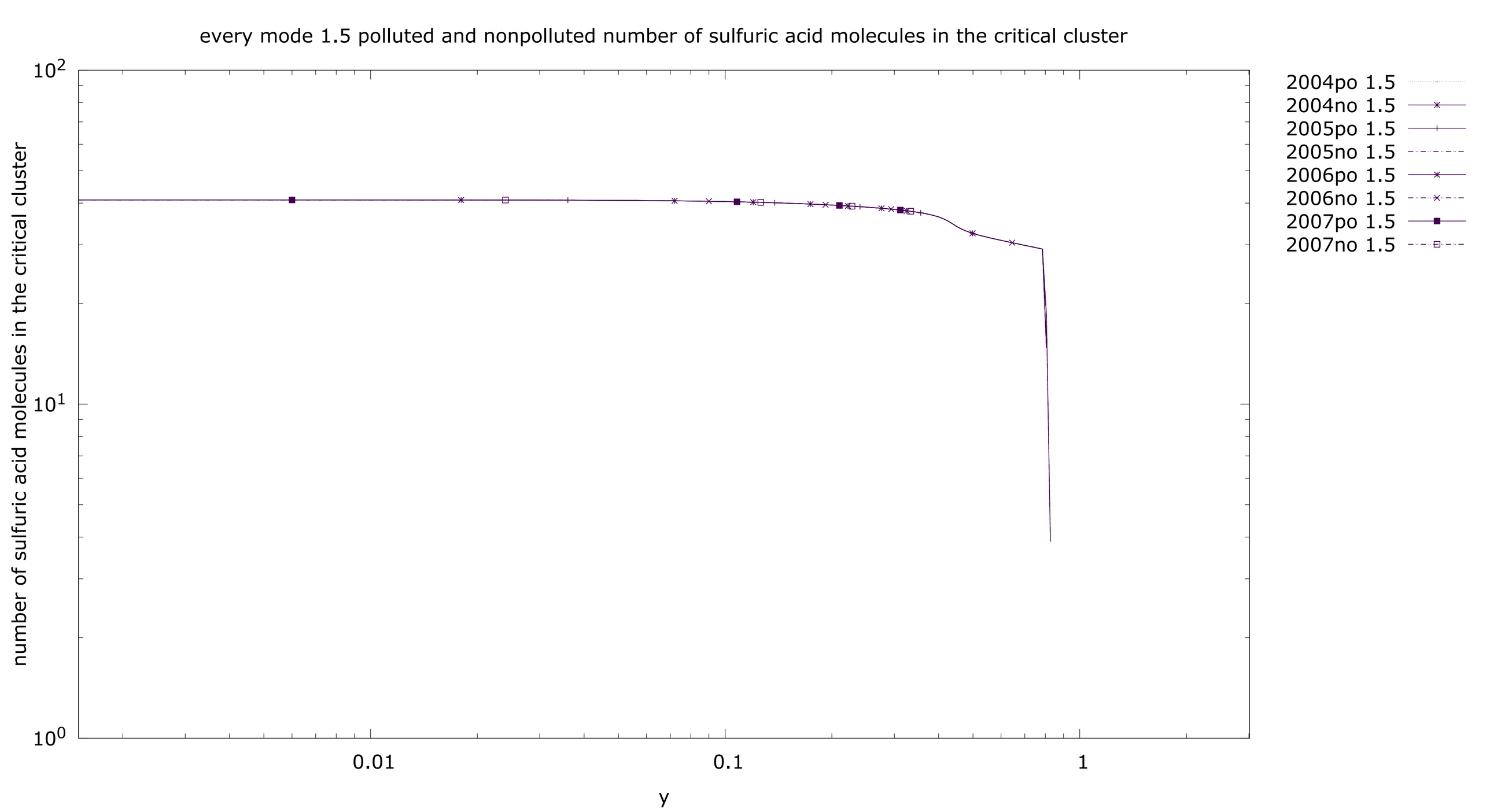
every mode 1.5 polluted and nonpolluted number of sulfuric acid molecules in the critical cluster
number of sulfuric acid molecules in the critical cluster
10^2
10^1
10^0
0.01
0.1
1
y
2004po 1.5
2004no 1.5
2005po 1.5
2005no 1.5
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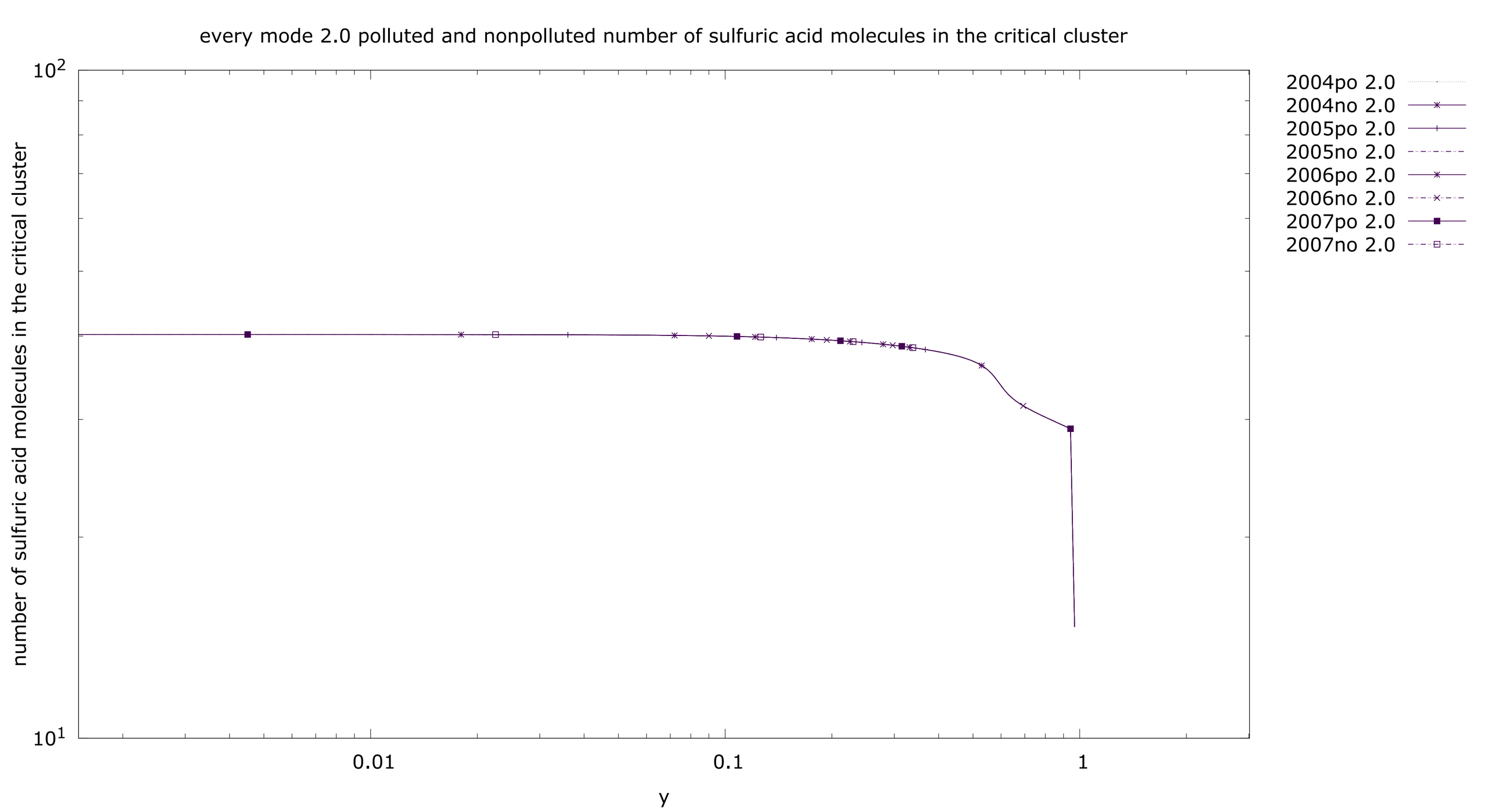
2007no 1.5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number of sulfuric acid molecules in the critical cluster
10^2
10^1
0.01
0.1
1
y
2004po 2.0
2004no 2.0
2005po 2.0
2005no 2.0
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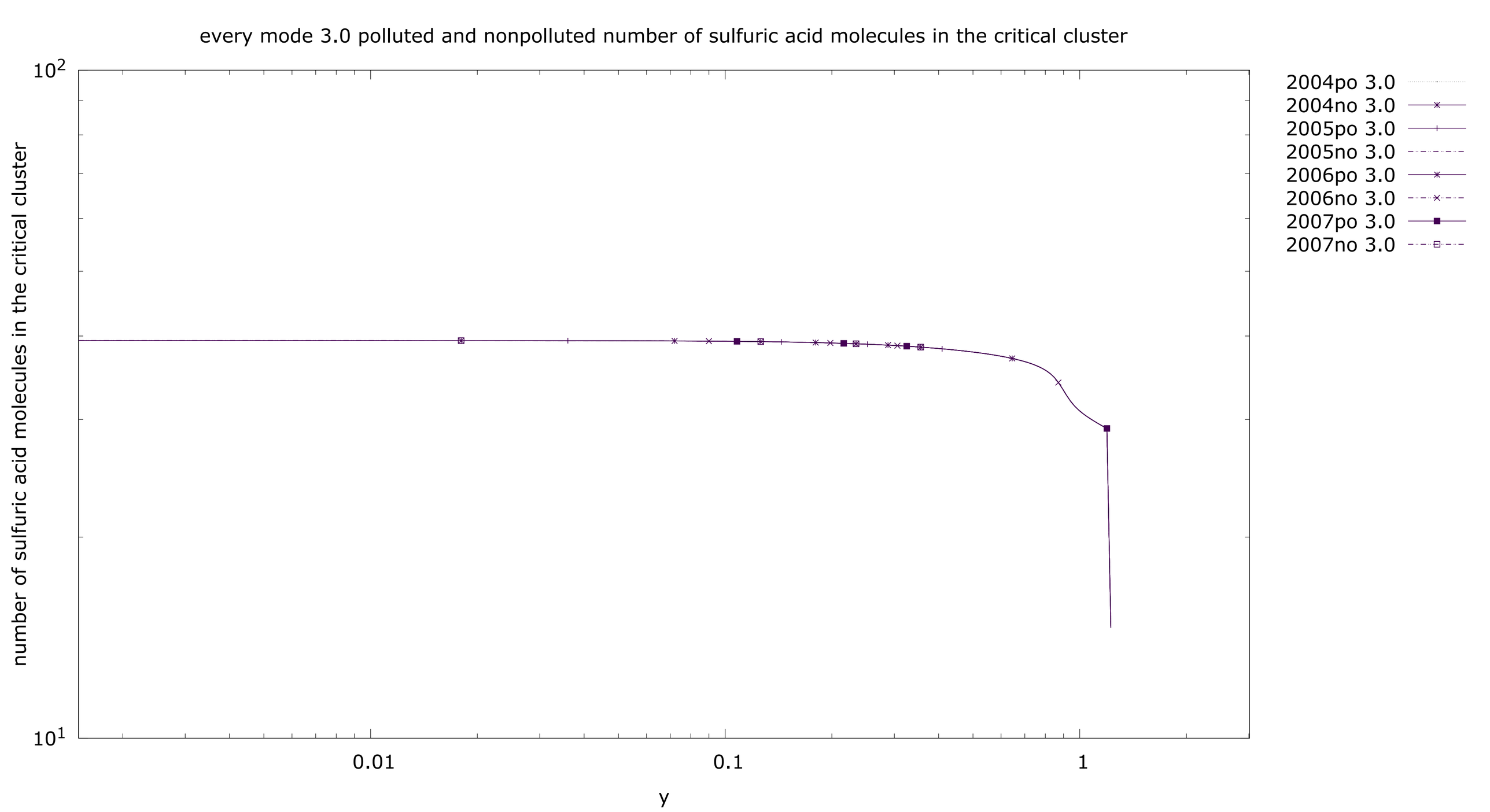
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number of sulfuric acid molecules in the critical cluster
10^2
10^1
0.01
0.1
1
y
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2004no 3.0
2005po 3.0
2005no 3.0
2006po 3.0
2006no 3.0
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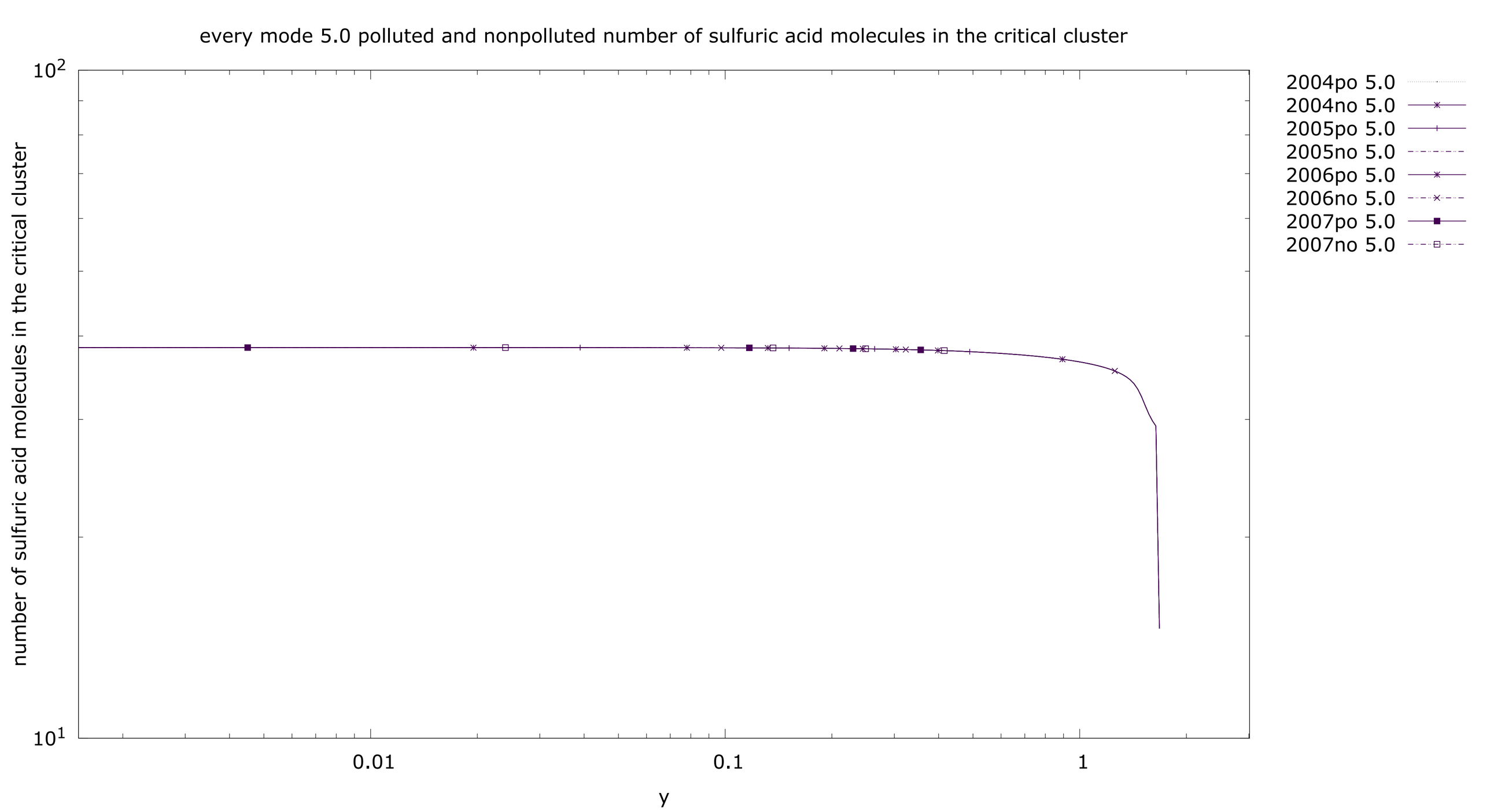
2007no 3.0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number of sulfuric acid molecules in the critical cluster
10^2
10^1
0.01
0.1
1
y
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2004no 5.0
2005po 5.0
2005no 5.0
2006po 5.0
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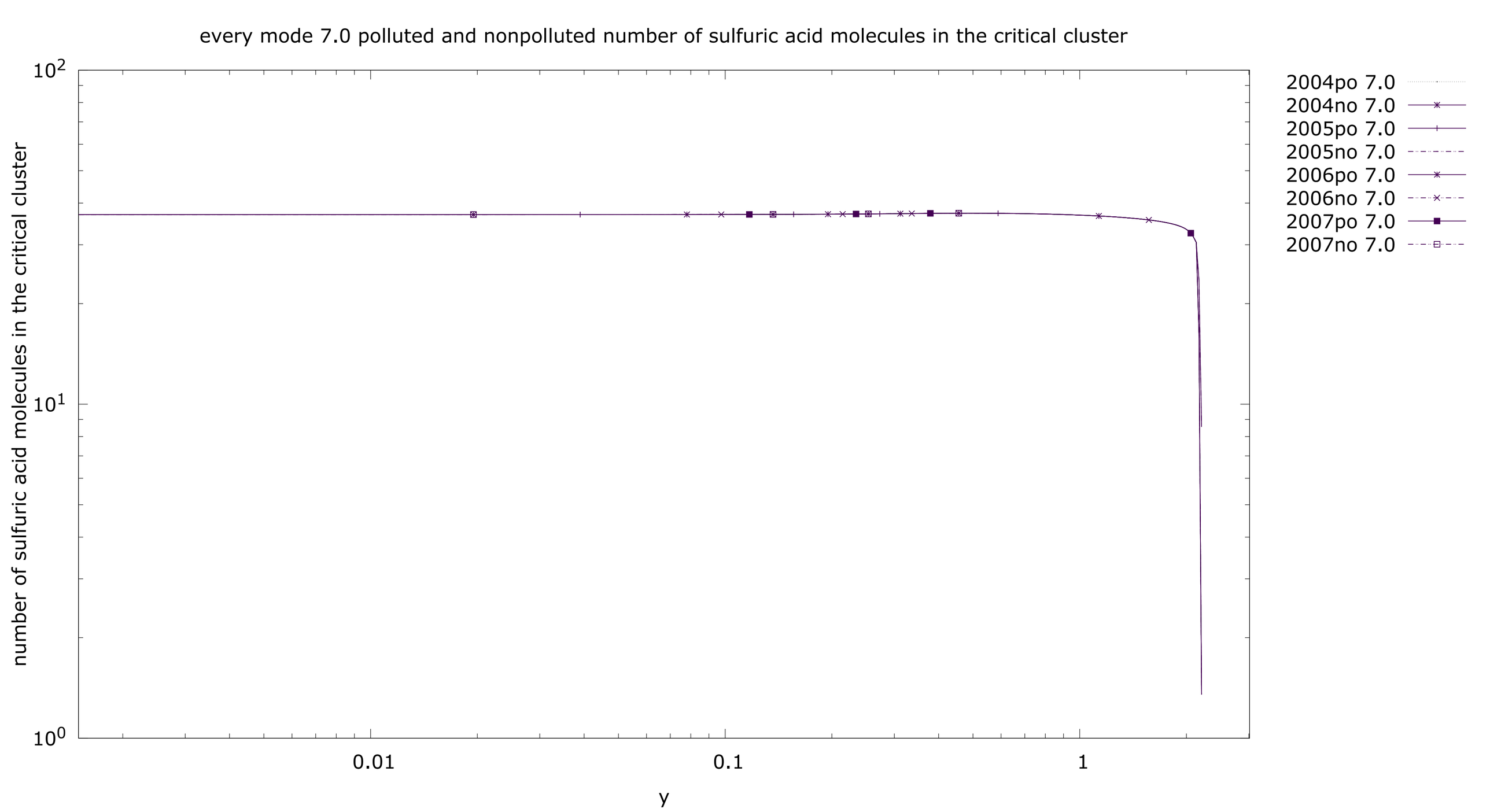
2007no 5.0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number of sulfuric acid molecules in the critical cluster
10^2
10^1
10^0
0.01
0.1
1
y
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2005po 7.0
2005no 7.0
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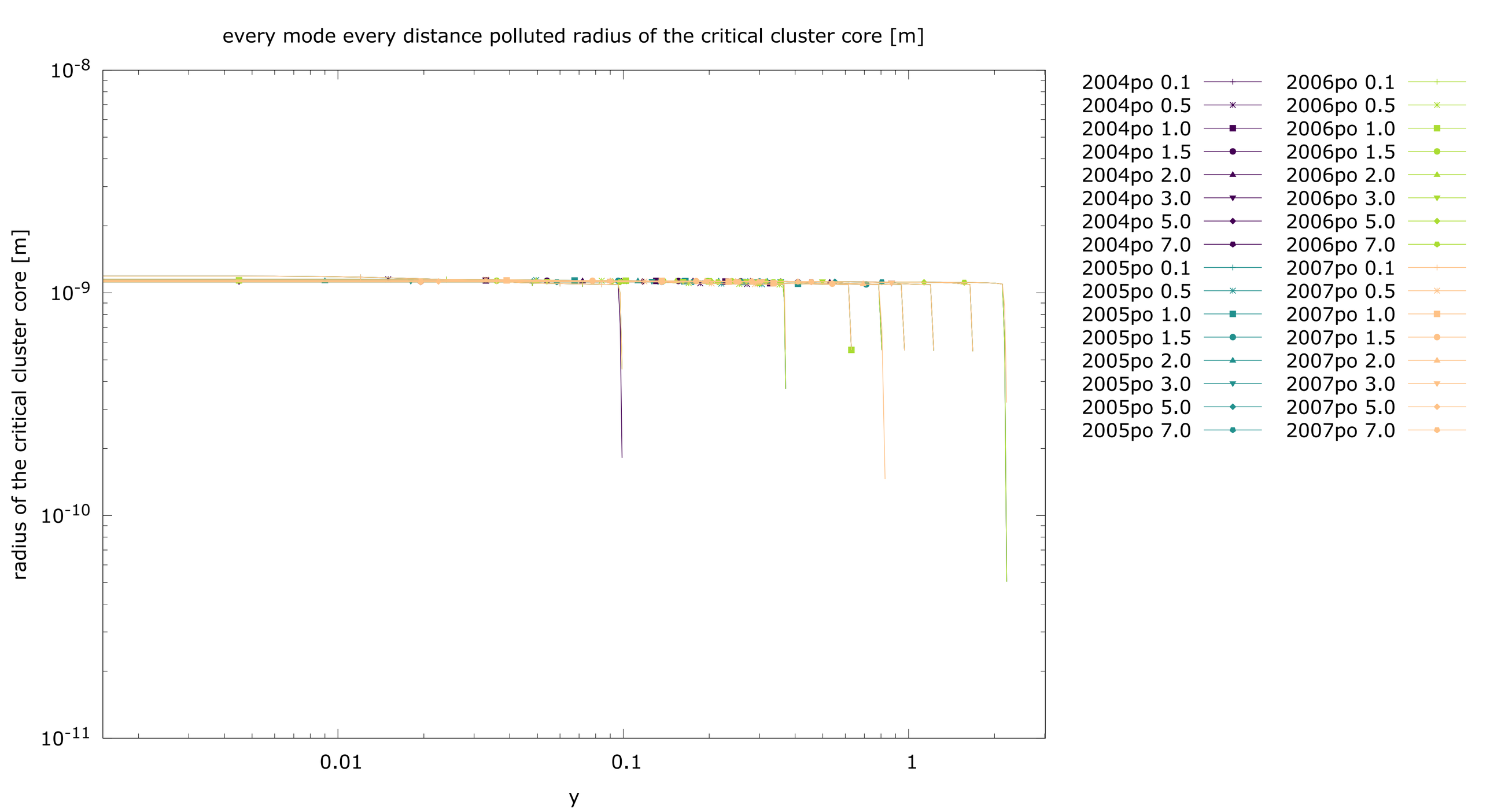
2007no 7.0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radius of the critical cluster core [m]
y
10^{-8}
10^{-9}
10^{-10}
10^{-11}
0.01
0.1
1
2004po 0.1
2004po 0.5
2004po 1.0
2004po 1.5
2004po 2.0
2004po 3.0
2004po 5.0
2004po 7.0
2005po 0.1
2005po 0.5
2005po 1.0
2005po 1.5
2005po 2.0
2005po 3.0
2005po 5.0
2005po 7.0
2006po 0.1
2006po 0.5
2006po 1.0
2006po 1.5
2006po 2.0
2006po 3.0
2006po 5.0
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2007po 0.5
2007po 1.0
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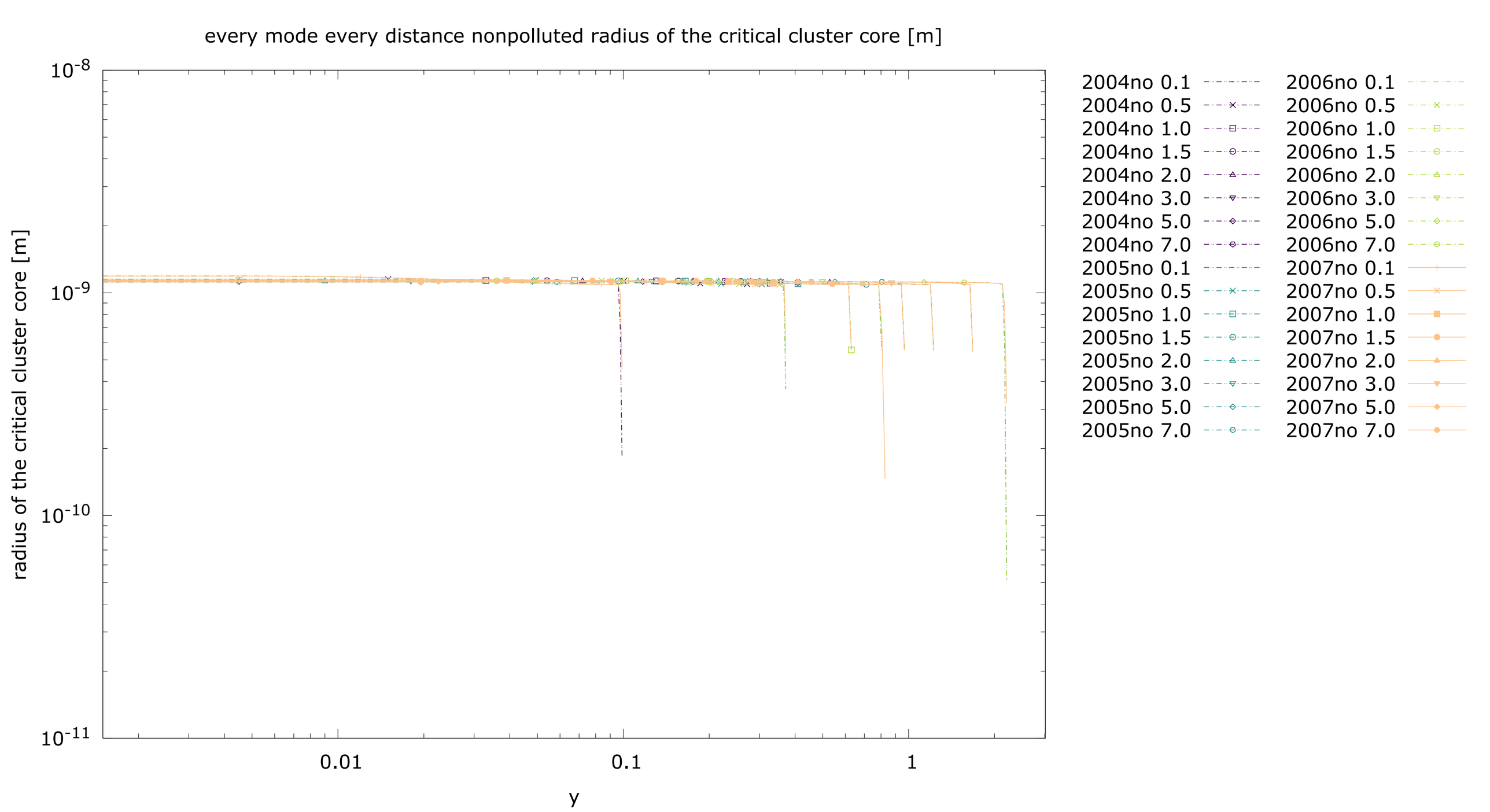
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radius of the critical cluster core [m]
10^{-8}
10^{-9}
10^{-10}
10^{-11}
0.01
0.1
1
y
2004no 0.1
2004no 0.5
2004no 1.0
2004no 1.5
2004no 2.0
2004no 3.0
2004no 5.0
2004no 7.0
2005no 0.1
2005no 0.5
2005no 1.0
2005no 1.5
2005no 2.0
2005no 3.0
2005no 5.0
2005no 7.0
2006no 0.1
2006no 0.5
2006no 1.0
2006no 1.5
2006no 2.0
2006no 3.0
2006no 5.0
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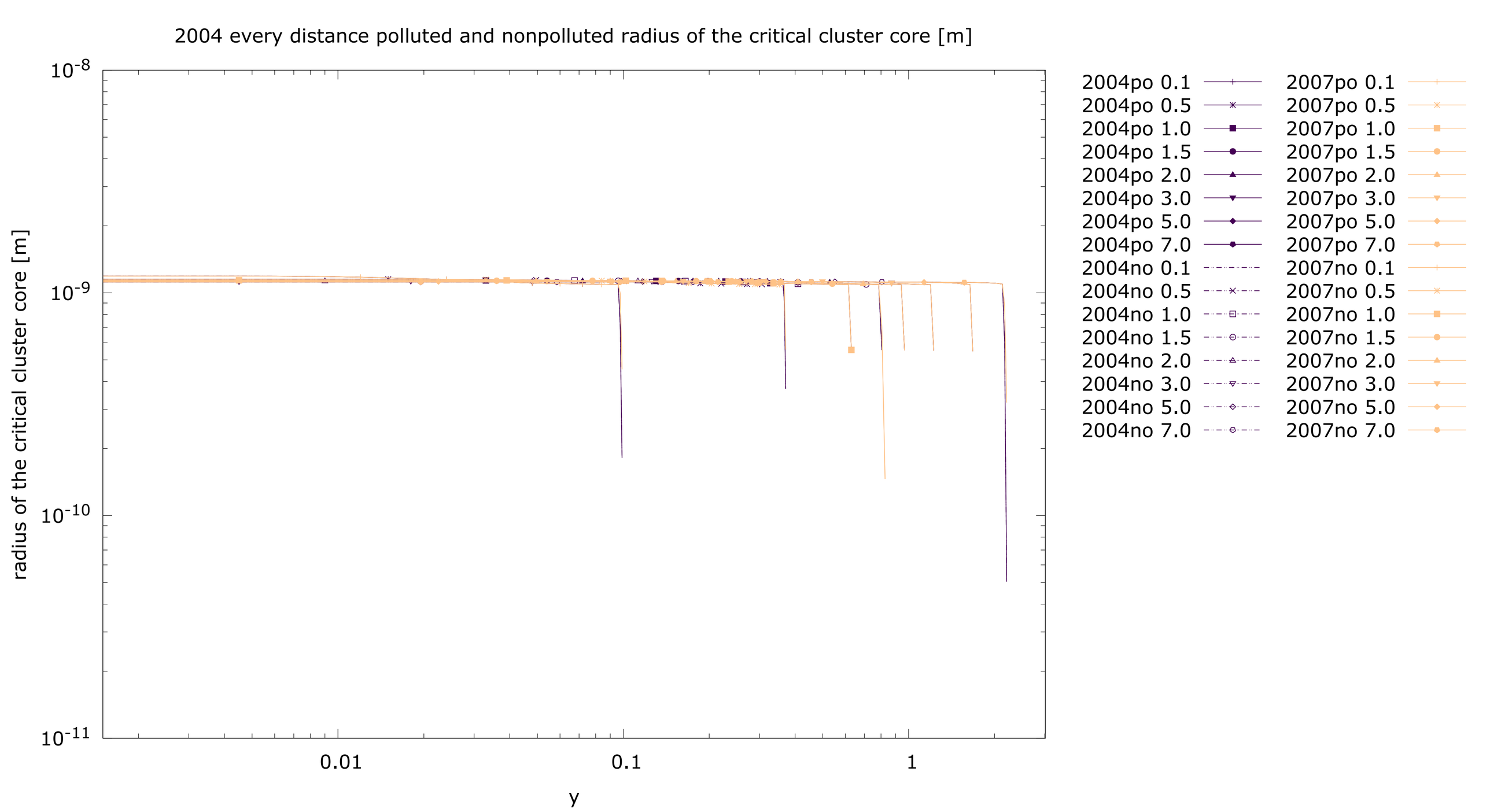
2004 every distance polluted and nonpolluted radius of the critical cluster core [m]
radius of the critical cluster core [m]
10-8
10-9
10-10
10-11
0.01
0.1
1
y
2004po 0.1
2004po 0.5
2004po 1.0
2004po 1.5
2004po 2.0
2004po 3.0
2004po 5.0
2004po 7.0
2004no 0.1
2004no 0.5
2004no 1.0
2004no 1.5
2004no 2.0
2004no 3.0
2004no 5.0
2004no 7.0
2007po 0.1
2007po 0.5
2007po 1.0
2007po 1.5
2007po 2.0
2007po 3.0
2007po 5.0
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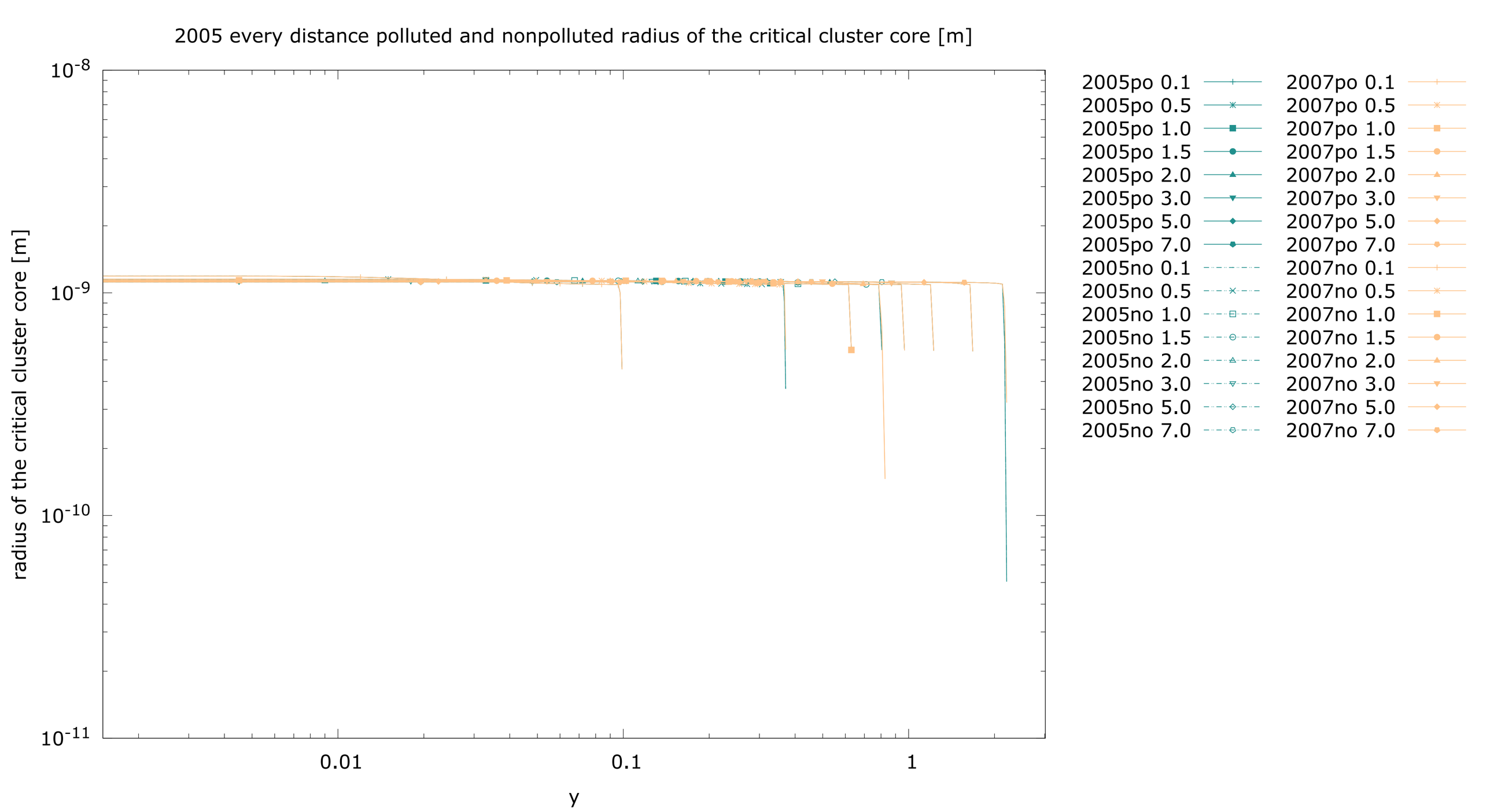
2005 every distance polluted and nonpolluted radius of the critical cluster core [m]
radius of the critical cluster core [m]
10-8
10-9
10-10
10-11
0.01
0.1
1
y
2005po 0.1
2005po 0.5
2005po 1.0
2005po 1.5
2005po 2.0
2005po 3.0
2005po 5.0
2005po 7.0
2005no 0.1
2005no 0.5
2005no 1.0
2005no 1.5
2005no 2.0
2005no 3.0
2005no 5.0
2005no 7.0
2007po 0.1
2007po 0.5
2007po 1.0
2007po 1.5
2007po 2.0
2007po 3.0
2007po 5.0
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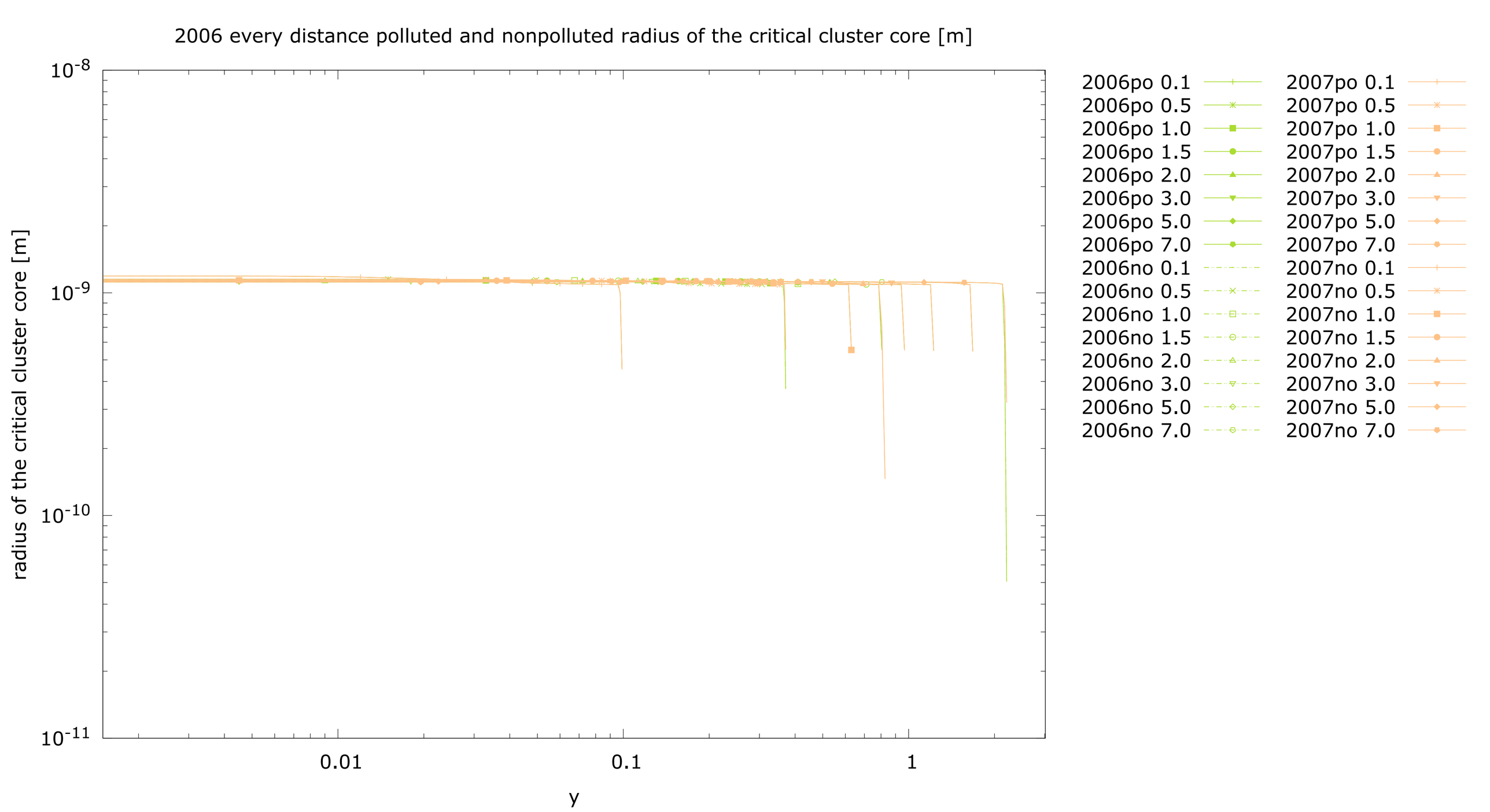
2006 every distance polluted and nonpolluted radius of the critical cluster core [m]
radius of the critical cluster core [m]
10-8
10-9
10-10
10-11
0.01
0.1
1
y
2006po 0.1
2006po 0.5
2006po 1.0
2006po 1.5
2006po 2.0
2006po 3.0
2006po 5.0
2006po 7.0
2006no 0.1
2006no 0.5
2006no 1.0
2006no 1.5
2006no 2.0
2006no 3.0
2006no 5.0
2006no 7.0
2007po 0.1
2007po 0.5
2007po 1.0
2007po 1.5
2007po 2.0
2007po 3.0
2007po 5.0
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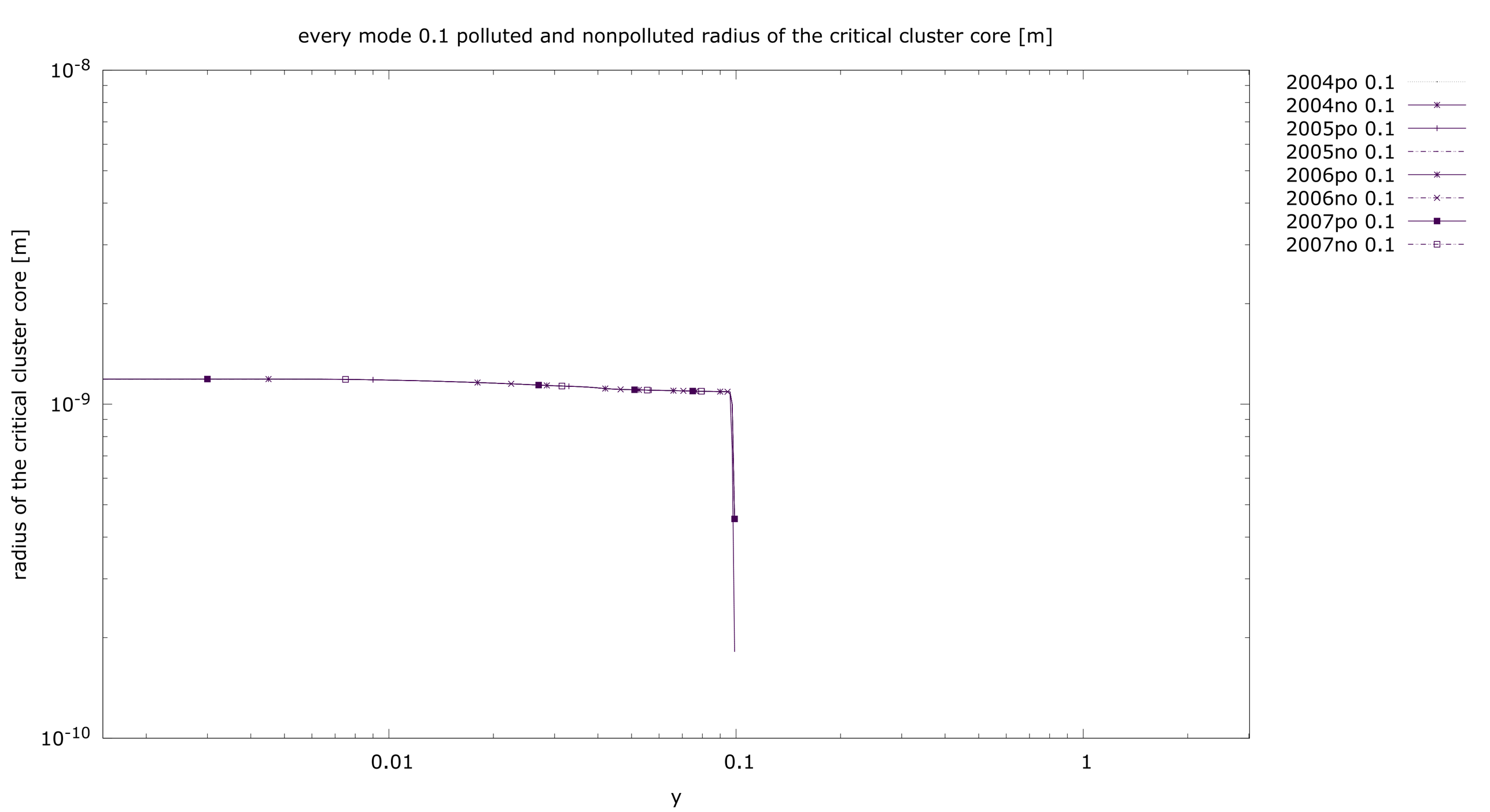
every mode 0.1 polluted and nonpolluted radius of the critical cluster core [m]
radius of the critical cluster core [m]
y
10^{-8}
10^{-9}
10^{-10}
0.01
0.1
1
2004po 0.1
2004no 0.1
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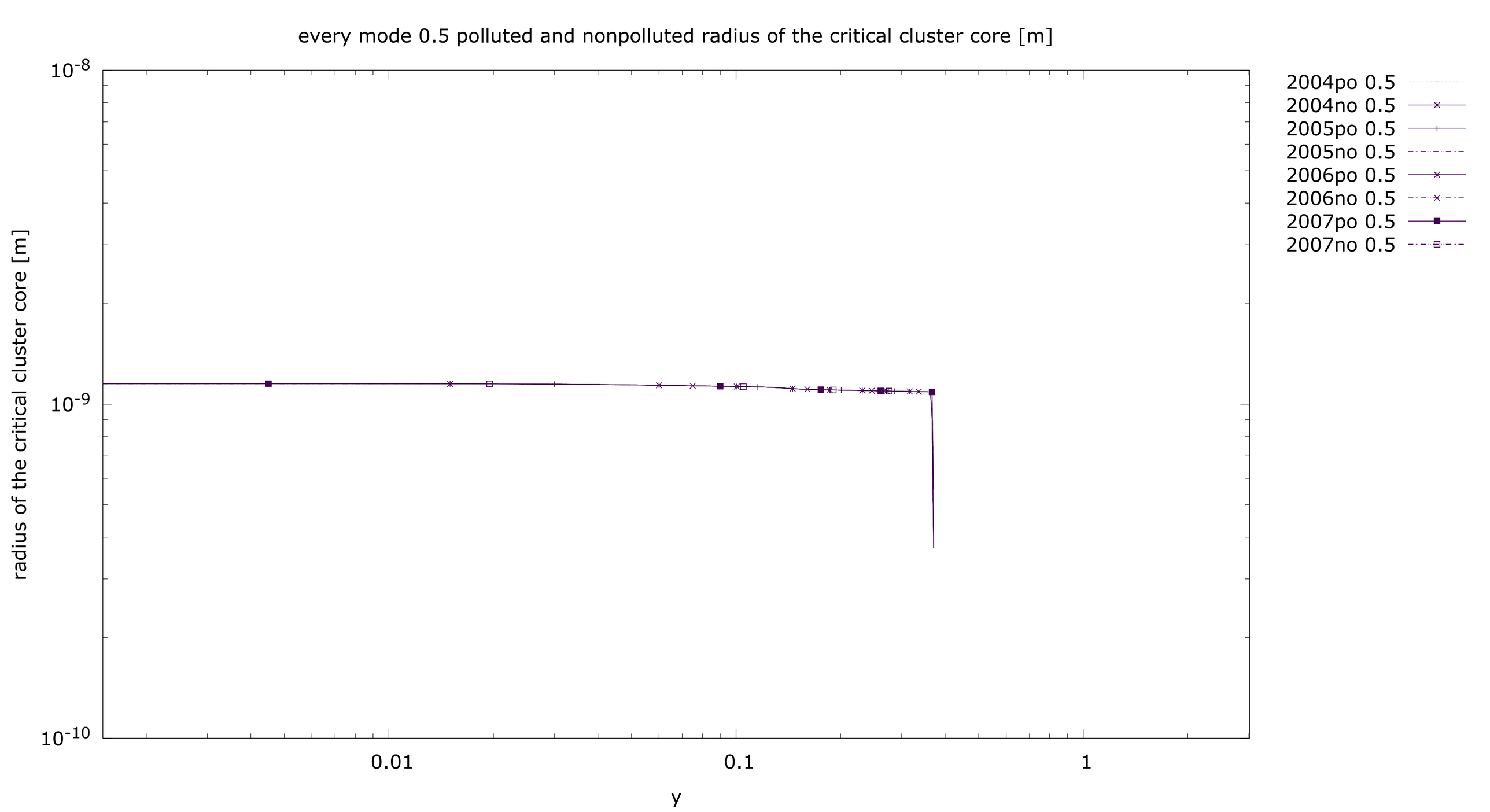
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radius of the critical cluster core [m]
10-8
10-9
10-10
0.01
0.1
1
y
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2004no 0.5
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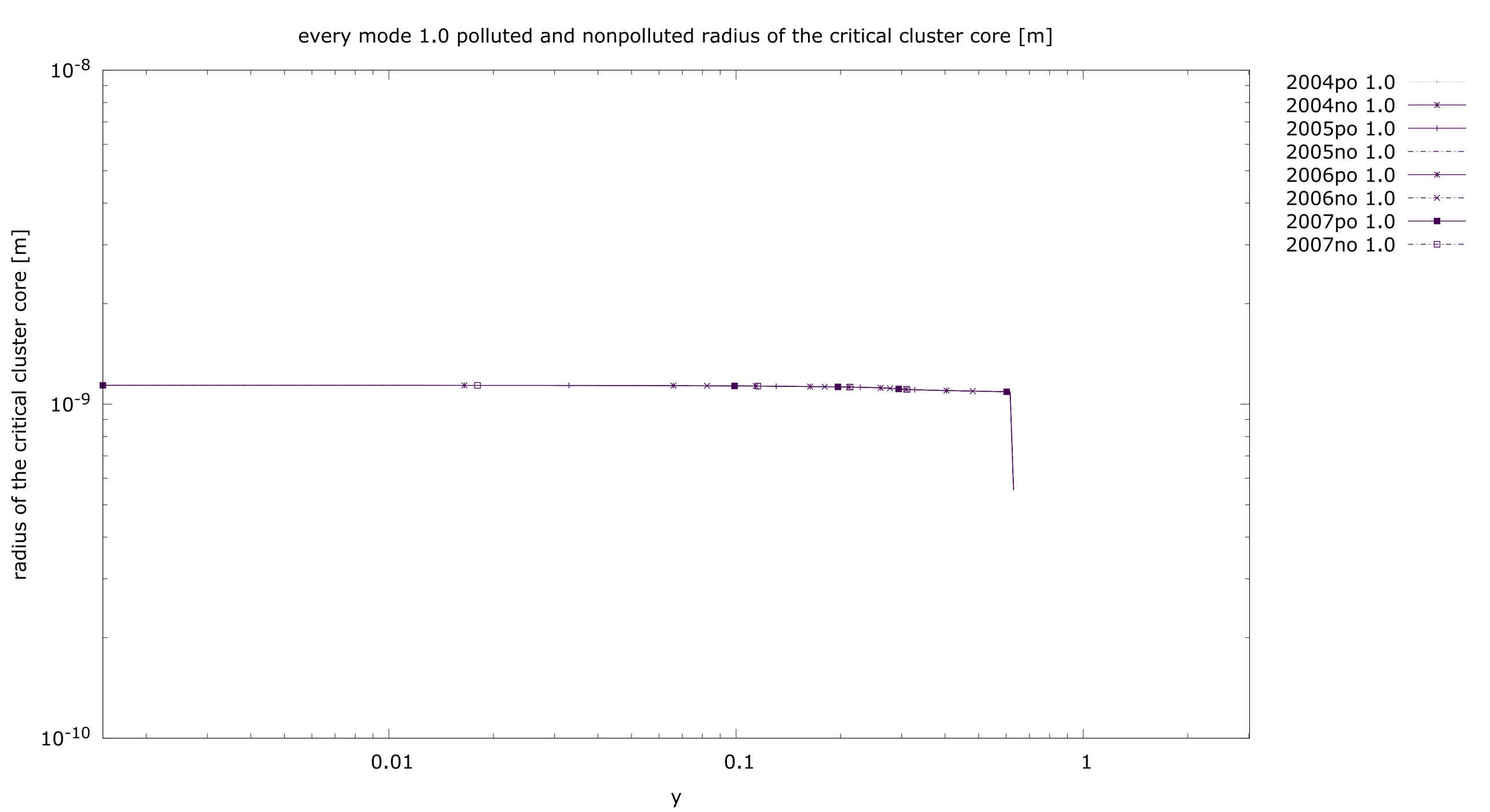
every mode 1.0 polluted and nonpolluted radius of the critical cluster core [m]
radius of the critical cluster core [m]
y
10^{-8}
10^{-9}
10^{-10}
0.01
0.1
1
2004po 1.0
2004no 1.0
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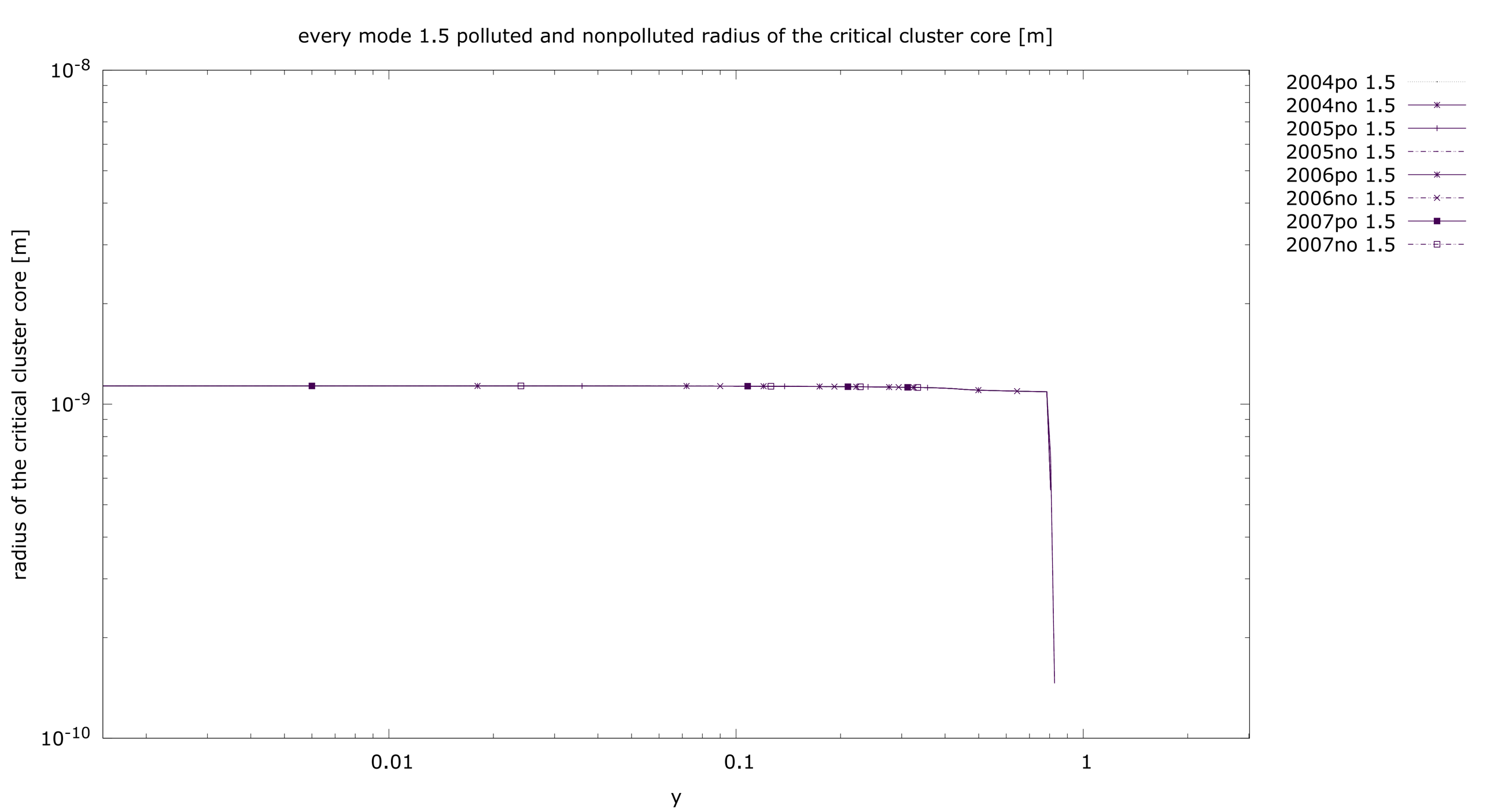
2007no 1.0


every mode 1.5 polluted and nonpolluted radius of the critical cluster core [m]
radius of the critical cluster core [m]
y
10-8
10-9
10-10
0.01
0.1
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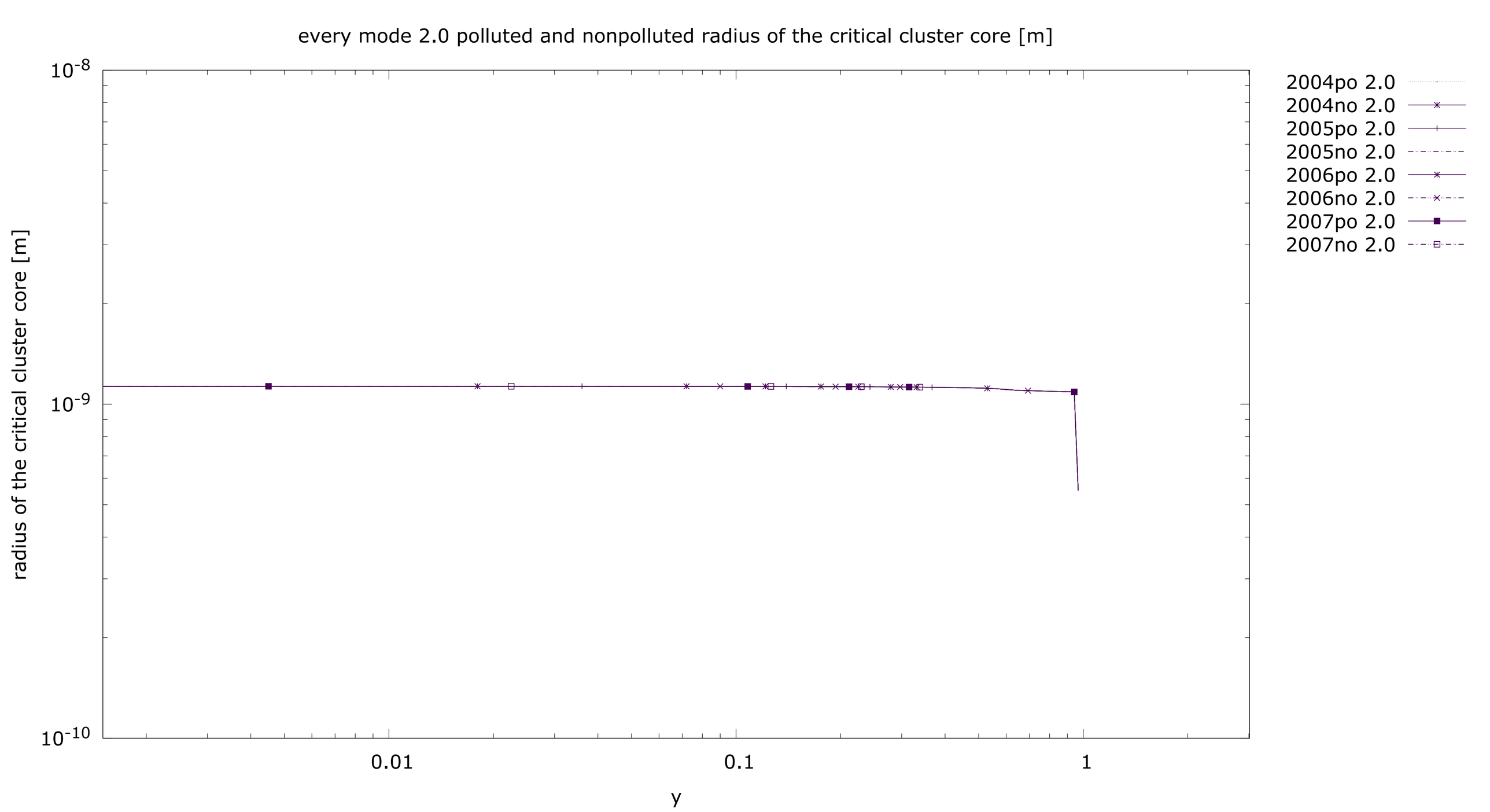
every mode 2.0 polluted and nonpolluted radius of the critical cluster core [m]
radius of the critical cluster core [m]
10-8
10-9
10-10
0.01
0.1
1
y
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2004no 2.0
2005po 2.0
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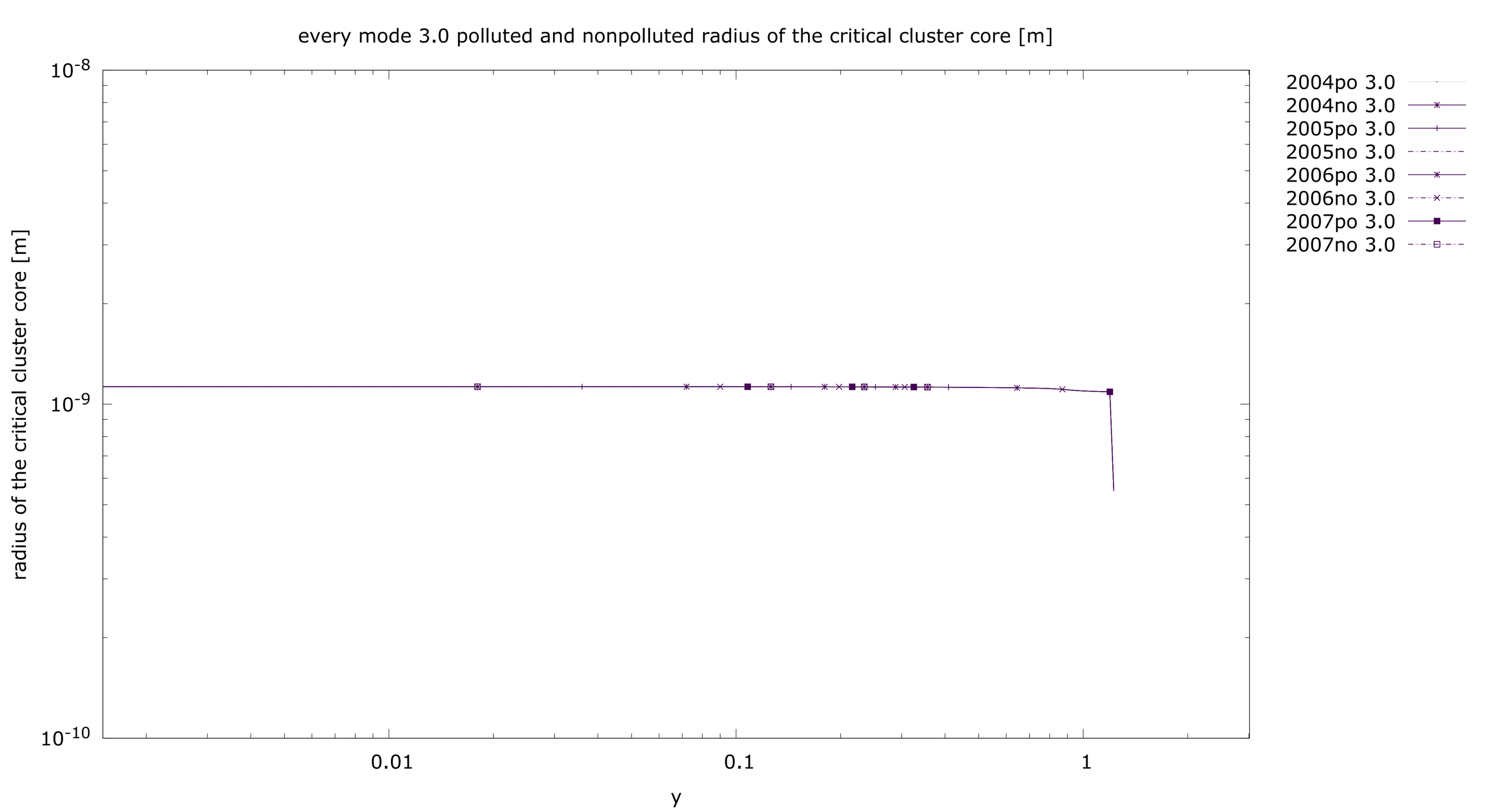
every mode 3.0 polluted and nonpolluted radius of the critical cluster core [m]
radius of the critical cluster core [m]
y
10-8
10-9
10-10
0.01
0.1
1
2004po 3.0
2004no 3.0
2005po 3.0
2005no 3.0
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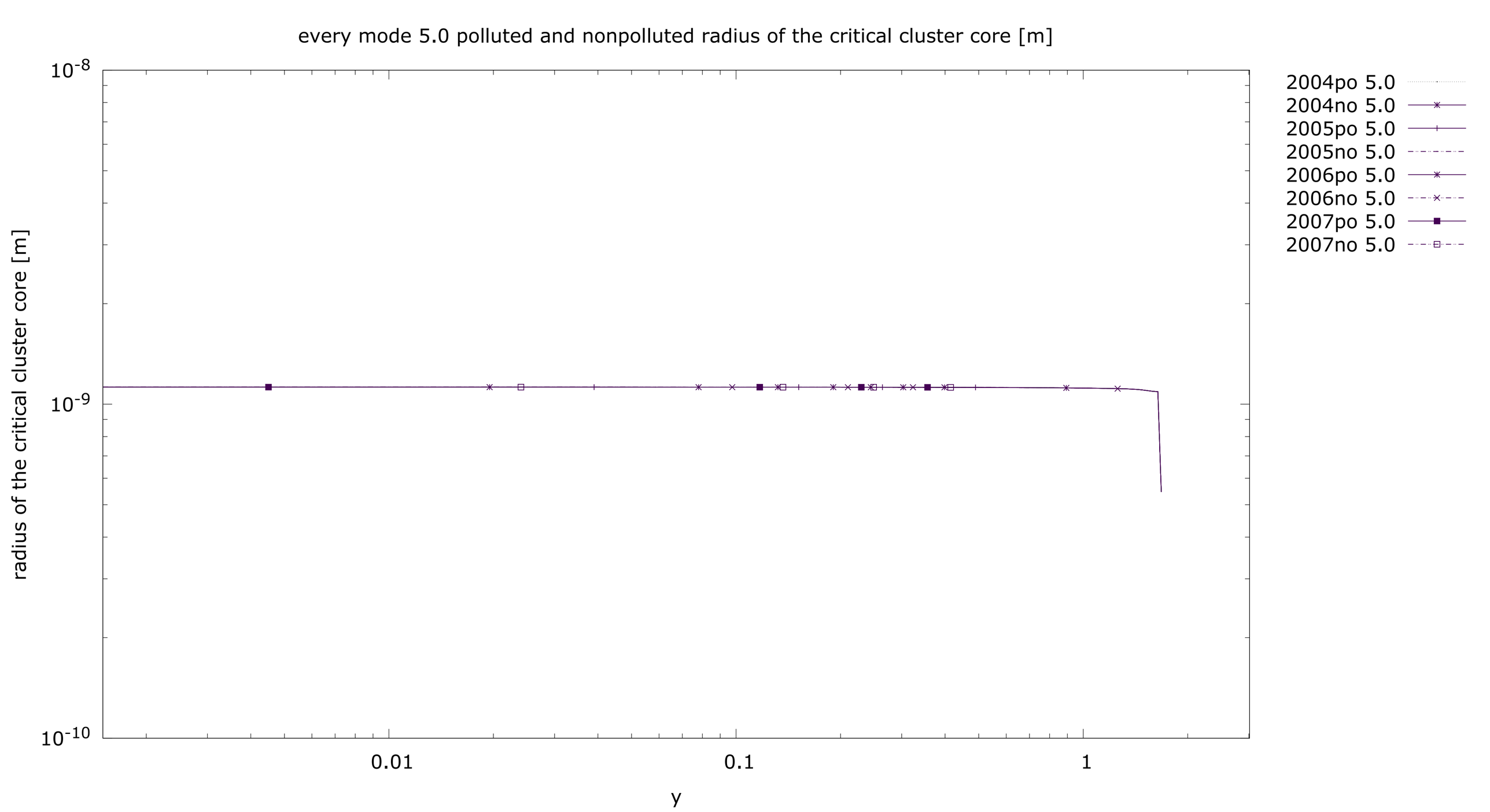
every mode 5.0 polluted and nonpolluted radius of the critical cluster core [m]
radius of the critical cluster core [m]
10-8
10-9
10-10
0.01
0.1
1
y
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2004no 5.0
2005po 5.0
2005no 5.0
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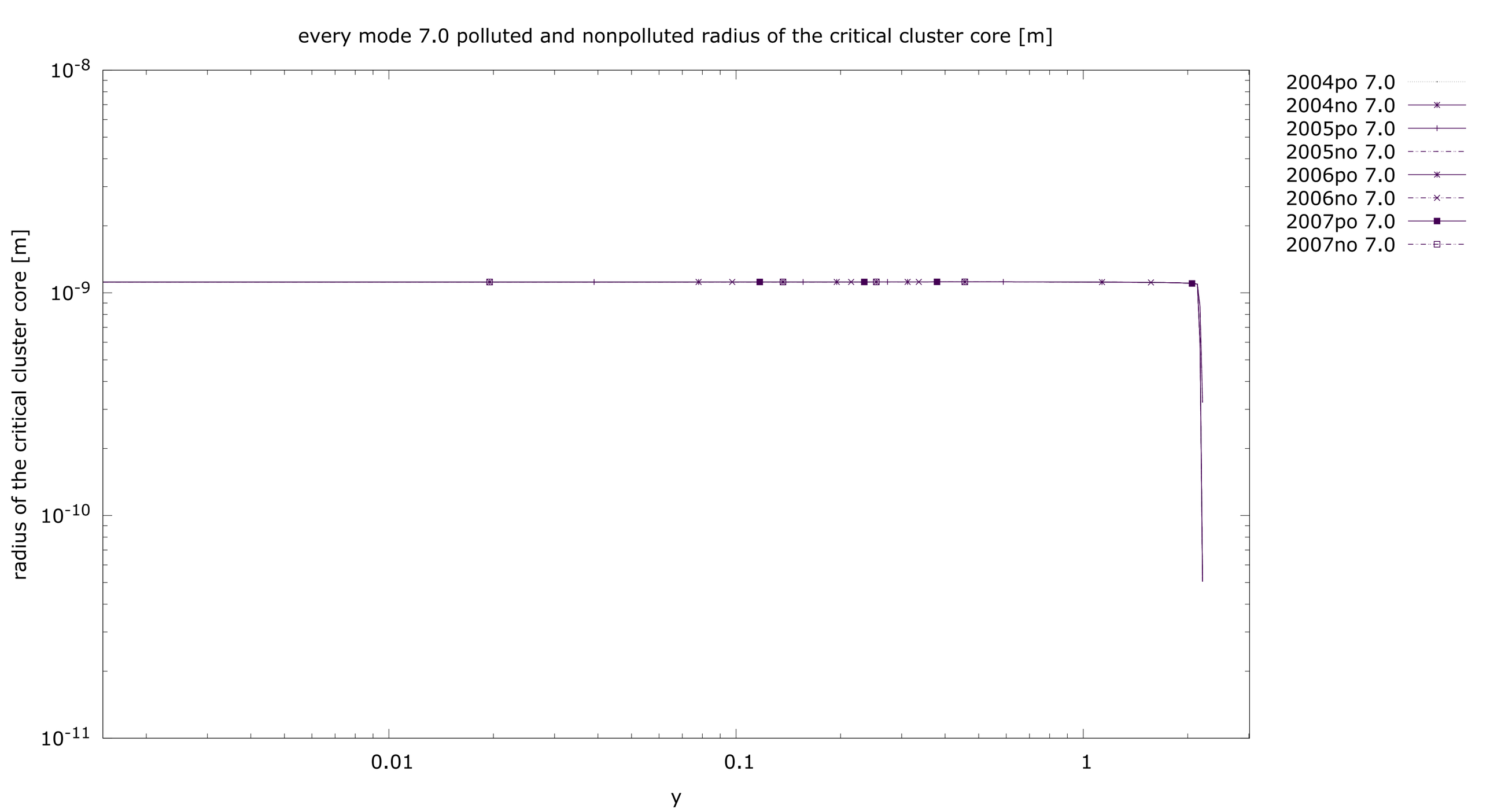
every mode 7.0 polluted and nonpolluted radius of the critical cluster core [m]
radius of the critical cluster core [m]
y
10-8
10-9
10-10
10-11
0.01
0.1
1
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2004no 7.0
2005po 7.0
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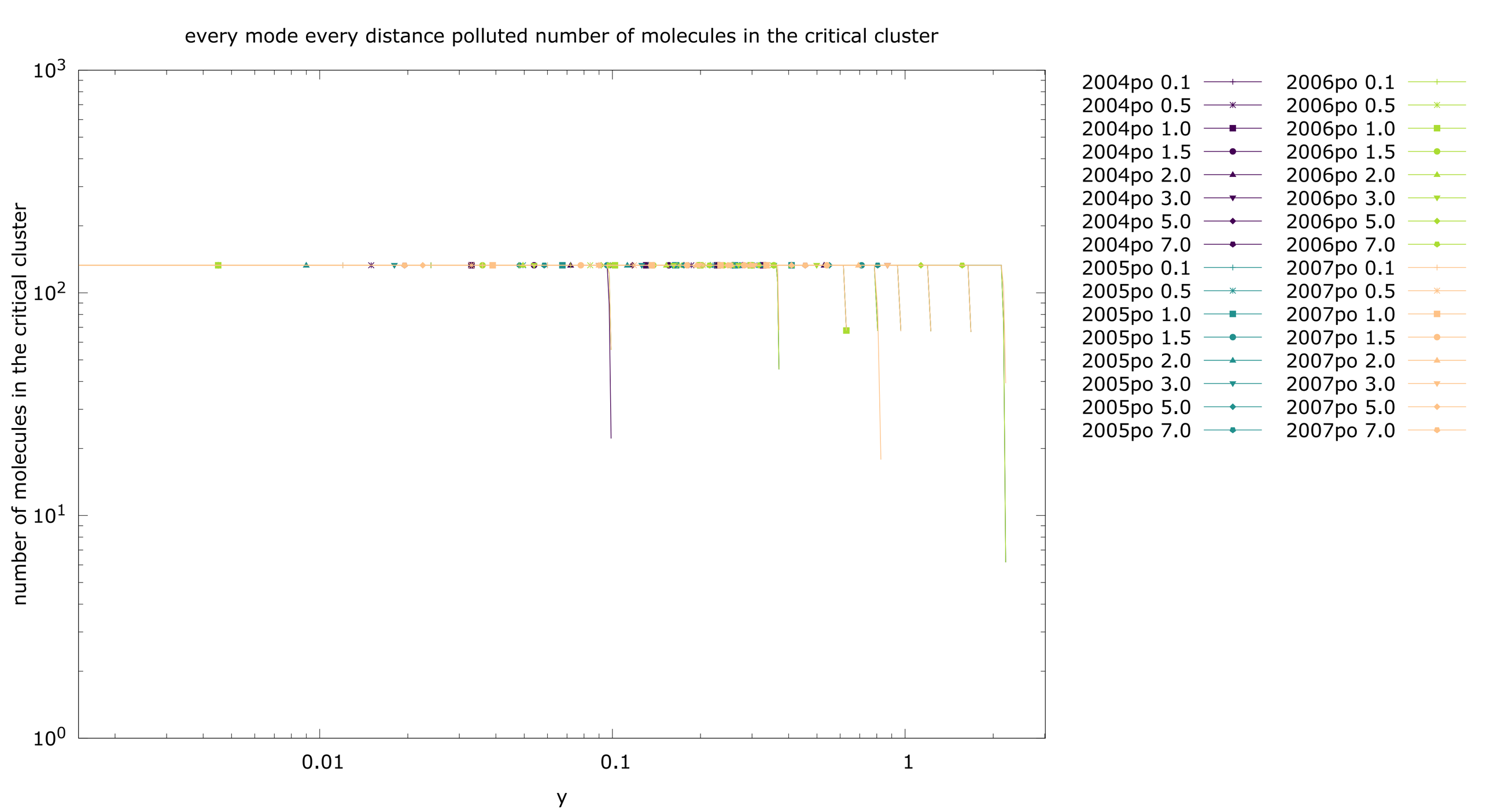
every mode every distance polluted number of molecules in the critical cluster
number of molecules in the critical cluster
y
10^3
10^2
10^1
10^0
0.01
0.1
1
2004po 0.1
2004po 0.5
2004po 1.0
2004po 1.5
2004po 2.0
2004po 3.0
2004po 5.0
2004po 7.0
2005po 0.1
2005po 0.5
2005po 1.0
2005po 1.5
2005po 2.0
2005po 3.0
2005po 5.0
2005po 7.0
2006po 0.1
2006po 0.5
2006po 1.0
2006po 1.5
2006po 2.0
2006po 3.0
2006po 5.0
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2007po 0.5
2007po 1.0
2007po 1.5
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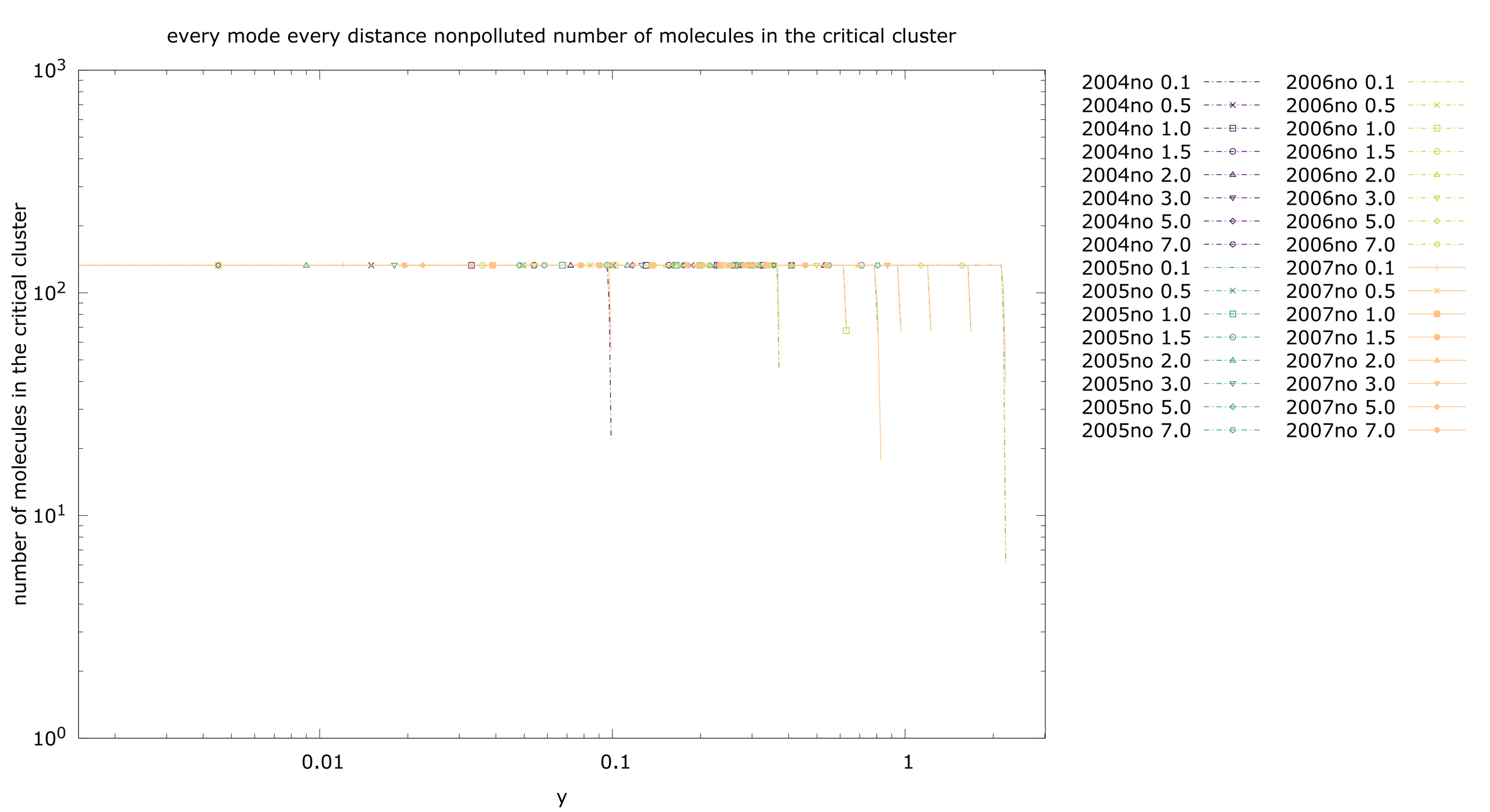
every mode every distance nonpolluted number of molecules in the critical cluster
number of molecules in the critical cluster
10^3
10^2
10^1
10^0
0.01
0.1
1
y
2004no 0.1
2004no 0.5
2004no 1.0
2004no 1.5
2004no 2.0
2004no 3.0
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2004no 7.0
2005no 0.1
2005no 0.5
2005no 1.0
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2005no 2.0
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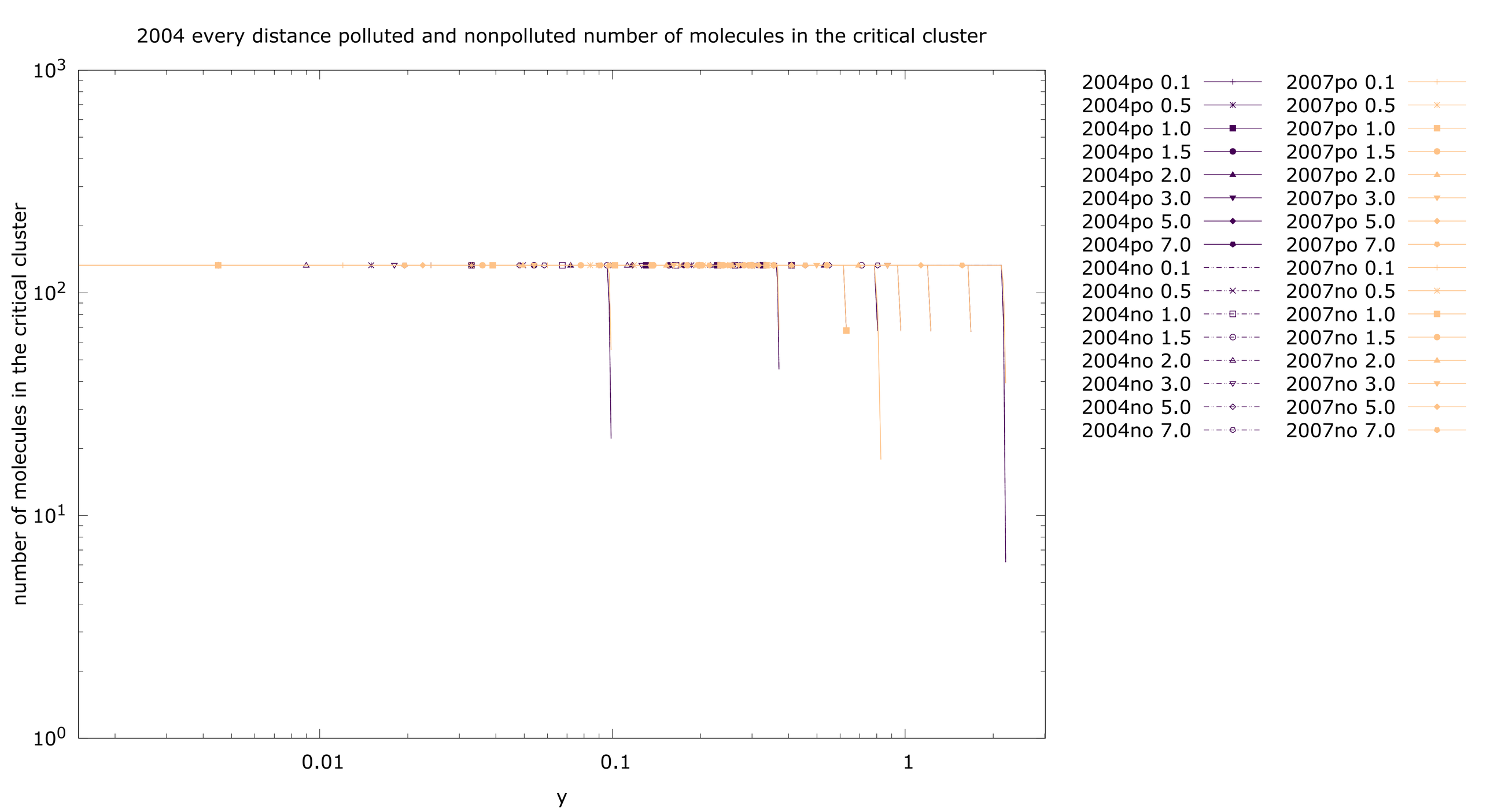
2004 every distance polluted and nonpolluted number of molecules in the critical cluster
number of molecules in the critical cluster
y
10^3
10^2
10^1
10^0
0.01
0.1
1
2004po 0.1
2004po 0.5
2004po 1.0
2004po 1.5
2004po 2.0
2004po 3.0
2004po 5.0
2004po 7.0
2004no 0.1
2004no 0.5
2004no 1.0
2004no 1.5
2004no 2.0
2004no 3.0
2004no 5.0
2004no 7.0
2007po 0.1
2007po 0.5
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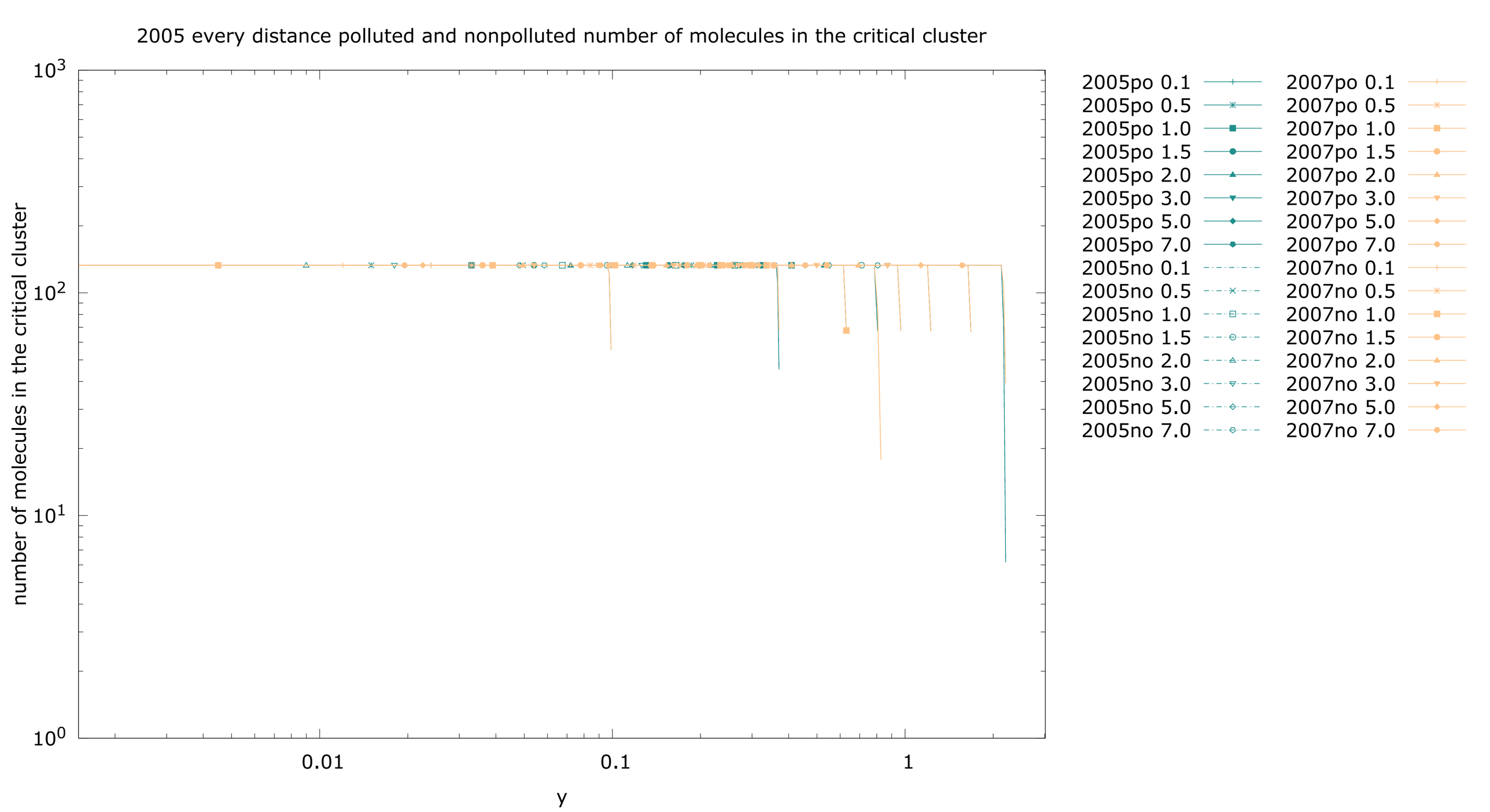
2005 every distance polluted and nonpolluted number of molecules in the critical cluster
number of molecules in the critical cluster
y
10^3
10^2
10^1
10^0
0.01
0.1
1
2005po 0.1
2005po 0.5
2005po 1.0
2005po 1.5
2005po 2.0
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2005po 7.0
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2007po 0.5
2007po 1.0
2007po 1.5
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2007no 1.0
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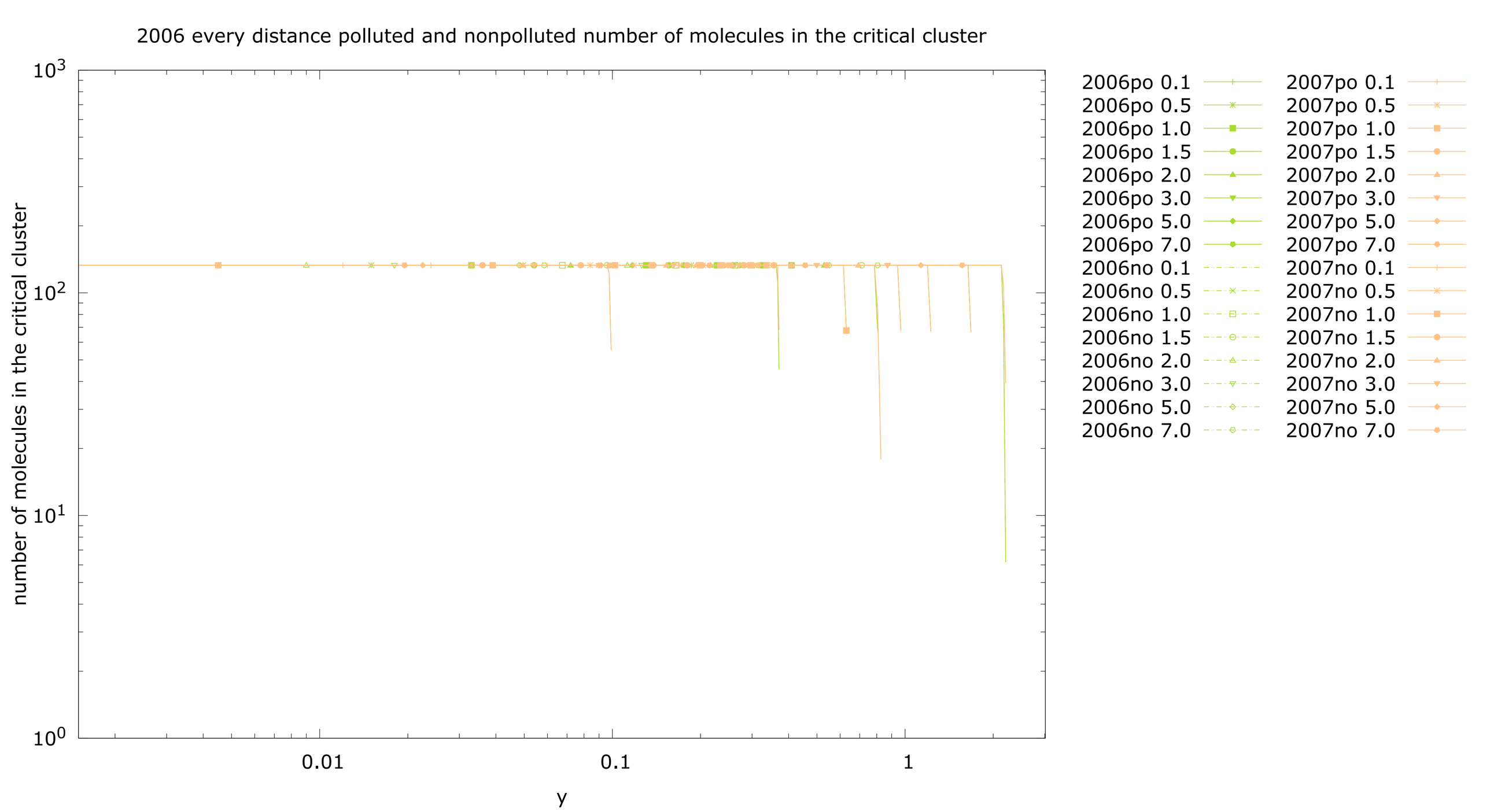
2007no 7.0


2006 every distance polluted and nonpolluted number of molecules in the critical cluster
number of molecules in the critical cluster
y
10^3
10^2
10^1
10^0
0.01
0.1
1
2006po 0.1
2006po 0.5
2006po 1.0
2006po 1.5
2006po 2.0
2006po 3.0
2006po 5.0
2006po 7.0
2006no 0.1
2006no 0.5
2006no 1.0
2006no 1.5
2006no 2.0
2006no 3.0
2006no 5.0
2006no 7.0
2007po 0.1
2007po 0.5
2007po 1.0
2007po 1.5
2007po 2.0
2007po 3.0
2007po 5.0
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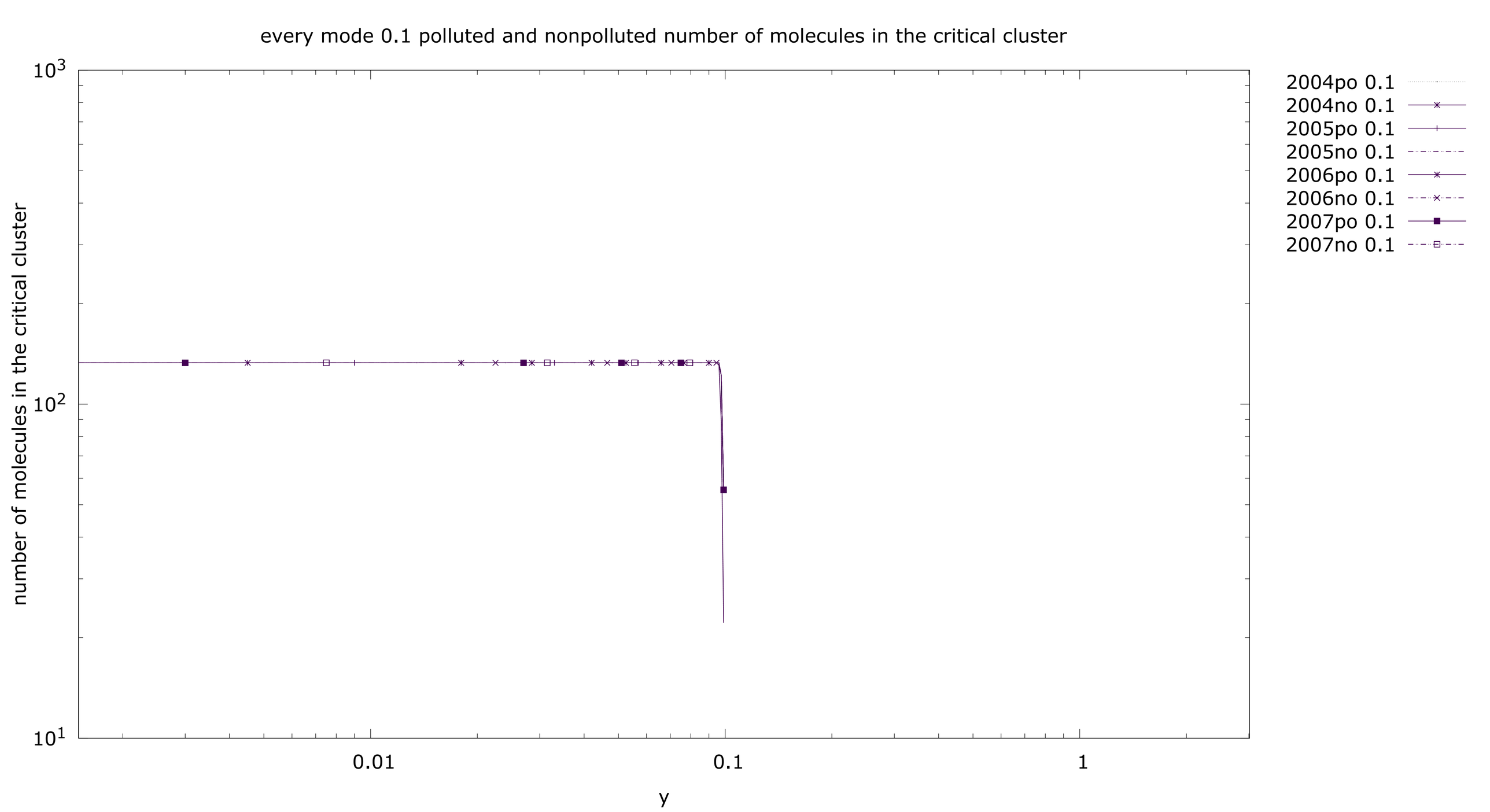
every mode 0.1 polluted and nonpolluted number of molecules in the critical cluster
number of molecules in the critical cluster
10^3
10^2
10^1
0.01
0.1
1
y
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2004no 0.1
2005po 0.1
2005no 0.1
2006po 0.1
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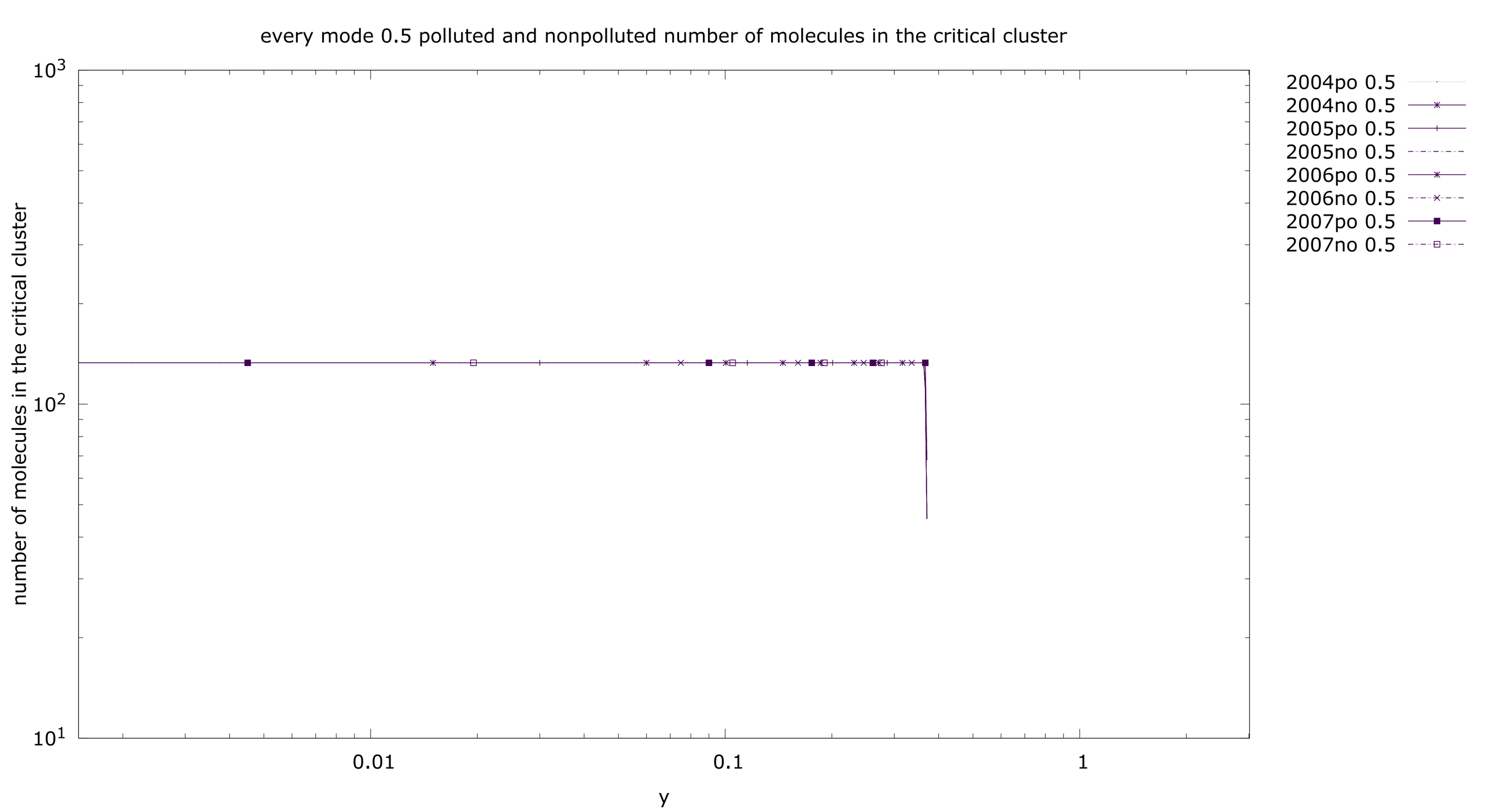
every mode 0.5 polluted and nonpolluted number of molecules in the critical cluster
number of molecules in the critical cluster
10^3
10^2
10^1
0.01
0.1
1
y
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2004no 0.5
2005po 0.5
2005no 0.5
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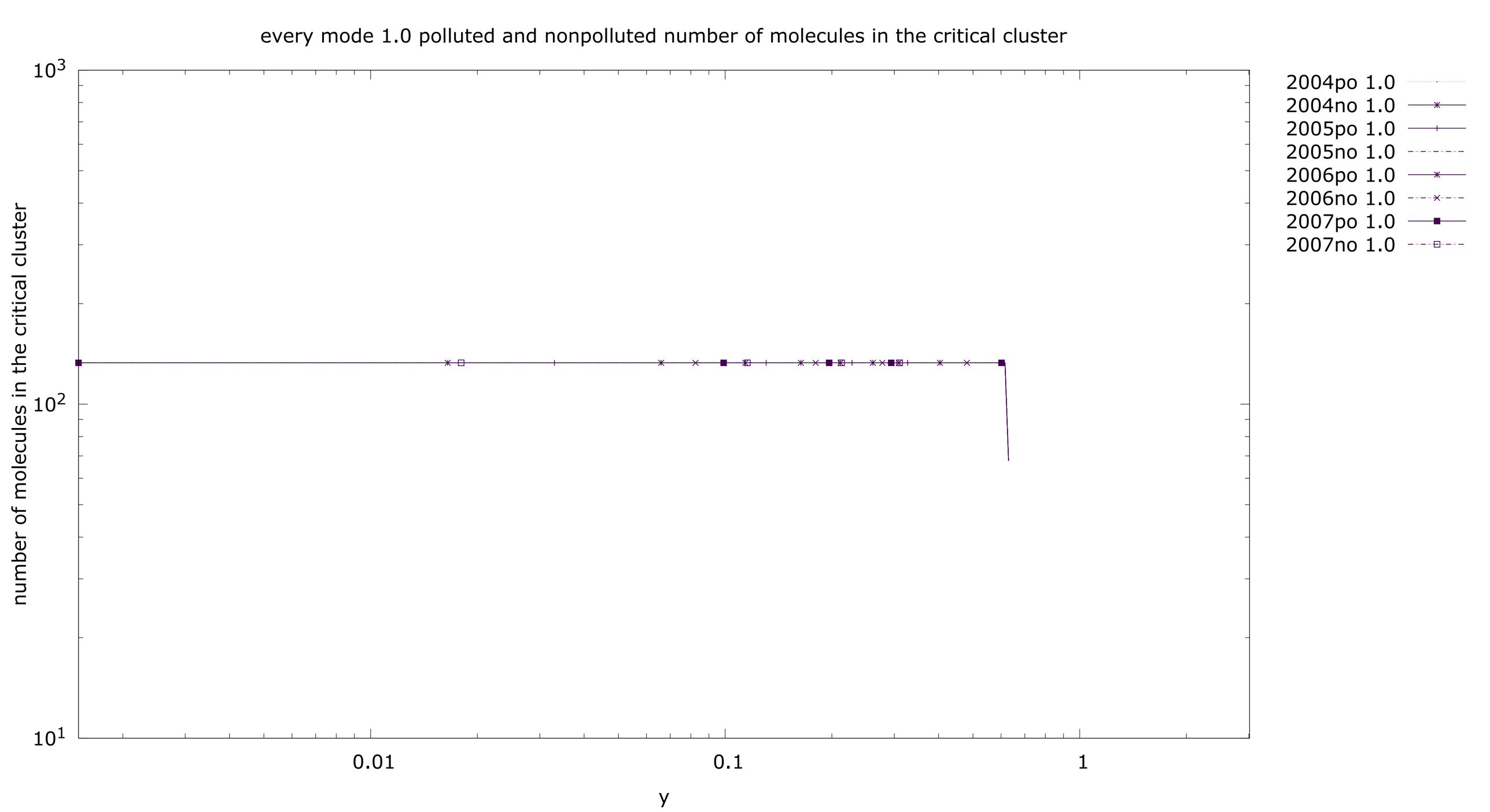
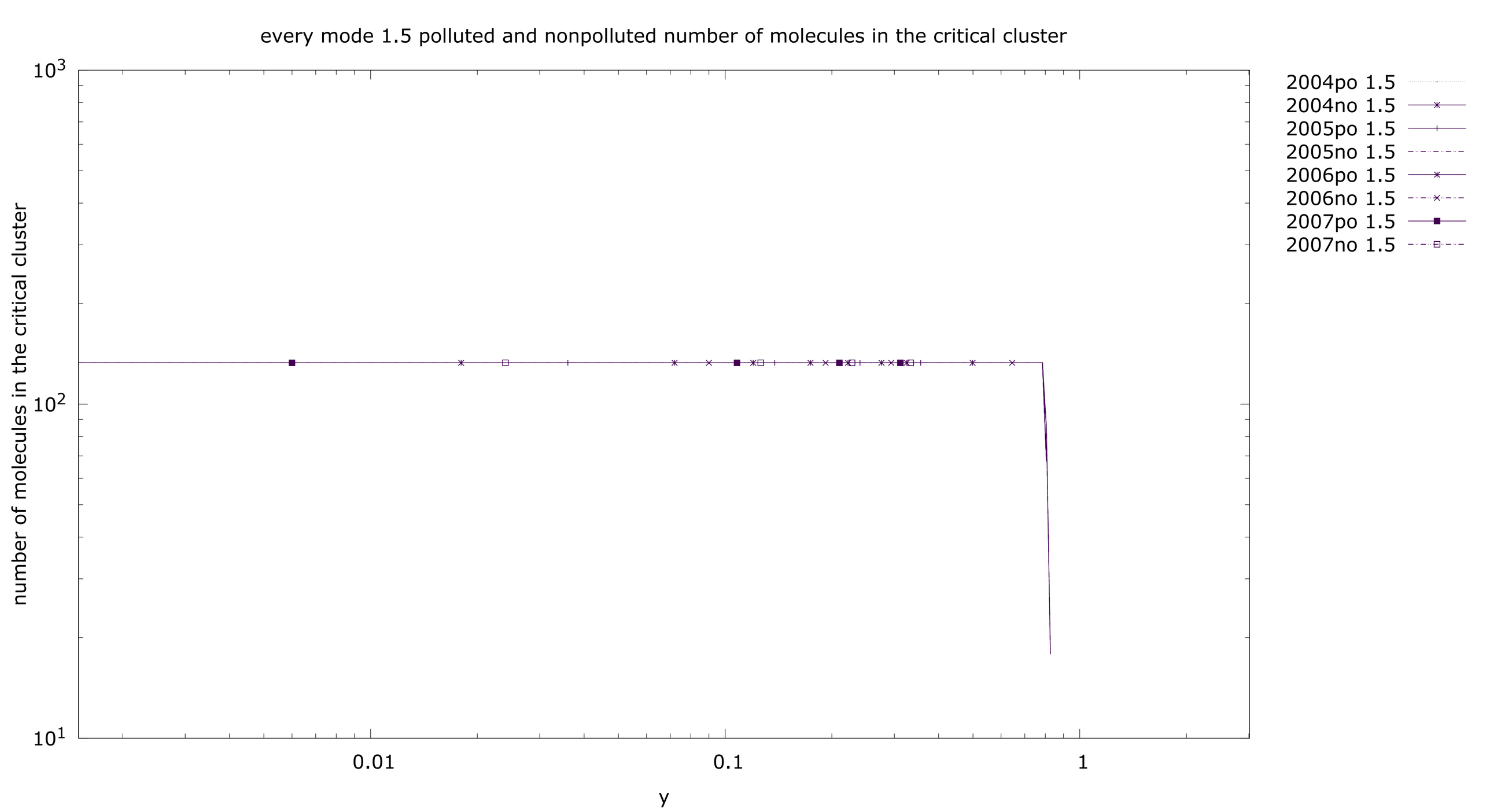

every mode 1.0 polluted and nonpolluted number of molecules in the critical cluster
number of molecules in the critical cluster
10^3
10^2
10^1
0.01
0.1
1
y
2004po 1.0
2004no 1.0
2005po 1.0
2005no 1.0
2006po 1.0
2006no 1.0
2007po 1.0
2007no 1.0


every mode 1.5 polluted and nonpolluted number of molecules in the critical cluster
number of molecules in the critical cluster
10^3
10^2
10^1
0.01
0.1
1
y
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2004no 1.5
2005po 1.5
2005no 1.5
2006po 1.5
2006no 1.5
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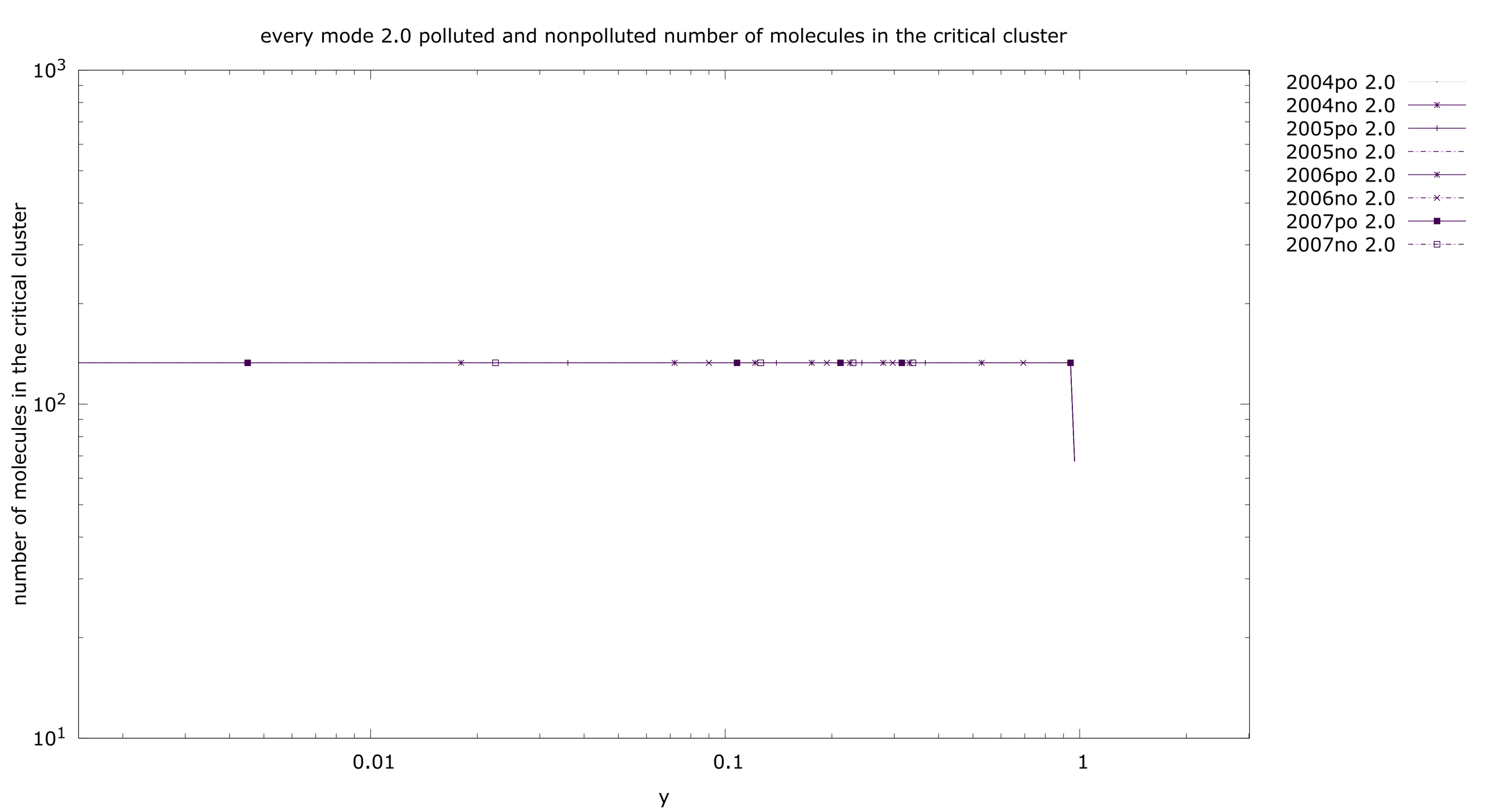
2007no 1.5


every mode 2.0 polluted and nonpolluted number of molecules in the critical cluster
number of molecules in the critical cluster
10^3
10^2
10^1
0.01
0.1
1
y
2004po 2.0
2004no 2.0
2005po 2.0
2005no 2.0
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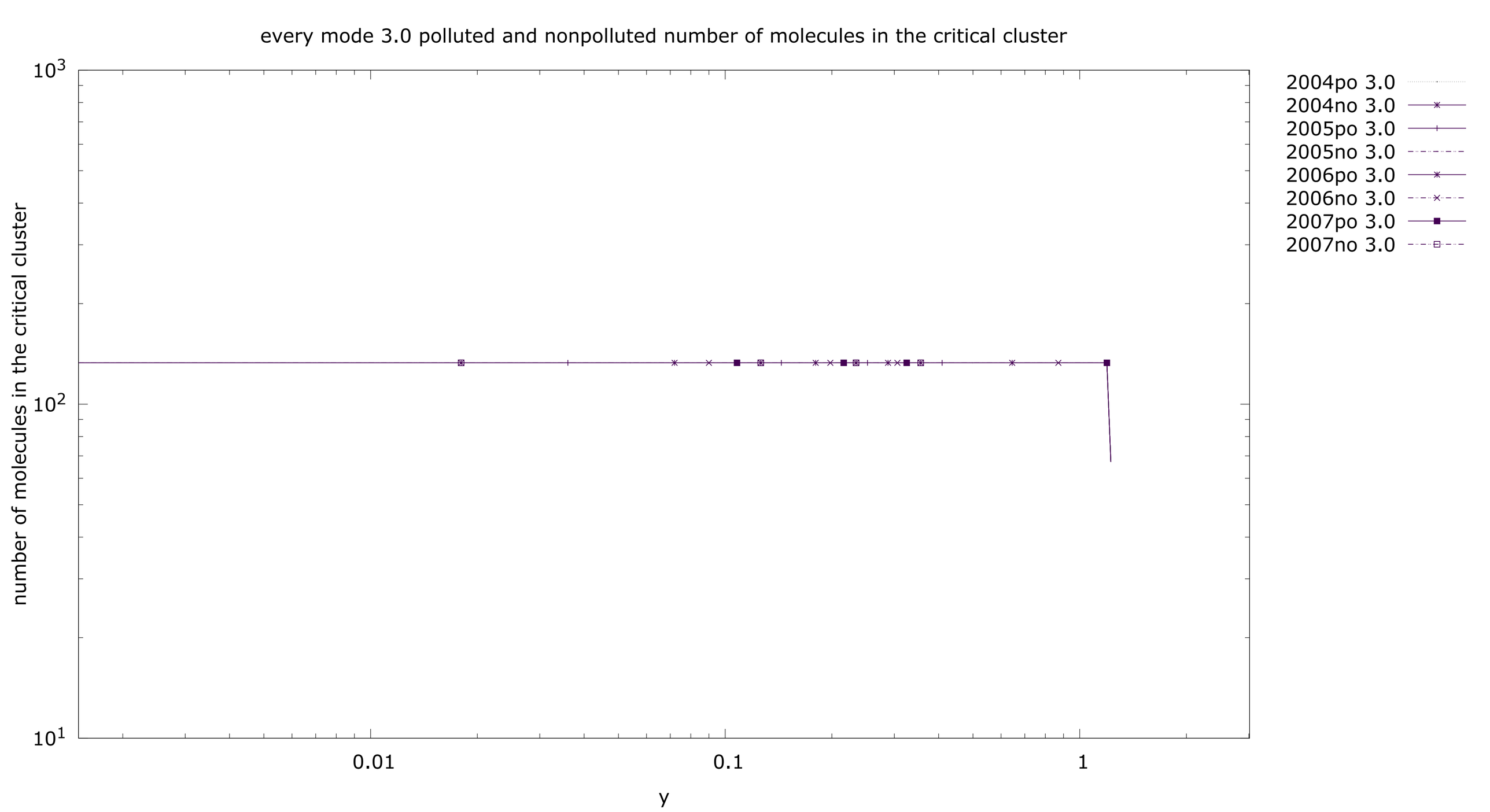
2007po 2.0
2007no 2.0


every mode 3.0 polluted and nonpolluted number of molecules in the critical cluster
number of molecules in the critical cluster
10^3
10^2
10^1
0.01
0.1
1
y
2004po 3.0
2004no 3.0
2005po 3.0
2005no 3.0
2006po 3.0
2006no 3.0
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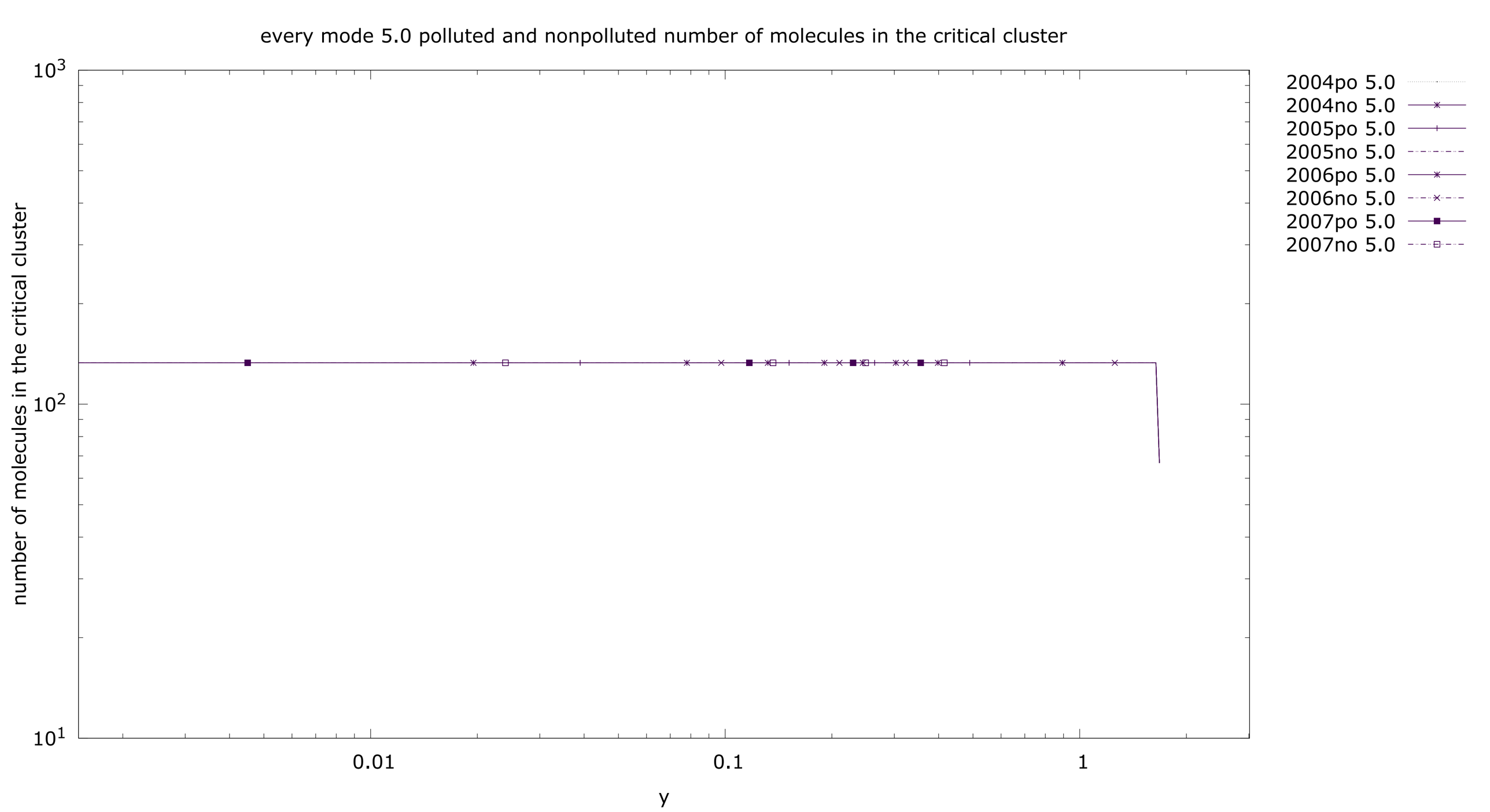
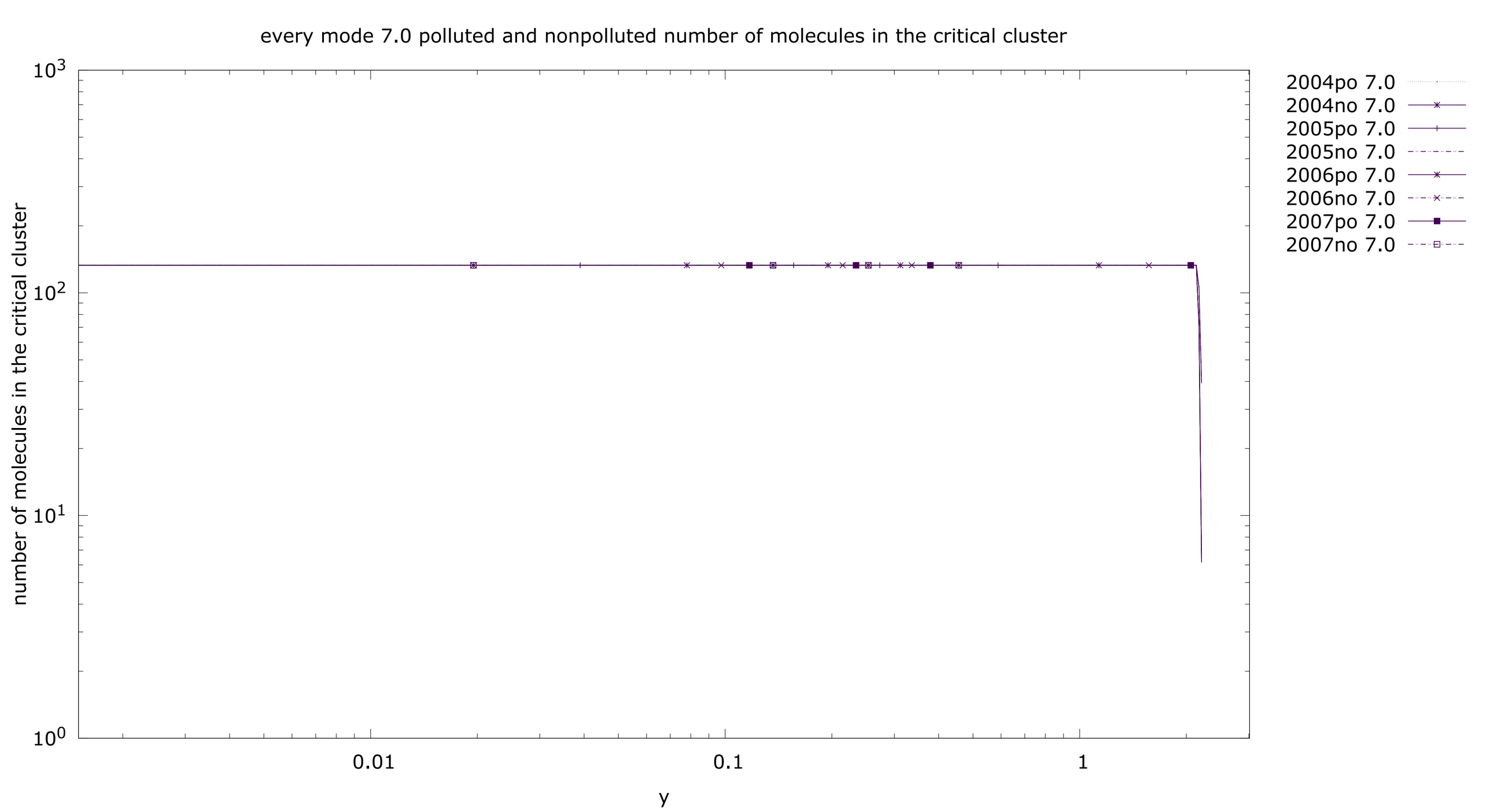
2007no 3.0


every mode 5.0 polluted and nonpolluted number of molecules in the critical cluster
number of molecules in the critical cluster
y
10^3
10^2
10^1
0.01
0.1
1
2004po 5.0
2004no 5.0
2005po 5.0
2005no 5.0
2006po 5.0
2006no 5.0
2007po 5.0
2007no 5.0


every mode 7.0 polluted and nonpolluted number of molecules in the critical cluster
number of molecules in the critical cluster
y
10^3
10^2
10^1
10^0
0.01
0.1
1
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2004no 7.0
2005po 7.0
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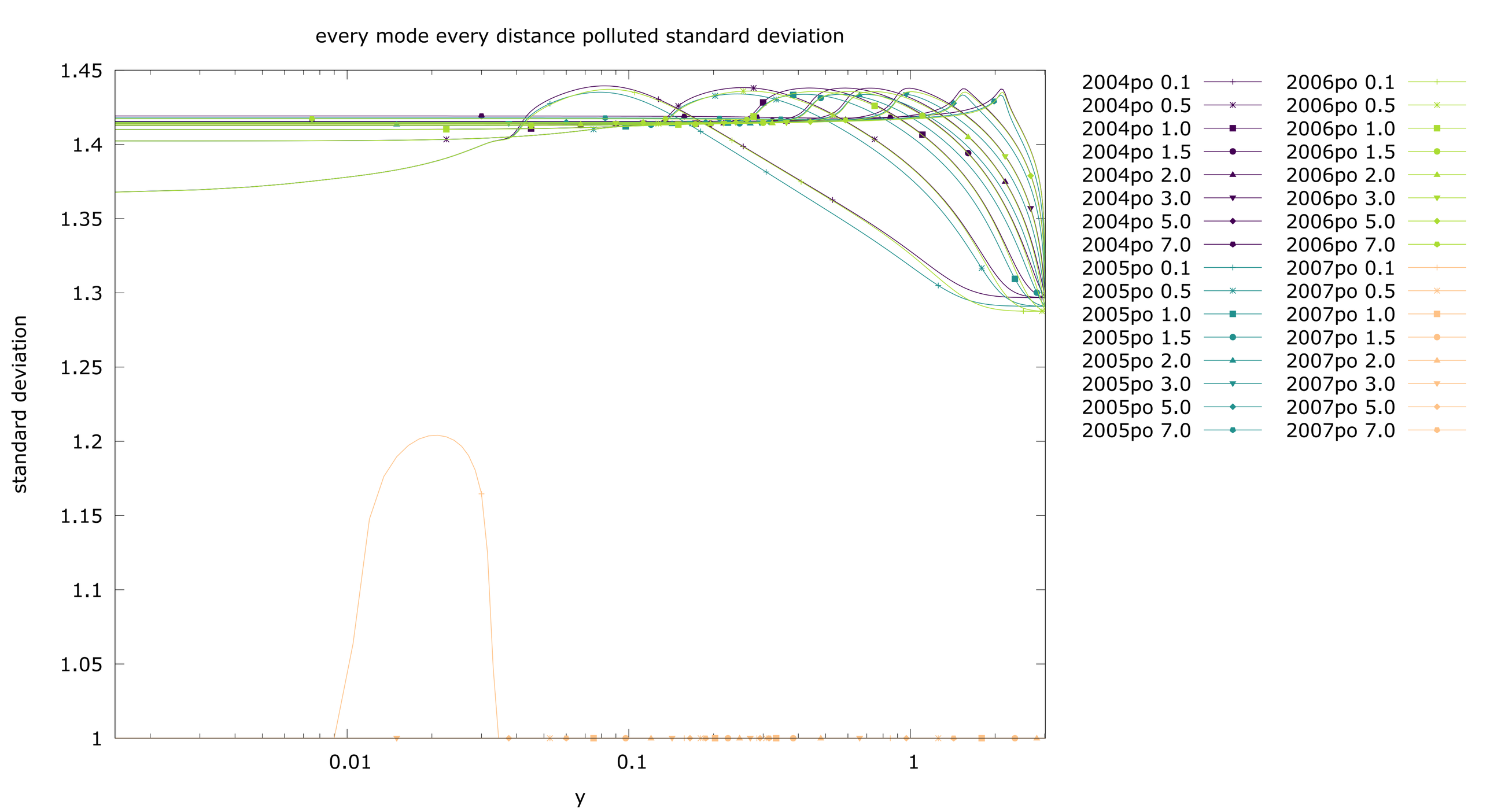
2007no 7.0


every mode every distance polluted standard deviation
standard deviation
y
1.45
1.4
1.35
1.3
1.25
1.2
1.15
1.1
1.05
1
0.01
0.1
1
2004po 0.1
2004po 0.5
2004po 1.0
2004po 1.5
2004po 2.0
2004po 3.0
2004po 5.0
2004po 7.0
2005po 0.1
2005po 0.5
2005po 1.0
2005po 1.5
2005po 2.0
2005po 3.0
2005po 5.0
2005po 7.0
2006po 0.1
2006po 0.5
2006po 1.0
2006po 1.5
2006po 2.0
2006po 3.0
2006po 5.0
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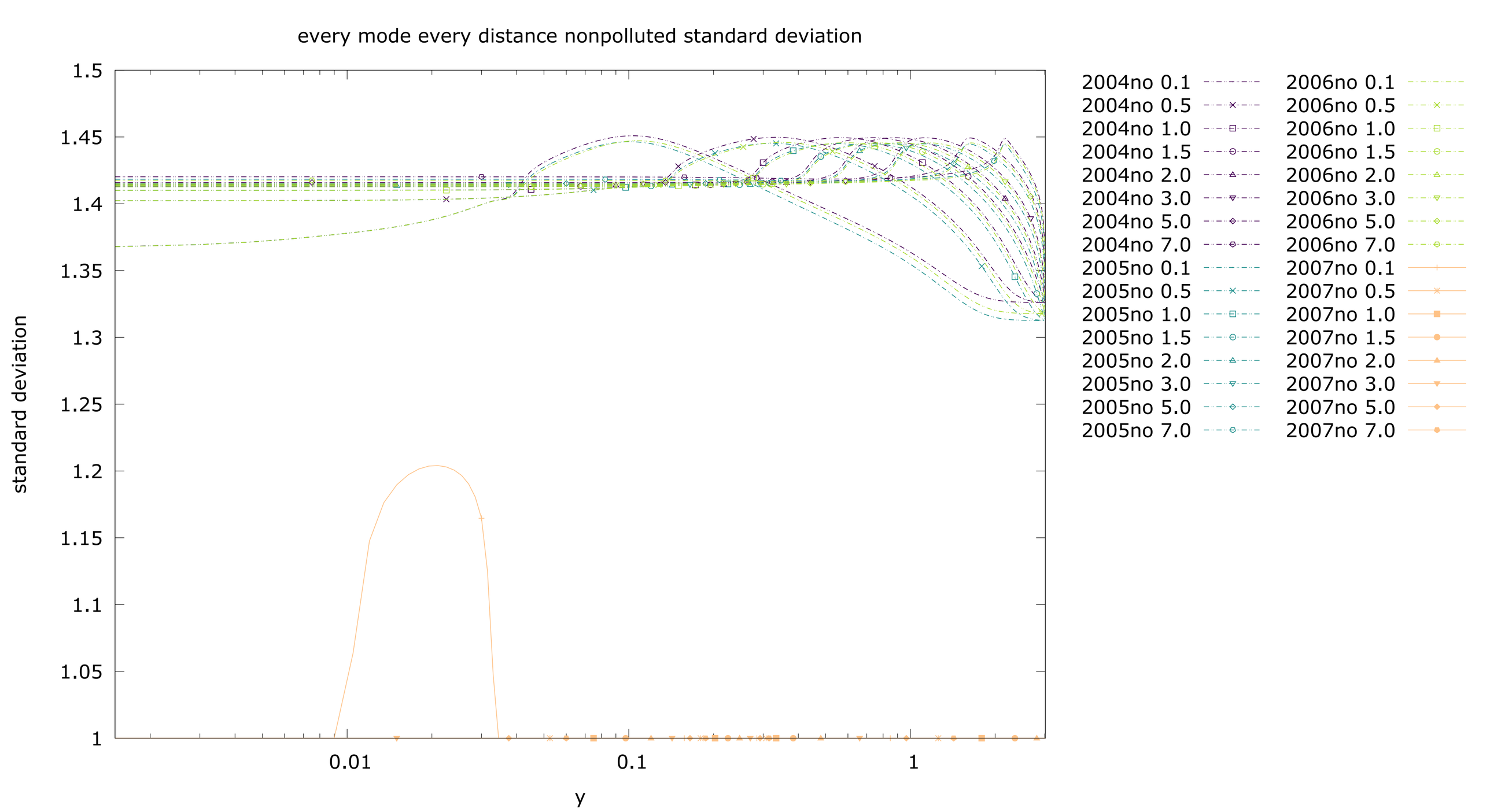
every mode every distance nonpolluted standard deviation
standard deviation
y
1.5
1.45
1.4
1.35
1.3
1.25
1.2
1.15
1.1
1.05
1
0.01
0.1
1
2004no 0.1
2004no 0.5
2004no 1.0
2004no 1.5
2004no 2.0
2004no 3.0
2004no 5.0
2004no 7.0
2005no 0.1
2005no 0.5
2005no 1.0
2005no 1.5
2005no 2.0
2005no 3.0
2005no 5.0
2005no 7.0
2006no 0.1
2006no 0.5
2006no 1.0
2006no 1.5
2006no 2.0
2006no 3.0
2006no 5.0
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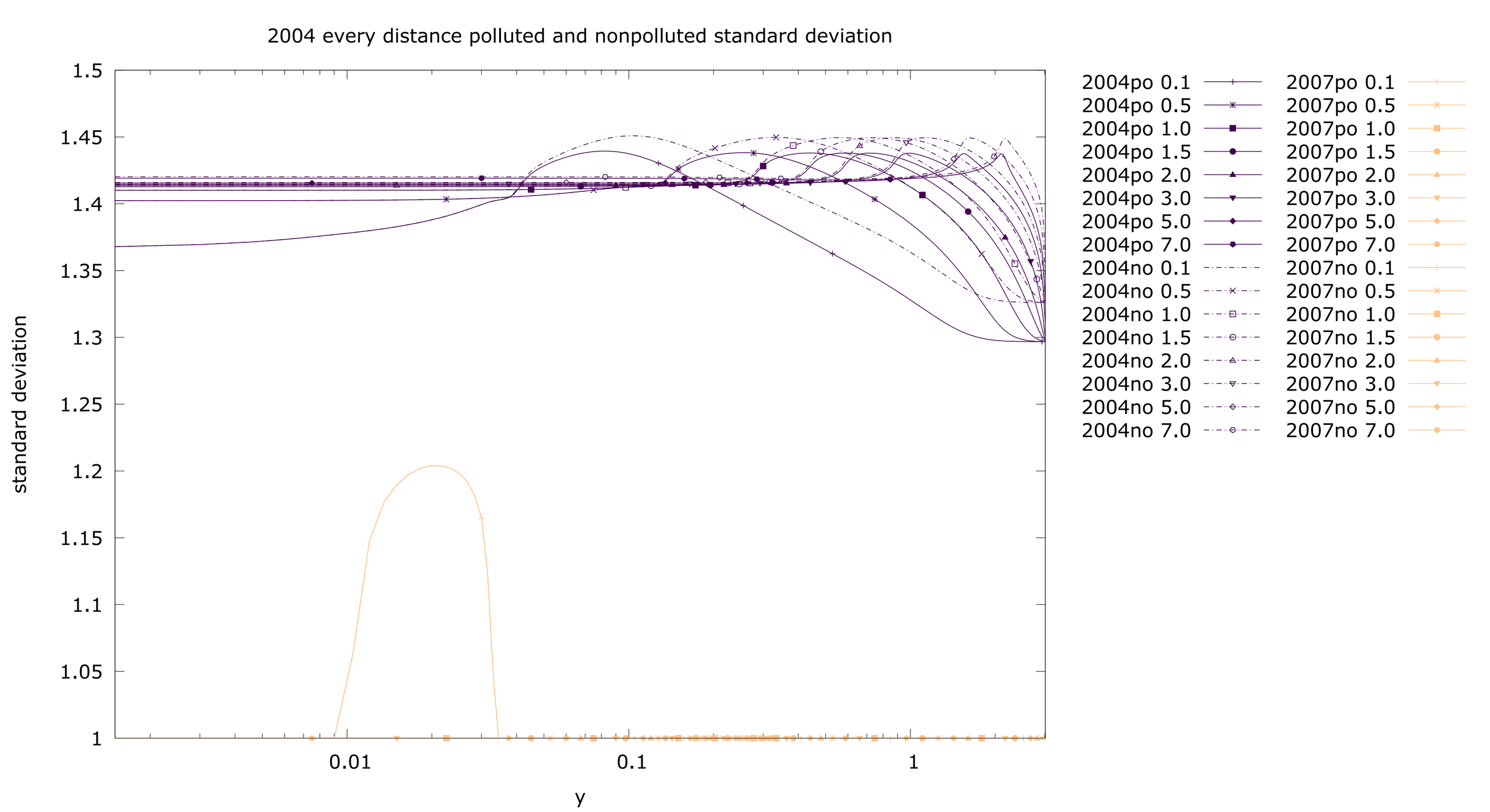
2004 every distance polluted and nonpolluted standard deviation
standard deviation
y
1.5
1.45
1.4
1.35
1.3
1.25
1.2
1.15
1.1
1.05
1
0.01
0.1
1
2004po 0.1
2004po 0.5
2004po 1.0
2004po 1.5
2004po 2.0
2004po 3.0
2004po 5.0
2004po 7.0
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2004no 0.5
2004no 1.0
2004no 1.5
2004no 2.0
2004no 3.0
2004no 5.0
2004no 7.0
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2007po 0.5
2007po 1.0
2007po 1.5
2007po 2.0
2007po 3.0
2007po 5.0
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2007no 0.5
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2007no 1.5
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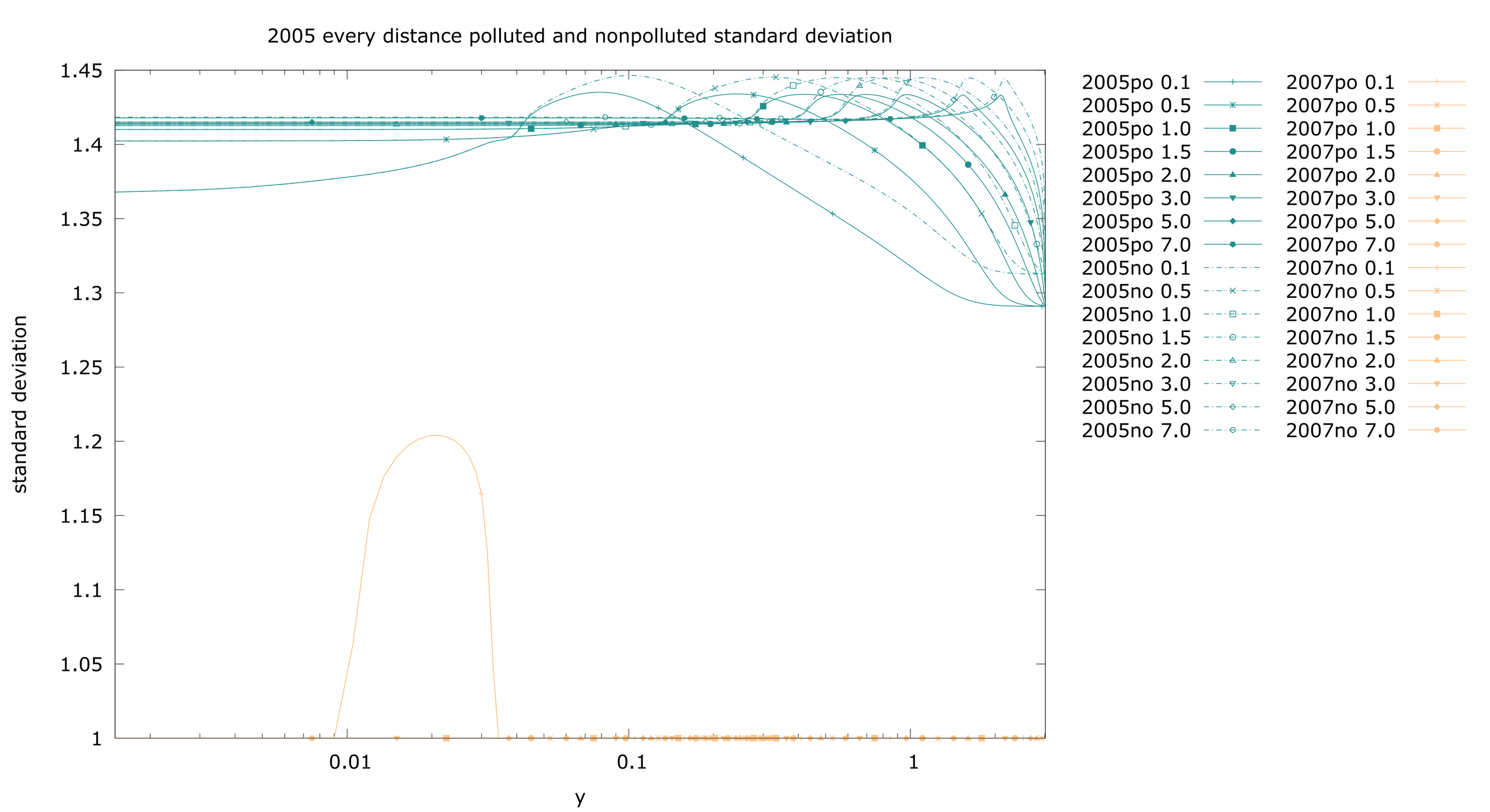
2007no 7.0


2005 every distance polluted and nonpolluted standard deviation
standard deviation
y
1.45
1.4
1.35
1.3
1.25
1.2
1.15
1.1
1.05
1
0.01
0.1
1
2005po 0.1
2005po 0.5
2005po 1.0
2005po 1.5
2005po 2.0
2005po 3.0
2005po 5.0
2005po 7.0
2005no 0.1
2005no 0.5
2005no 1.0
2005no 1.5
2005no 2.0
2005no 3.0
2005no 5.0
2005no 7.0
2007po 0.1
2007po 0.5
2007po 1.0
2007po 1.5
2007po 2.0
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2007po 5.0
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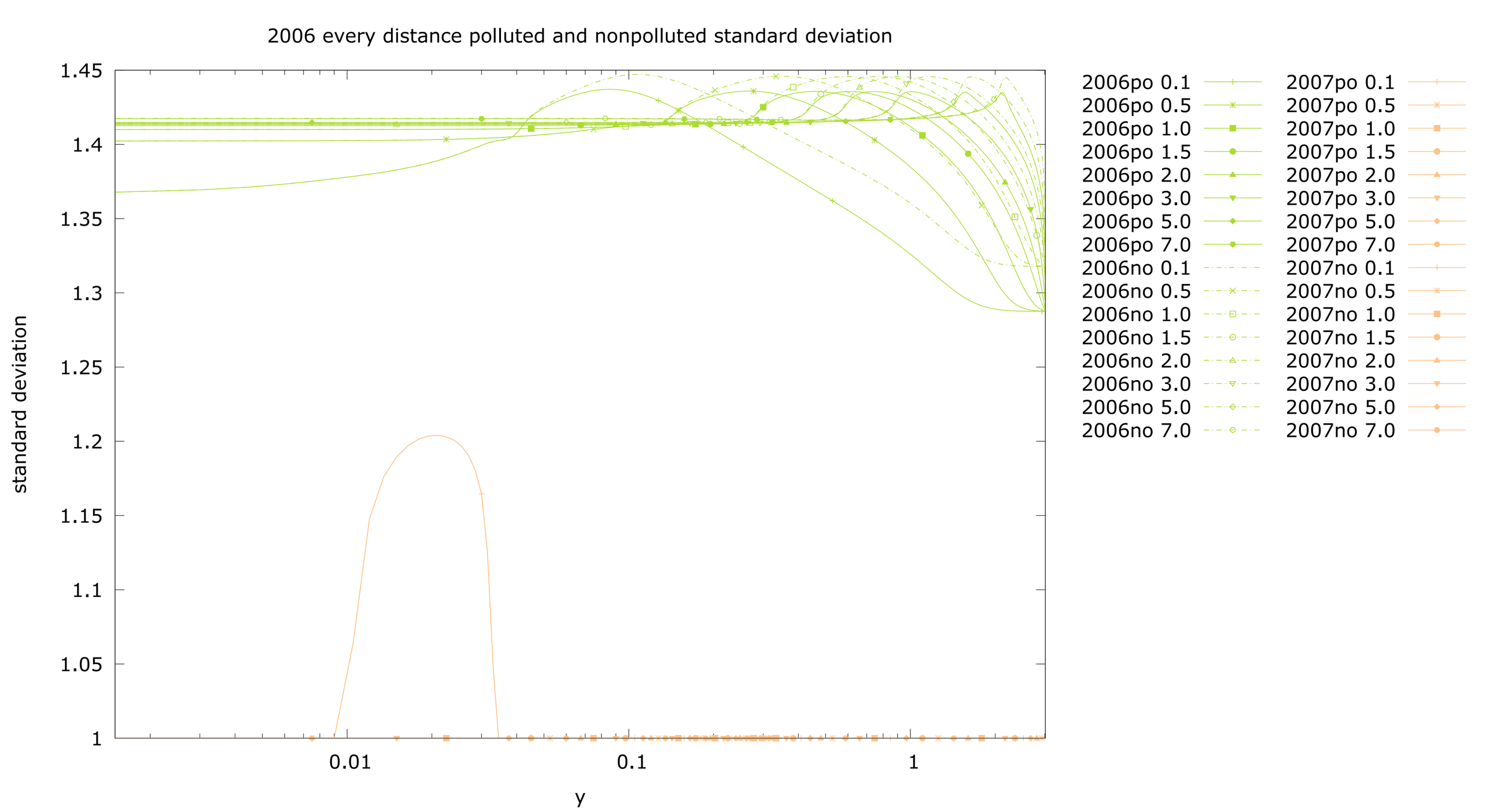
2006 every distance polluted and nonpolluted standard deviation
standard deviation
y
1.45
1.4
1.35
1.3
1.25
1.2
1.15
1.1
1.05
1
0.01
0.1
1
2006po 0.1
2006po 0.5
2006po 1.0
2006po 1.5
2006po 2.0
2006po 3.0
2006po 5.0
2006po 7.0
2006no 0.1
2006no 0.5
2006no 1.0
2006no 1.5
2006no 2.0
2006no 3.0
2006no 5.0
2006no 7.0
2007po 0.1
2007po 0.5
2007po 1.0
2007po 1.5
2007po 2.0
2007po 3.0
2007po 5.0
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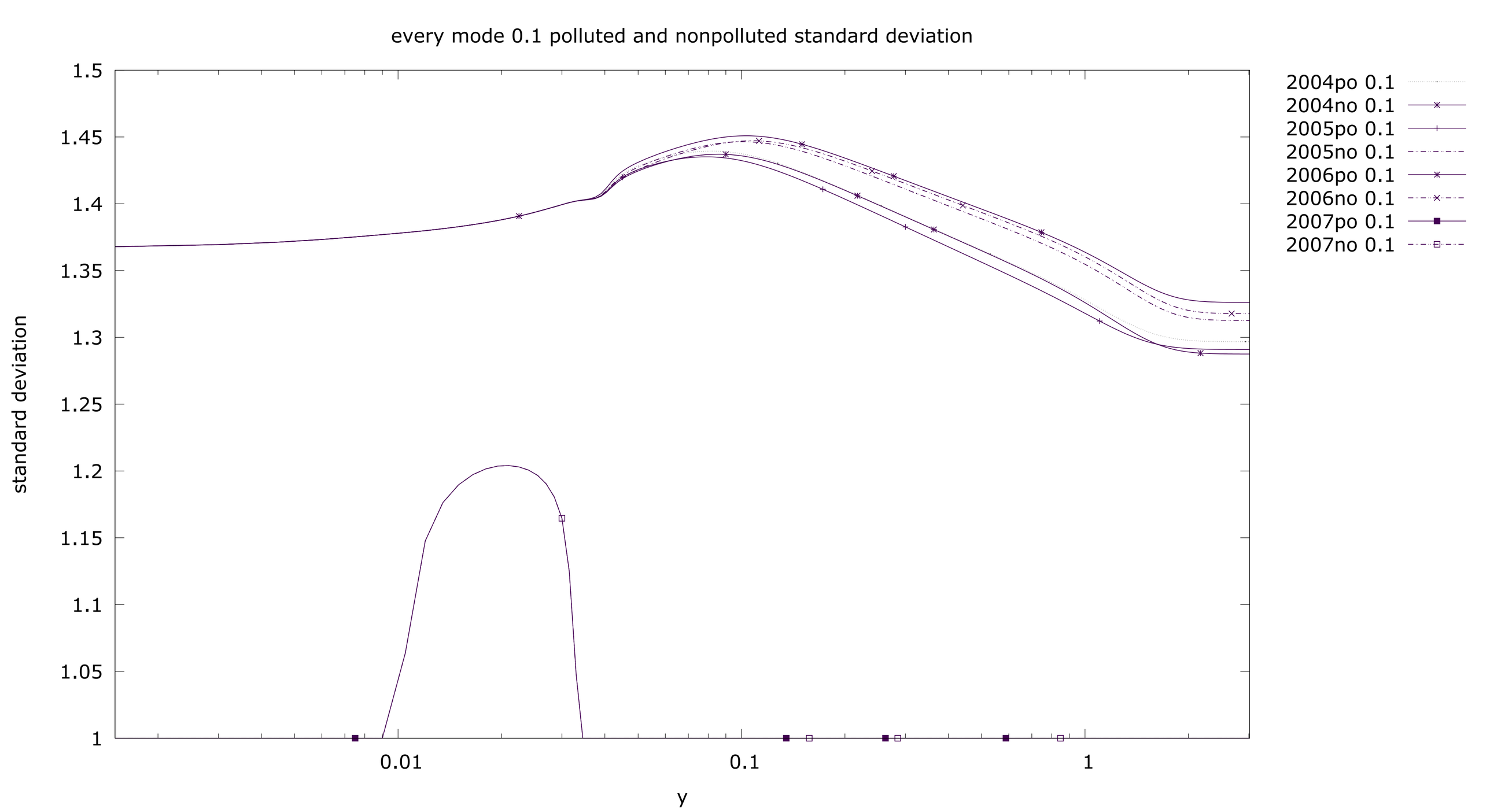
every mode 0.1 polluted and nonpolluted standard deviation
standard deviation
y
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1.45
1.4
1.35
1.3
1.25
1.2
1.15
1.1
1.05
1
0.01
0.1
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2004no 0.1
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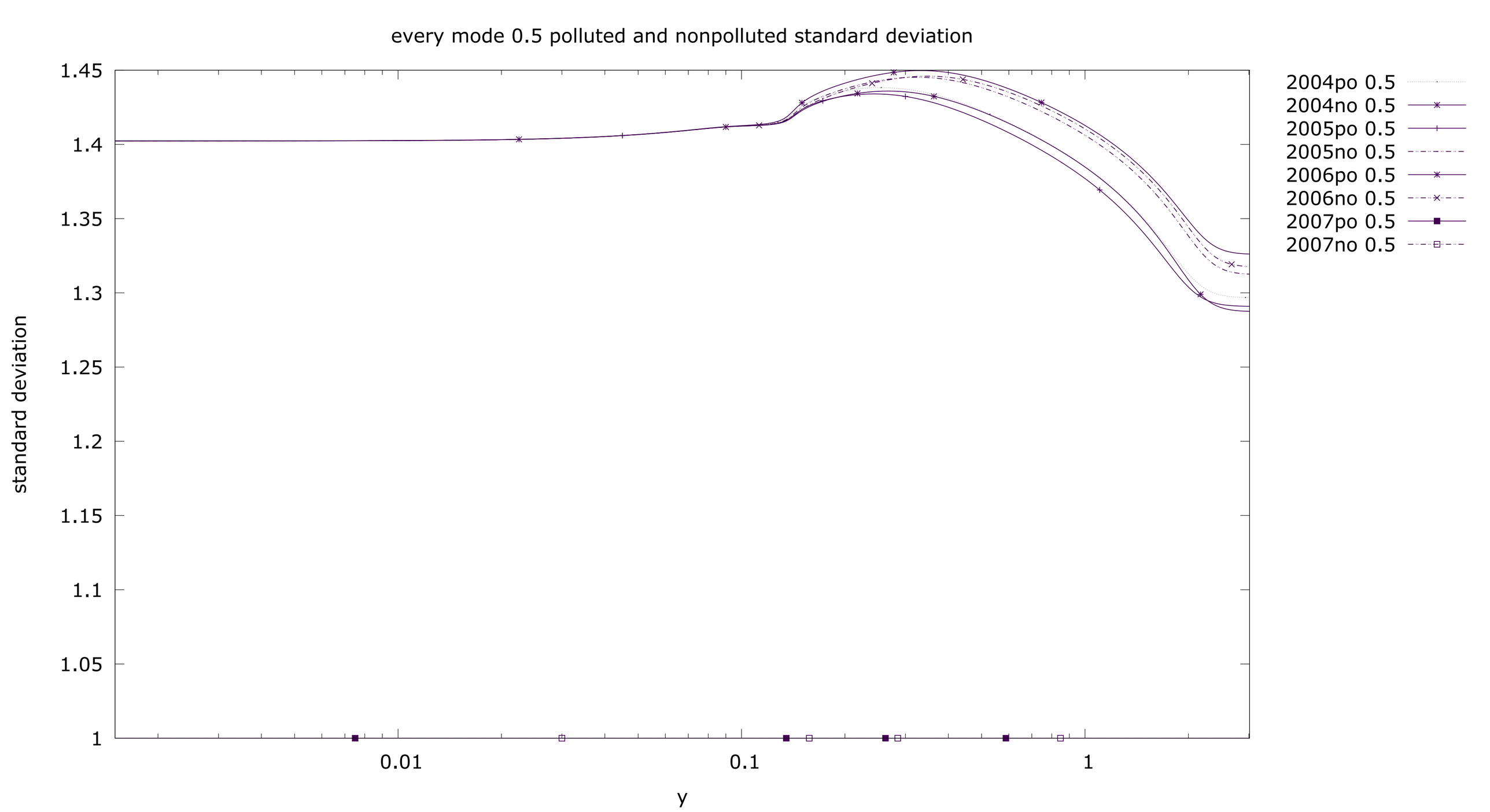
every mode 0.5 polluted and nonpolluted standard deviation
standard deviation
y
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1.35
1.3
1.25
1.2
1.15
1.1
1.05
1
0.01
0.1
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2004no 0.5
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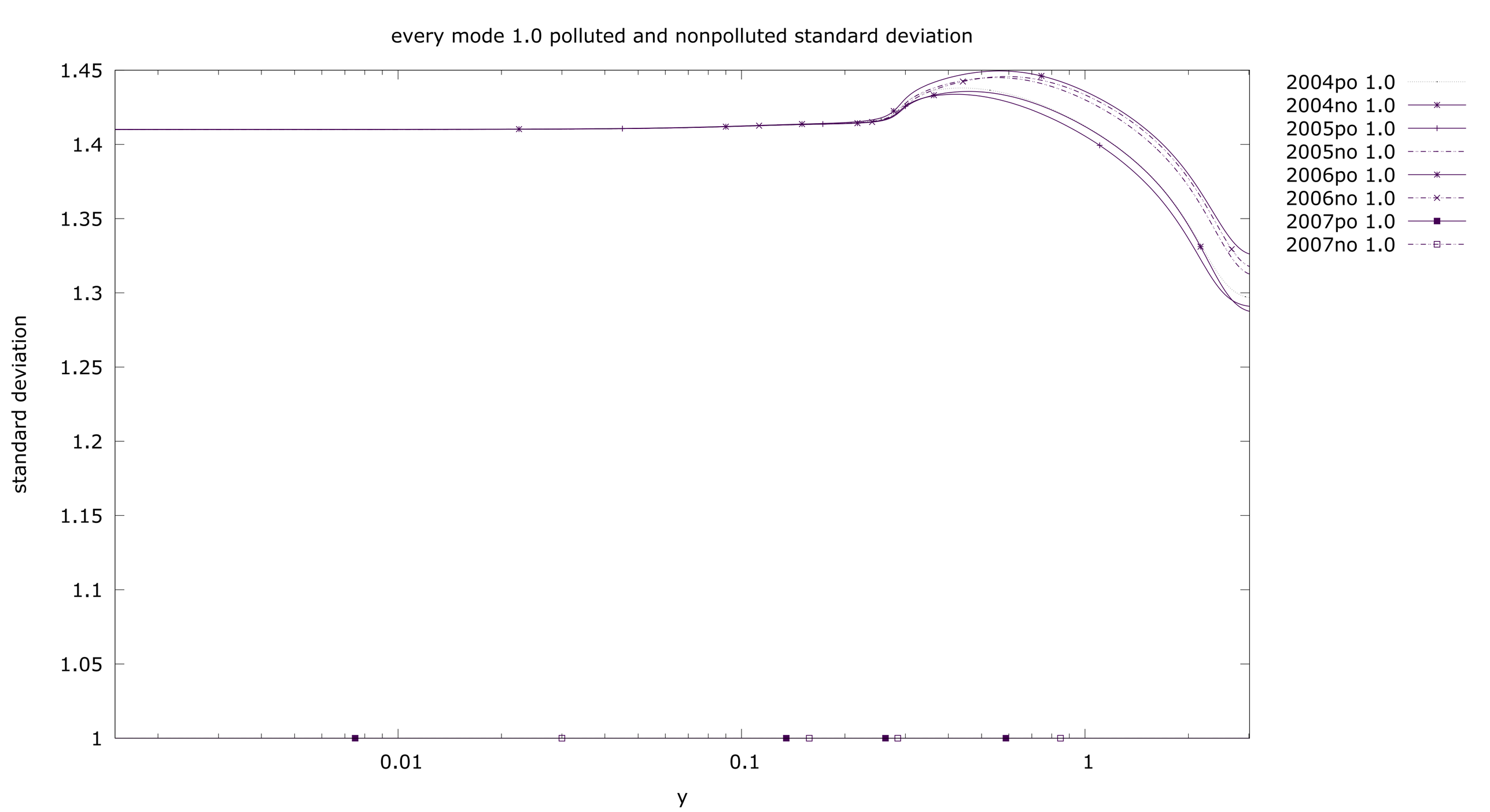
2007no 0.5


every mode 1.0 polluted and nonpolluted standard deviation
standard deviation
y
1.45
1.4
1.35
1.3
1.25
1.2
1.15
1.1
1.05
1
0.01
0.1
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2004no 1.0
2005po 1.0
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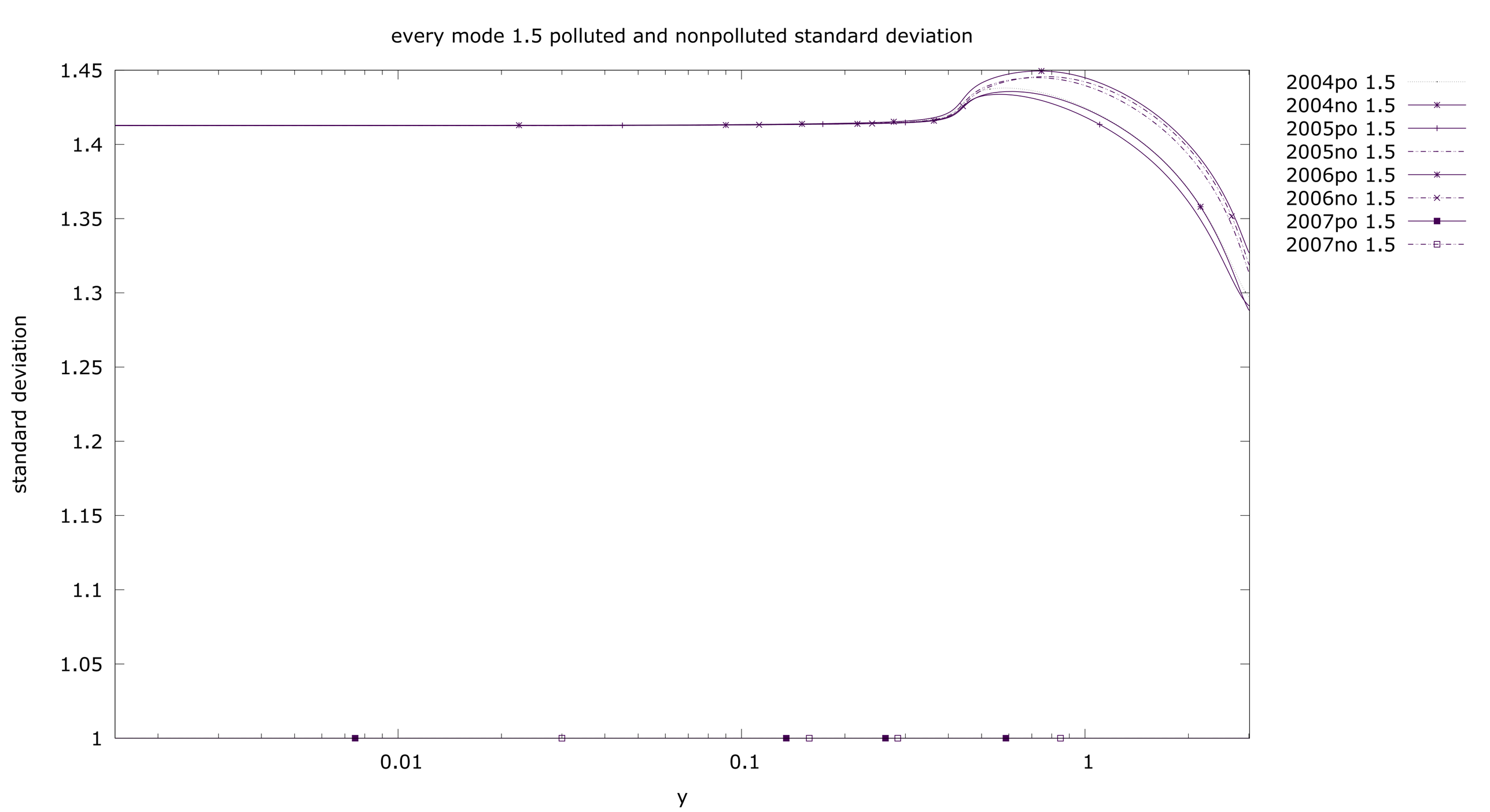
every mode 1.5 polluted and nonpolluted standard deviation
standard deviation
y
1.45
1.4
1.35
1.3
1.25
1.2
1.15
1.1
1.05
1
0.01
0.1
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2004no 1.5
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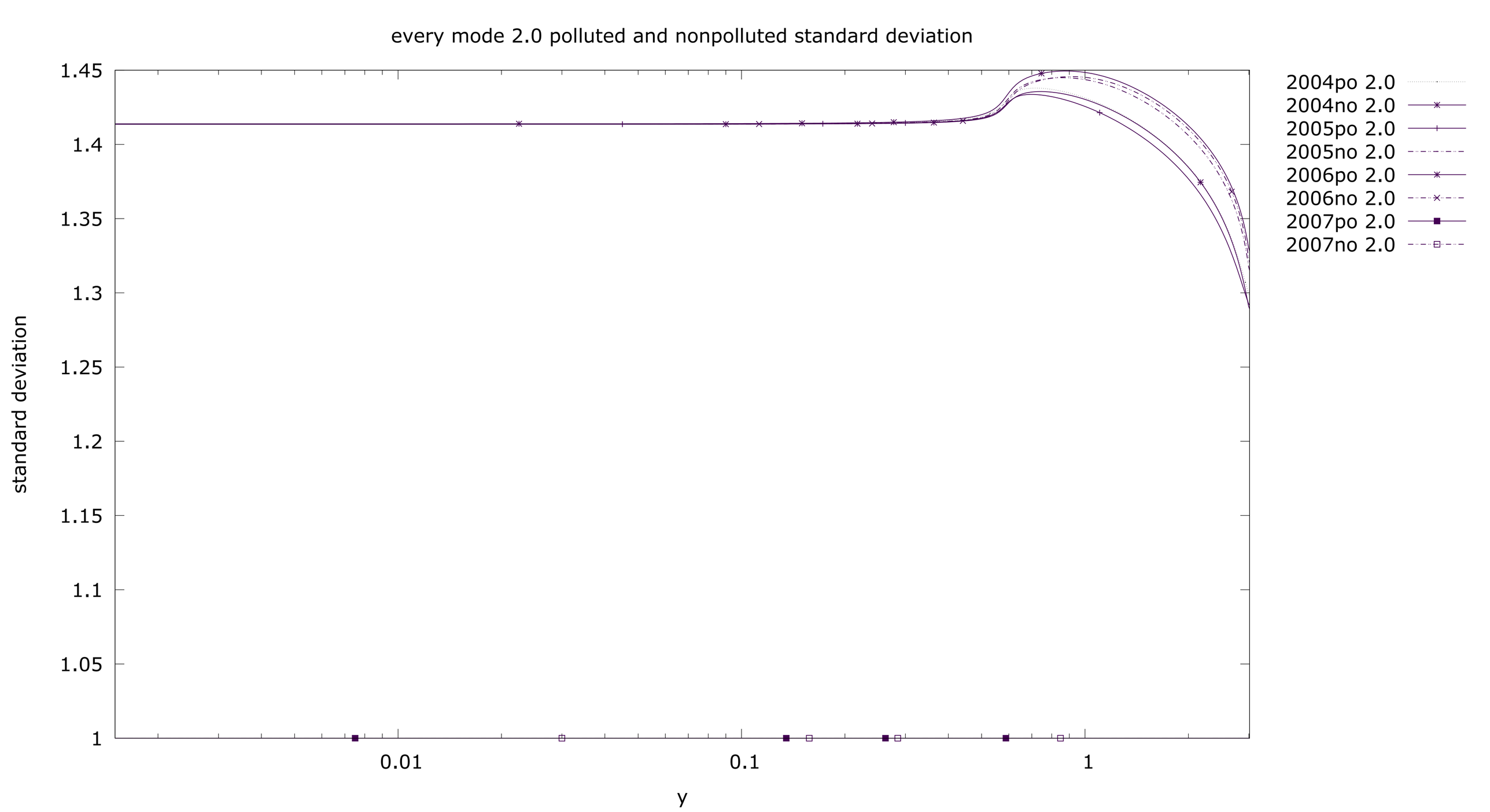
every mode 2.0 polluted and nonpolluted standard deviation
standard deviation
y
1.45
1.4
1.35
1.3
1.25
1.2
1.15
1.1
1.05
1
0.01
0.1
1
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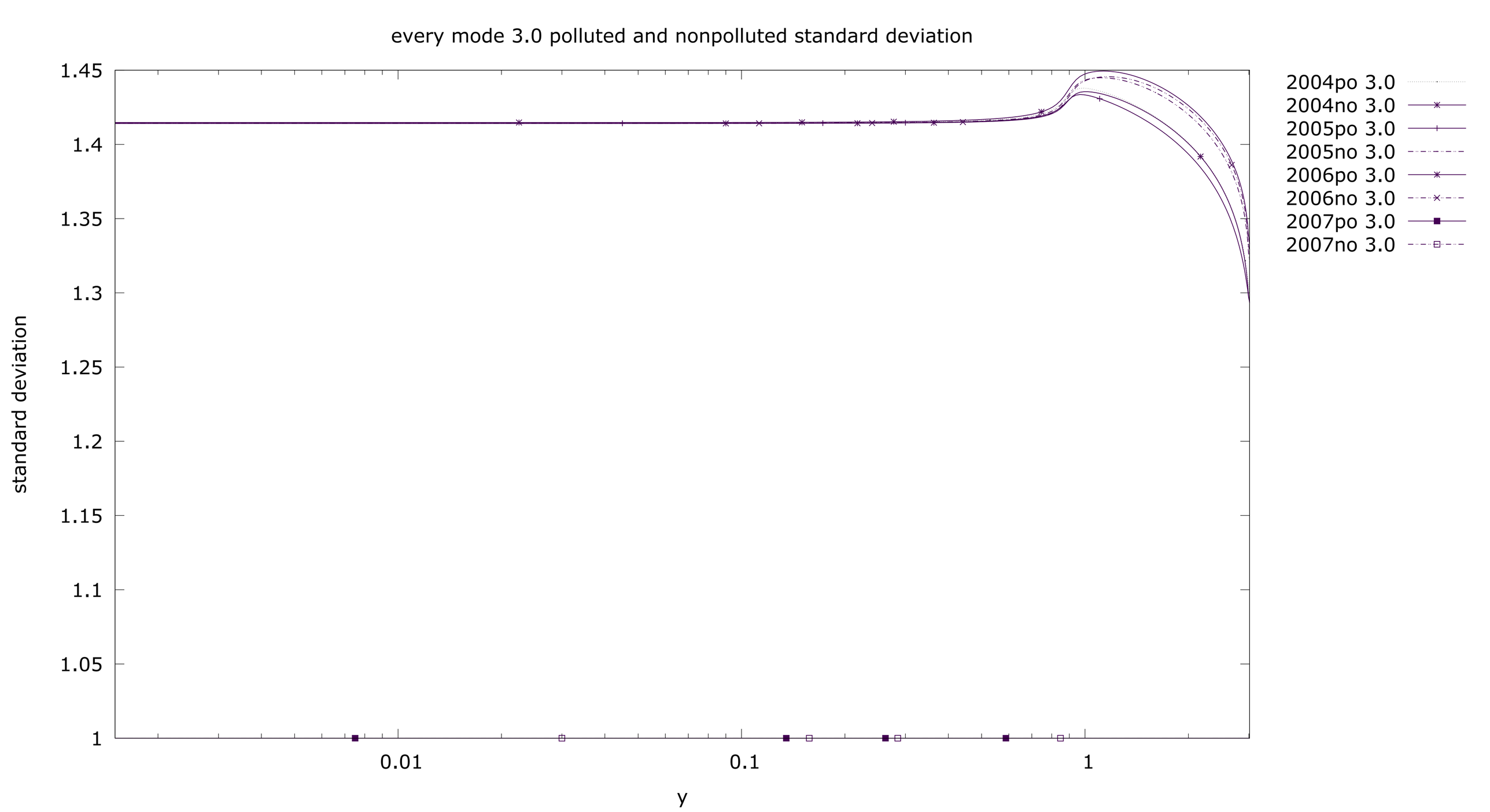
every mode 3.0 polluted and nonpolluted standard deviation
standard deviation
y
1.45
1.4
1.35
1.3
1.25
1.2
1.15
1.1
1.05
1
0.01
0.1
1
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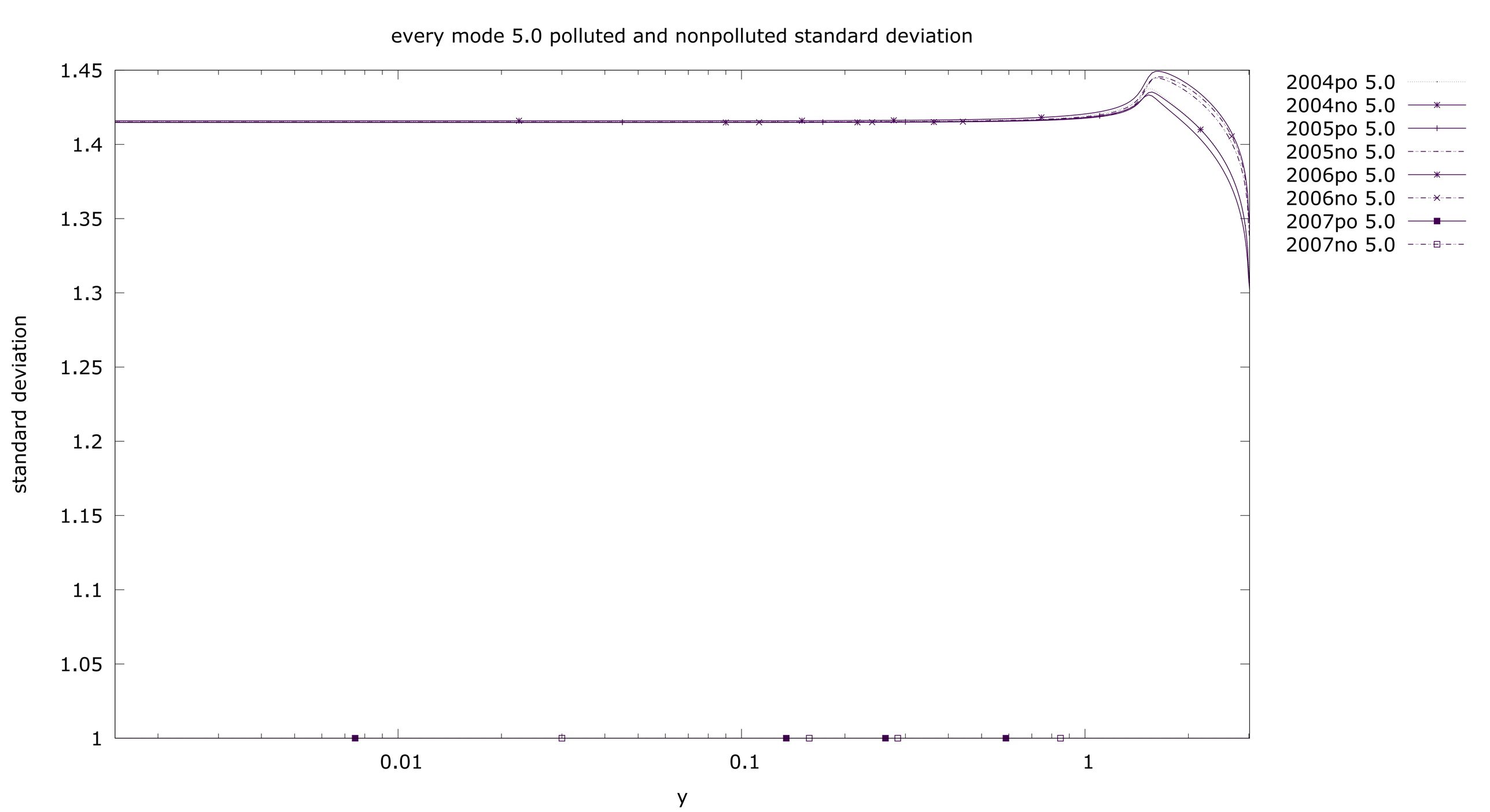
every mode 5.0 polluted and nonpolluted standard deviation
standard deviation
y
1.45
1.4
1.35
1.3
1.25
1.2
1.15
1.1
1.05
1
0.01
0.1
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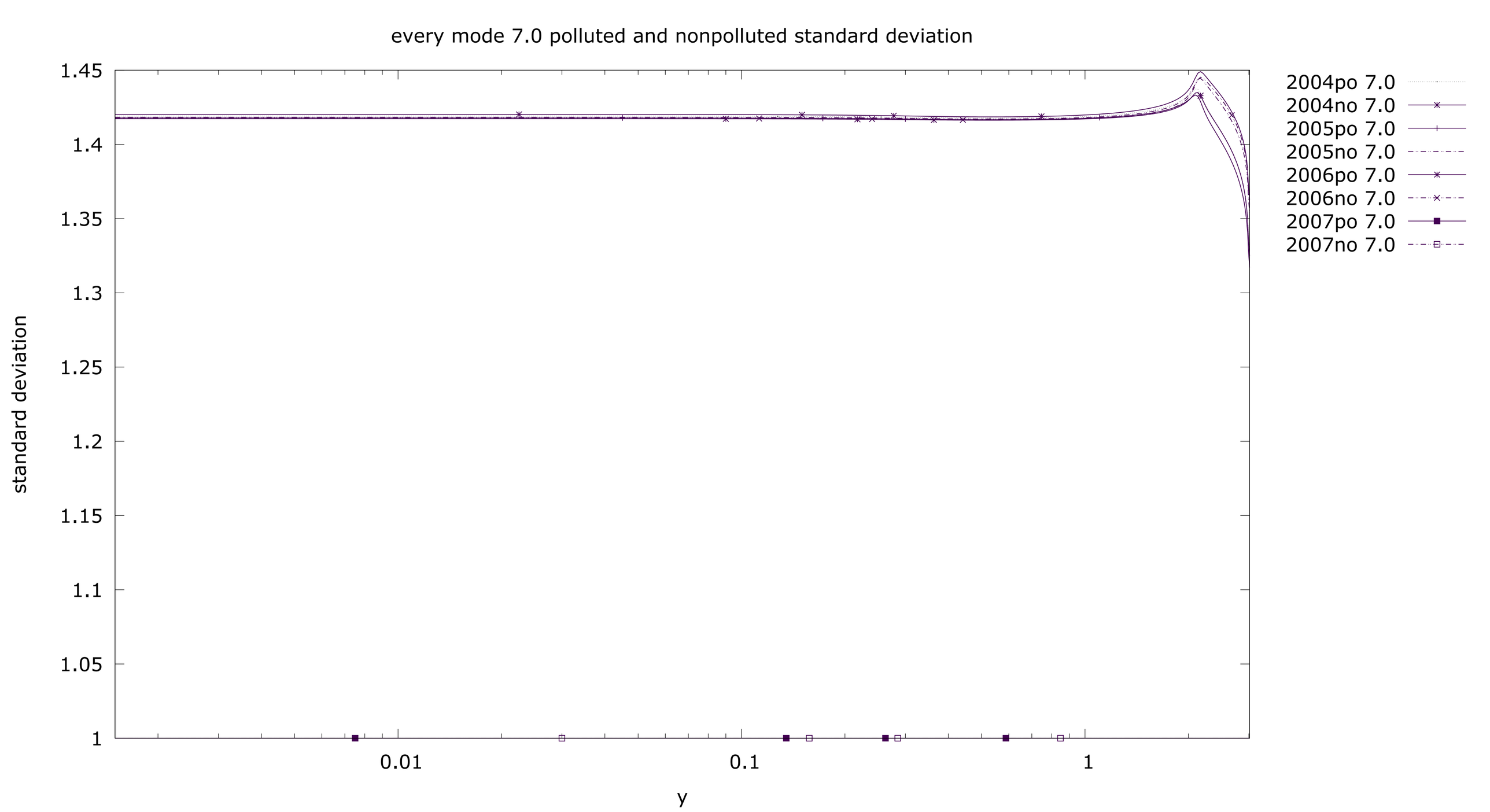
2007no 5.0


every mode 7.0 polluted and nonpolluted standard deviation
standard deviation
y
1.45
1.4
1.35
1.3
1.25
1.2
1.15
1.1
1.05
1
0.01
0.1
1
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2004no 7.0
2005po 7.0
2005no 7.0
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2006no 7.0
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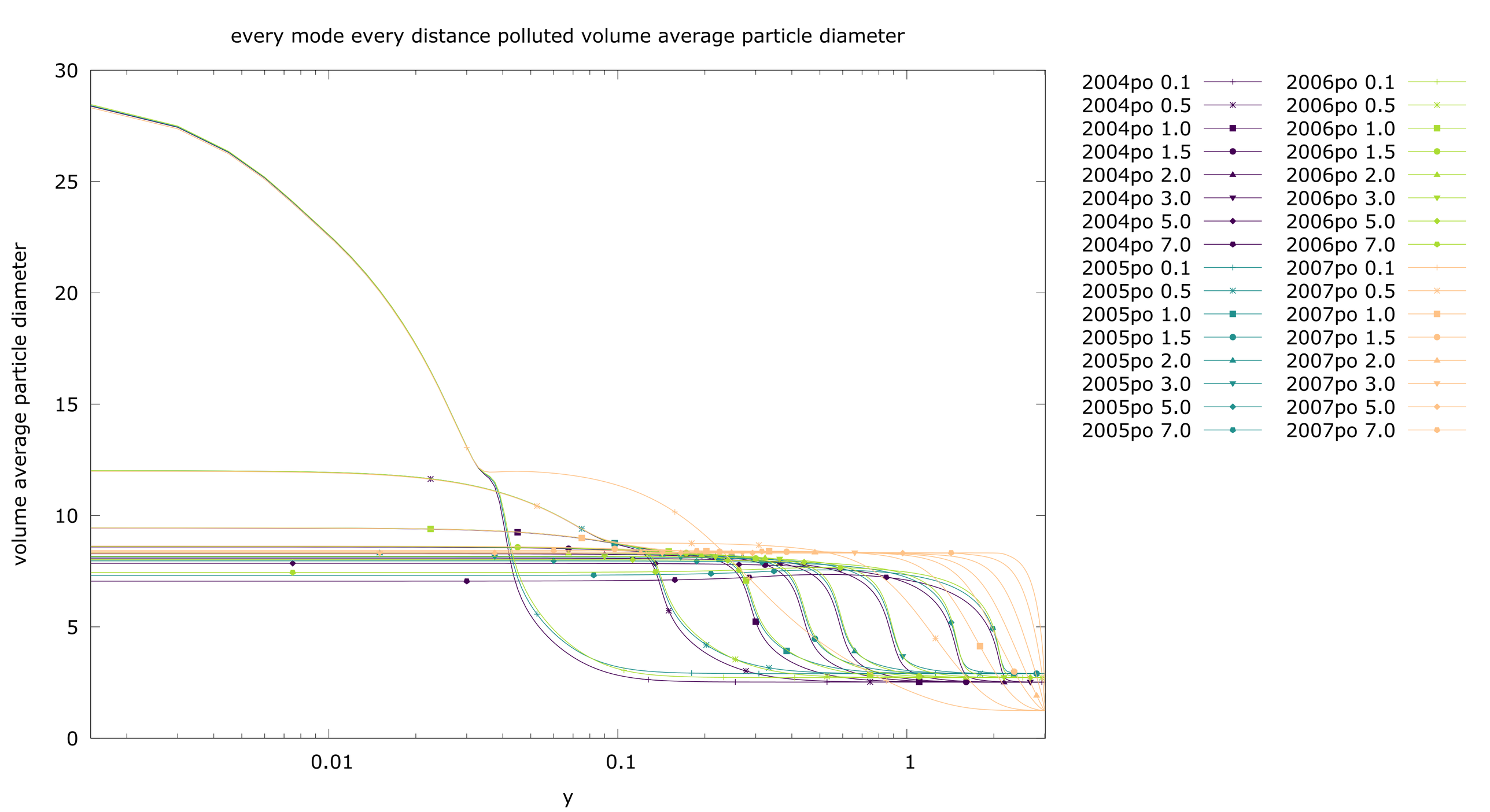
2007no 7.0


every mode every distance polluted volume average particle diameter
volume average particle diameter
y
30
25
20
15
10
5
0
0.01
0.1
1
2004po 0.1
2004po 0.5
2004po 1.0
2004po 1.5
2004po 2.0
2004po 3.0
2004po 5.0
2004po 7.0
2005po 0.1
2005po 0.5
2005po 1.0
2005po 1.5
2005po 2.0
2005po 3.0
2005po 5.0
2005po 7.0
2006po 0.1
2006po 0.5
2006po 1.0
2006po 1.5
2006po 2.0
2006po 3.0
2006po 5.0
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2007po 0.5
2007po 1.0
2007po 1.5
2007po 2.0
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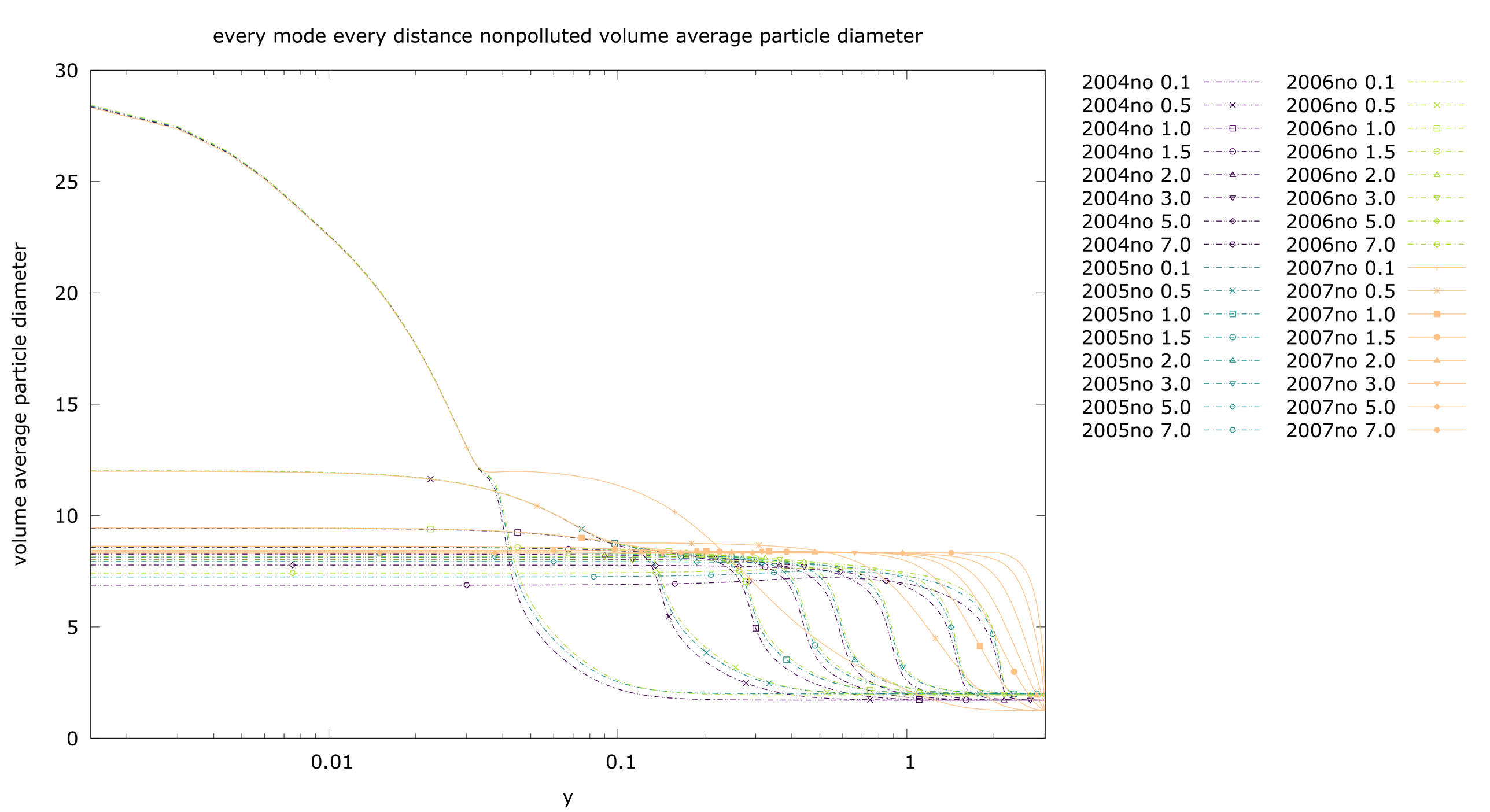
2007po 7.0


every mode every distance nonpolluted volume average particle diameter
volume average particle diameter
y
0
5
10
15
20
25
30
0.01
0.1
1
2004no 0.1
2004no 0.5
2004no 1.0
2004no 1.5
2004no 2.0
2004no 3.0
2004no 5.0
2004no 7.0
2005no 0.1
2005no 0.5
2005no 1.0
2005no 1.5
2005no 2.0
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2006no 0.5
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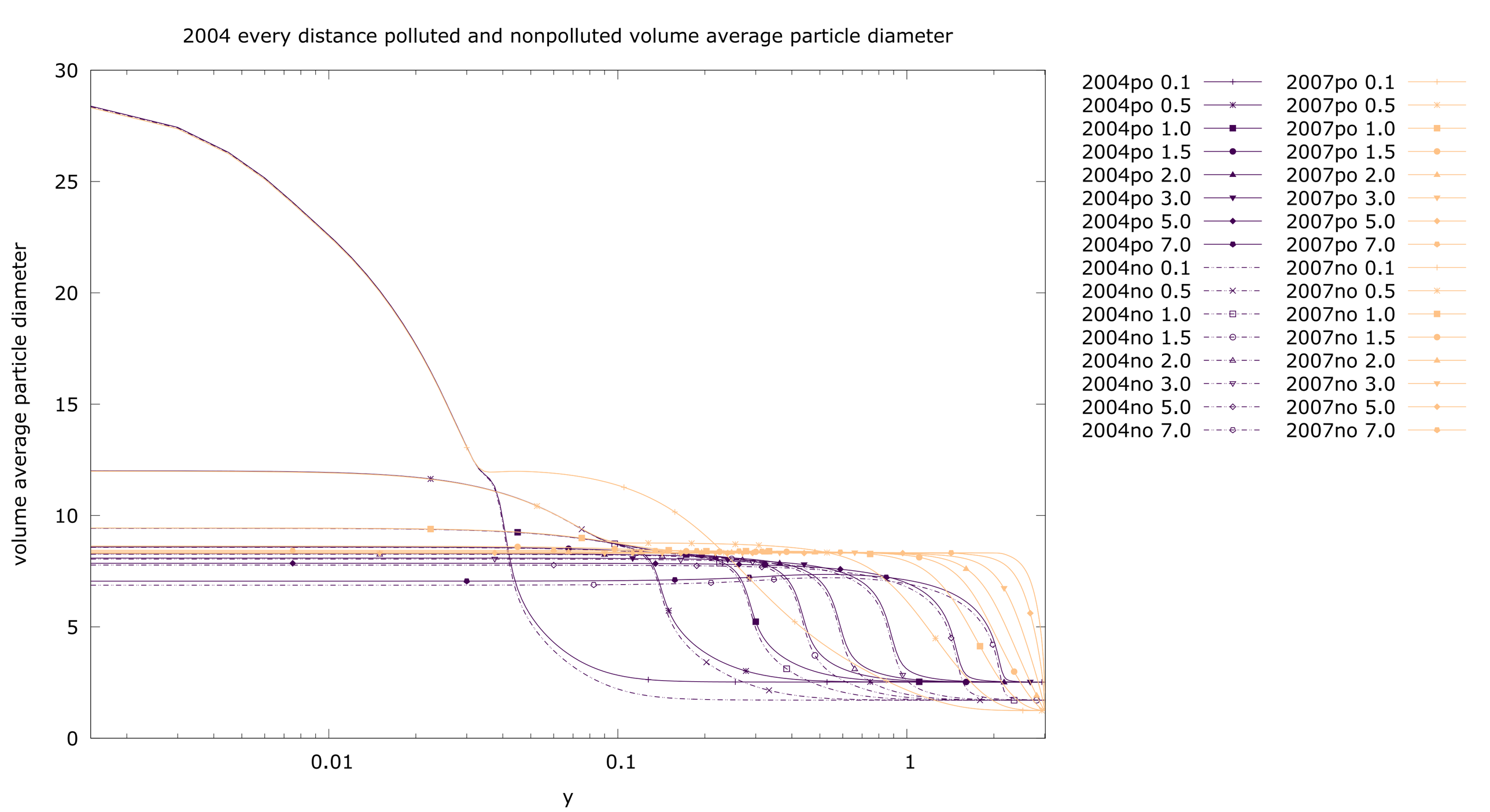
2007no 7.0


2004 every distance polluted and nonpolluted volume average particle diameter
volume average particle diameter
y
0
5
10
15
20
25
30
0.01
0.1
1
2004po 0.1
2004po 0.5
2004po 1.0
2004po 1.5
2004po 2.0
2004po 3.0
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2004po 7.0
2004no 0.1
2004no 0.5
2004no 1.0
2004no 1.5
2004no 2.0
2004no 3.0
2004no 5.0
2004no 7.0
2007po 0.1
2007po 0.5
2007po 1.0
2007po 1.5
2007po 2.0
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2007po 5.0
2007po 7.0
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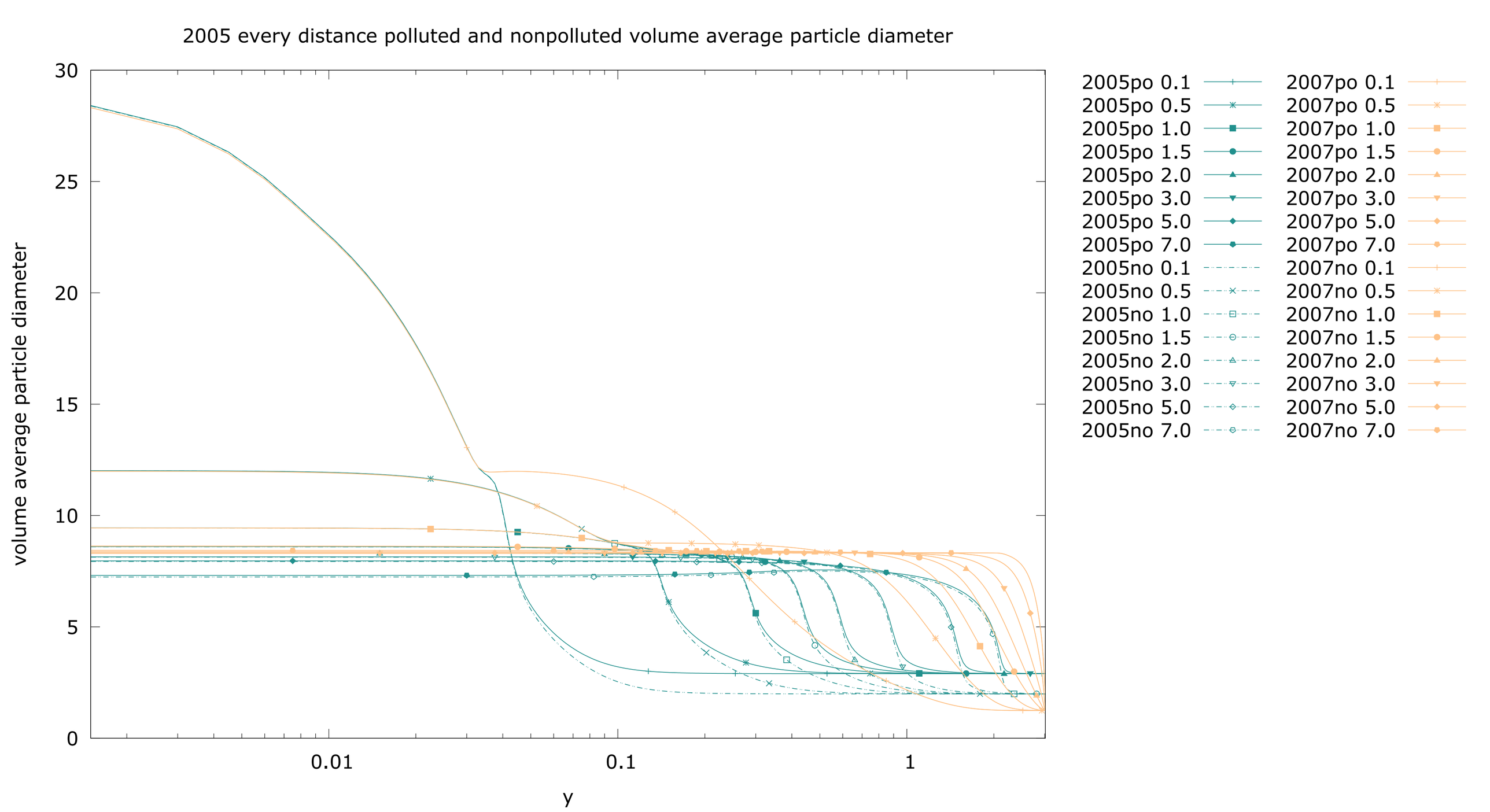
2007no 7.0


2005 every distance polluted and nonpolluted volume average particle diameter
volume average particle diameter
y
0
5
10
15
20
25
30
0.01
0.1
1
2005po 0.1
2005po 0.5
2005po 1.0
2005po 1.5
2005po 2.0
2005po 3.0
2005po 5.0
2005po 7.0
2005no 0.1
2005no 0.5
2005no 1.0
2005no 1.5
2005no 2.0
2005no 3.0
2005no 5.0
2005no 7.0
2007po 0.1
2007po 0.5
2007po 1.0
2007po 1.5
2007po 2.0
2007po 3.0
2007po 5.0
2007po 7.0
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2007no 0.5
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2007no 1.5
2007no 2.0
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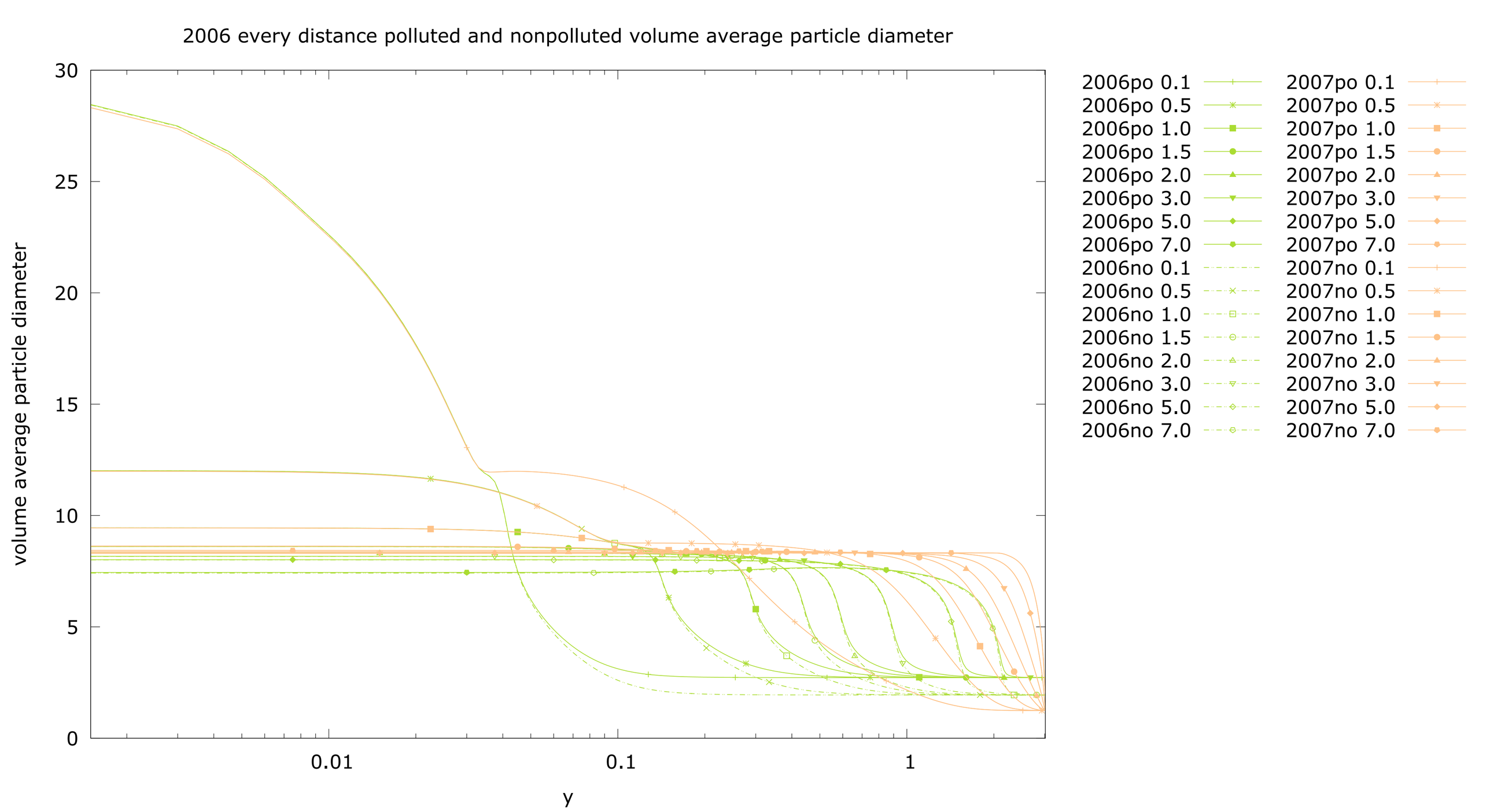
2007no 7.0


2006 every distance polluted and nonpolluted volume average particle diameter
volume average particle diameter
y
0
5
10
15
20
25
30
0.01
0.1
1
2006po 0.1
2006po 0.5
2006po 1.0
2006po 1.5
2006po 2.0
2006po 3.0
2006po 5.0
2006po 7.0
2006no 0.1
2006no 0.5
2006no 1.0
2006no 1.5
2006no 2.0
2006no 3.0
2006no 5.0
2006no 7.0
2007po 0.1
2007po 0.5
2007po 1.0
2007po 1.5
2007po 2.0
2007po 3.0
2007po 5.0
2007po 7.0
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2007no 0.5
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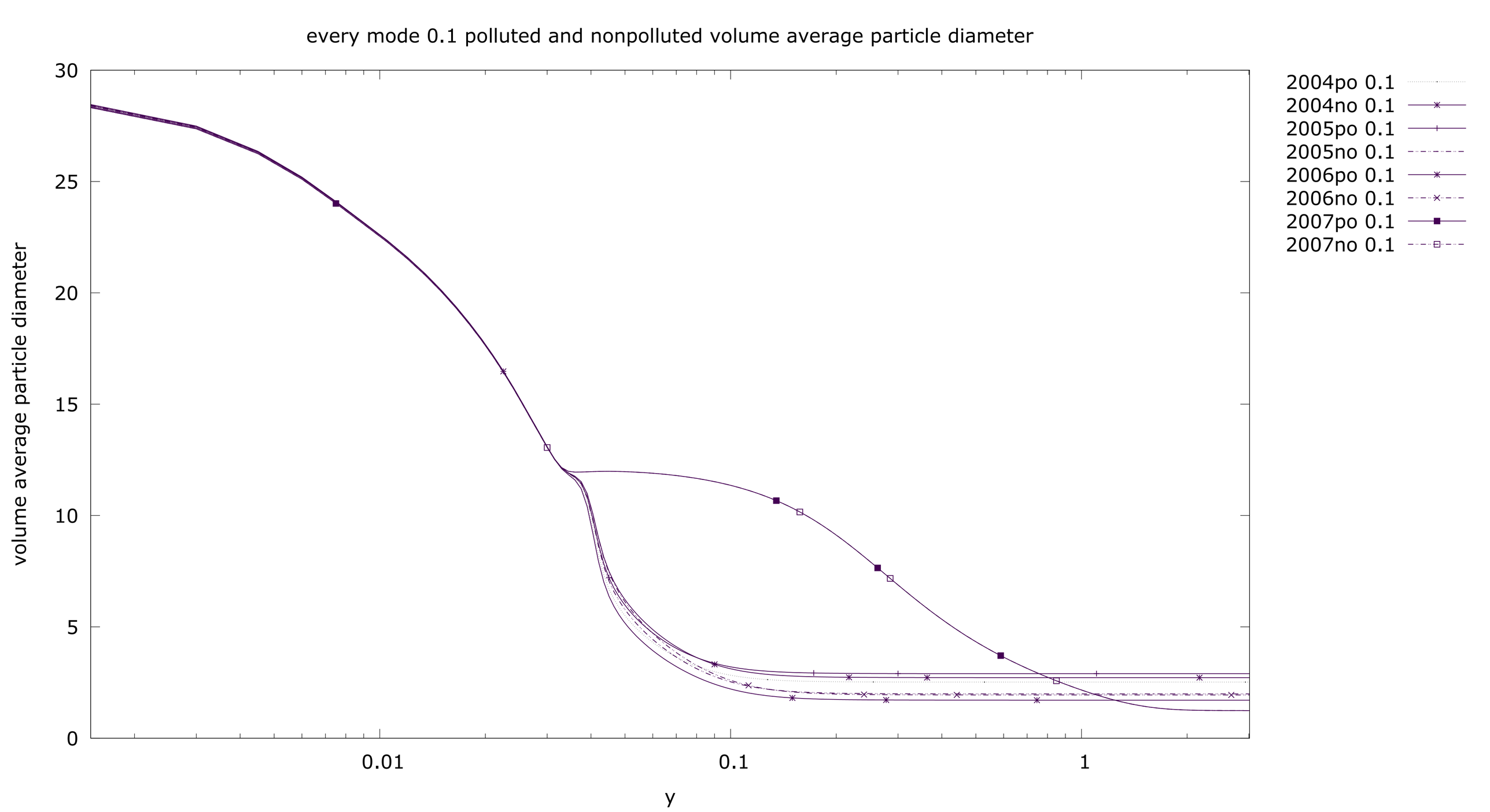
2007no 7.0


every mode 0.1 polluted and nonpolluted volume average particle diameter
volume average particle diameter
y
30
25
20
15
10
5
0
0.01
0.1
1
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2004no 0.1
2005po 0.1
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2006po 0.1
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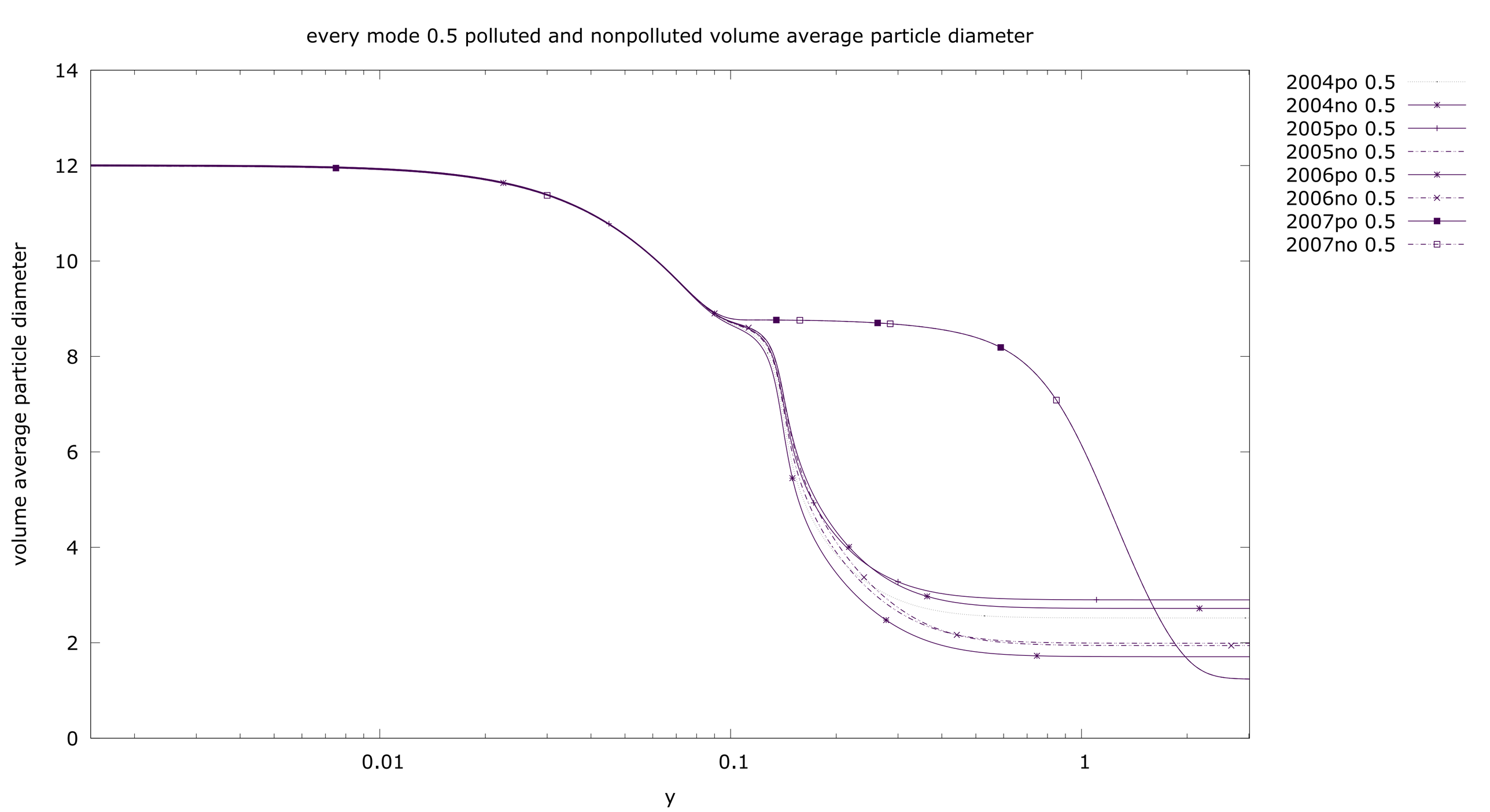
2007no 0.1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volume average particle diameter
y
0
2
4
6
8
10
12
14
0.01
0.1
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2004no 0.5
2005po 0.5
2005no 0.5
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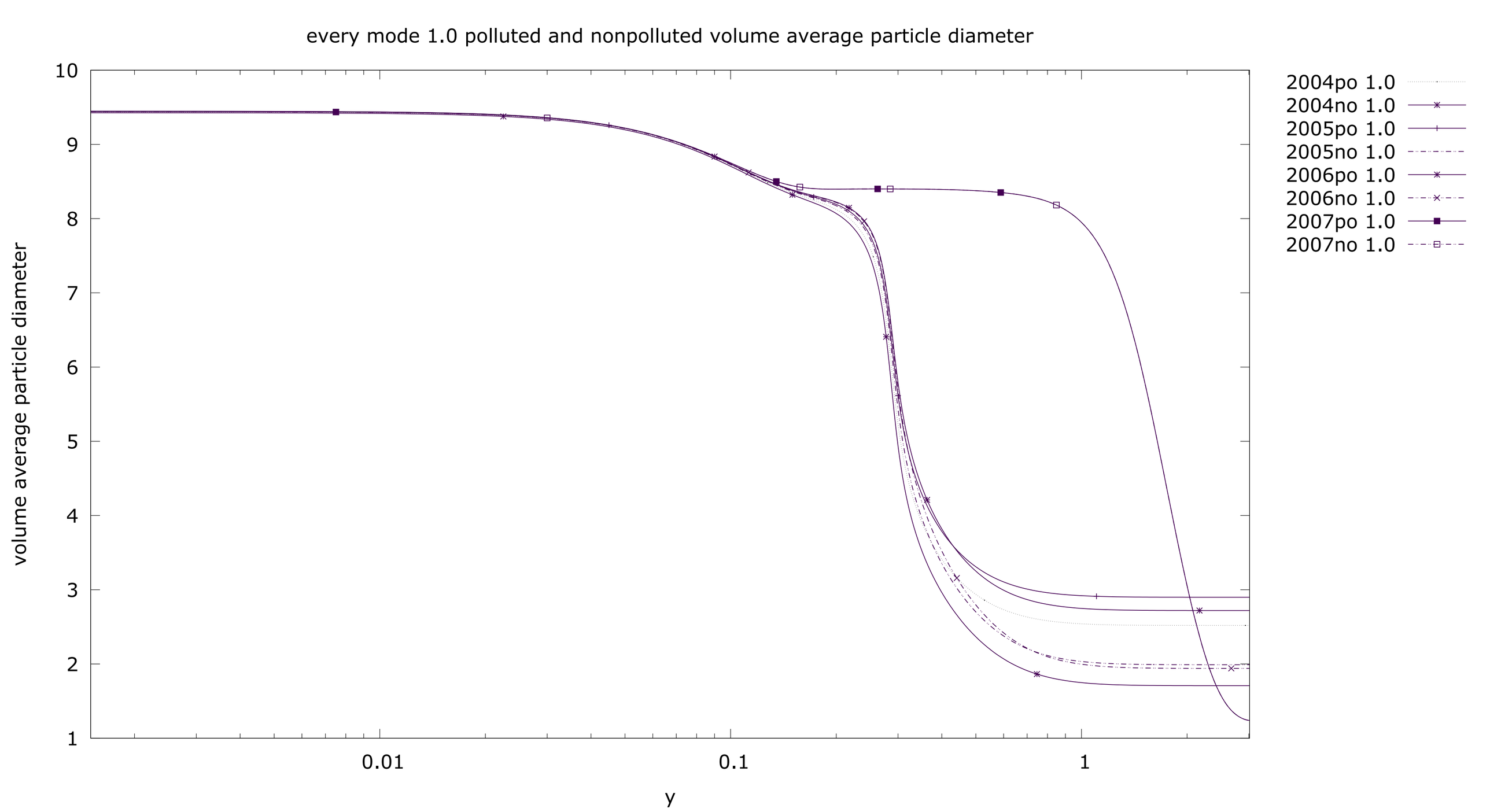
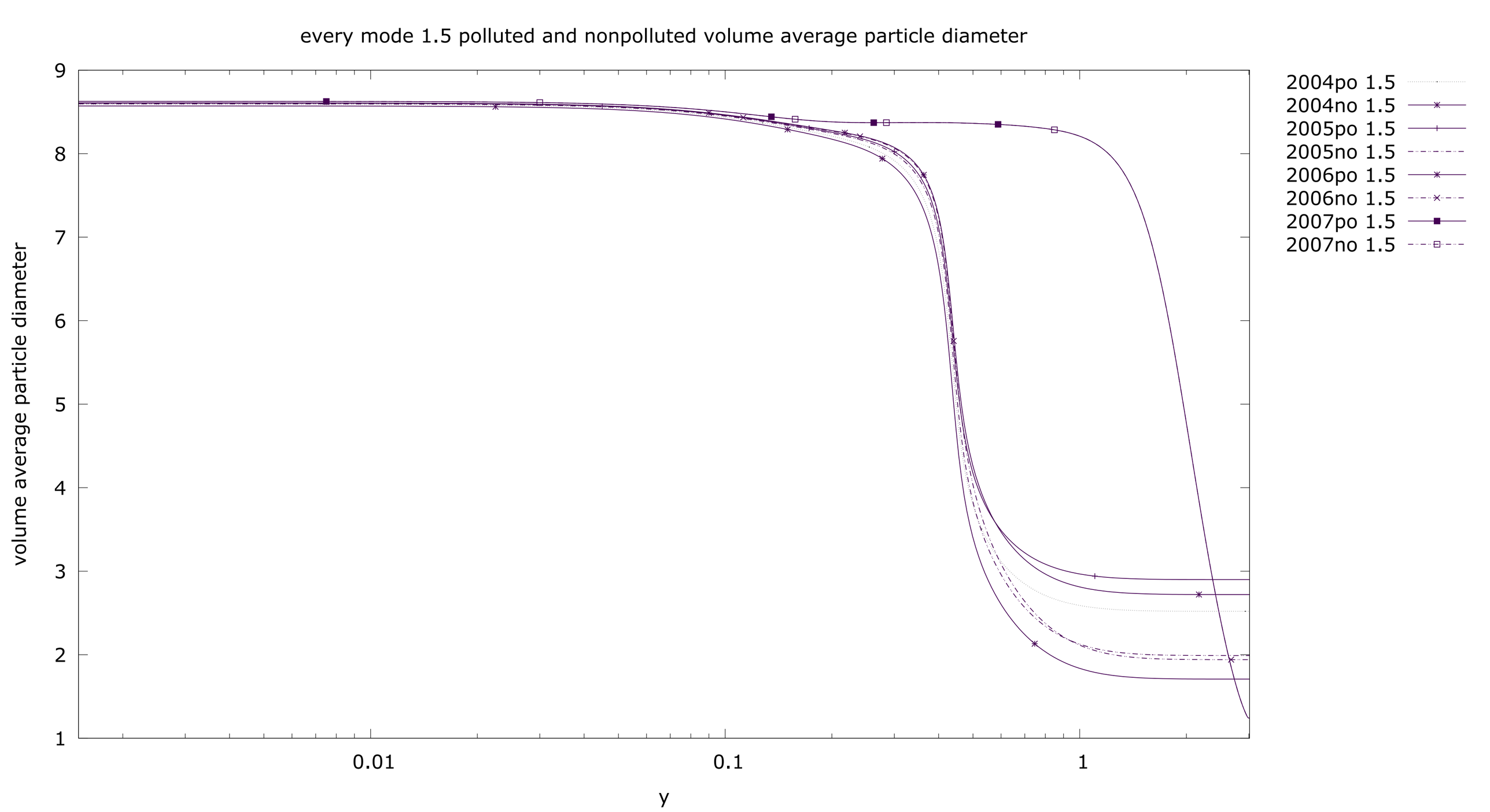
2007no 0.5


every mode 1.0 polluted and nonpolluted volume average particle diameter
volume average particle diameter
y
10
9
8
7
6
5
4
3
2
1
0.01
0.1
1
2004po 1.0
2004no 1.0
2005po 1.0
2005no 1.0
2006po 1.0
2006no 1.0
2007po 1.0
2007no 1.0


every mode 1.5 polluted and nonpolluted volume average particle diameter
volume average particle diameter
y
9
8
7
6
5
4
3
2
1
0.01
0.1
1
2004po 1.5
2004no 1.5
2005po 1.5
2005no 1.5
2006po 1.5
2006no 1.5
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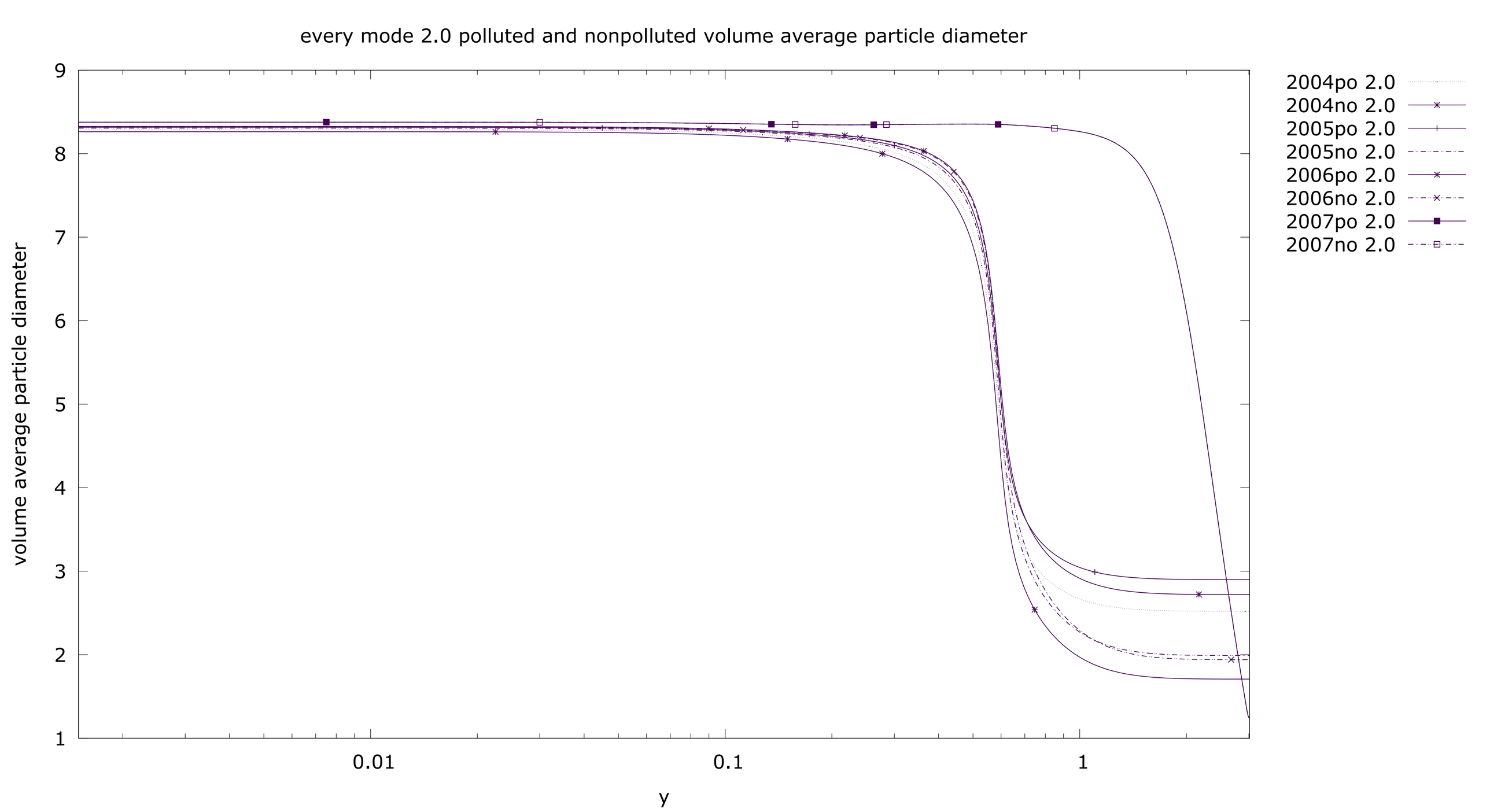
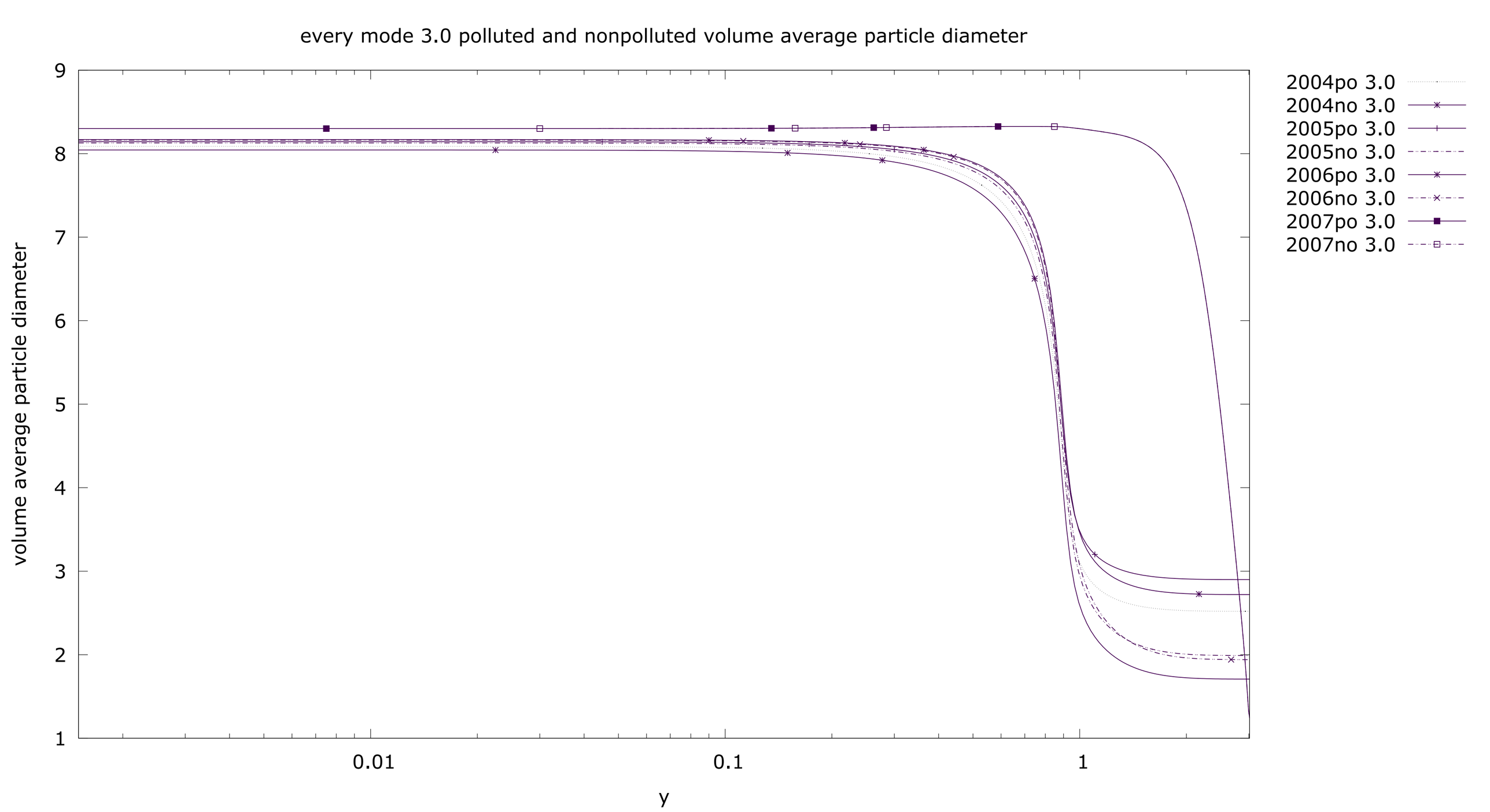
2007no 1.5


every mode 2.0 polluted and nonpolluted volume average particle diameter
volume average particle diameter
y
9
8
7
6
5
4
3
2
1
0.01
0.1
1
2004po 2.0
2004no 2.0
2005po 2.0
2005no 2.0
2006po 2.0
2006no 2.0
2007po 2.0
2007no 2.0


every mode 3.0 polluted and nonpolluted volume average particle diameter
volume average particle diameter
y
9
8
7
6
5
4
3
2
1
0.01
0.1
1
2004po 3.0
2004no 3.0
2005po 3.0
2005no 3.0
2006po 3.0
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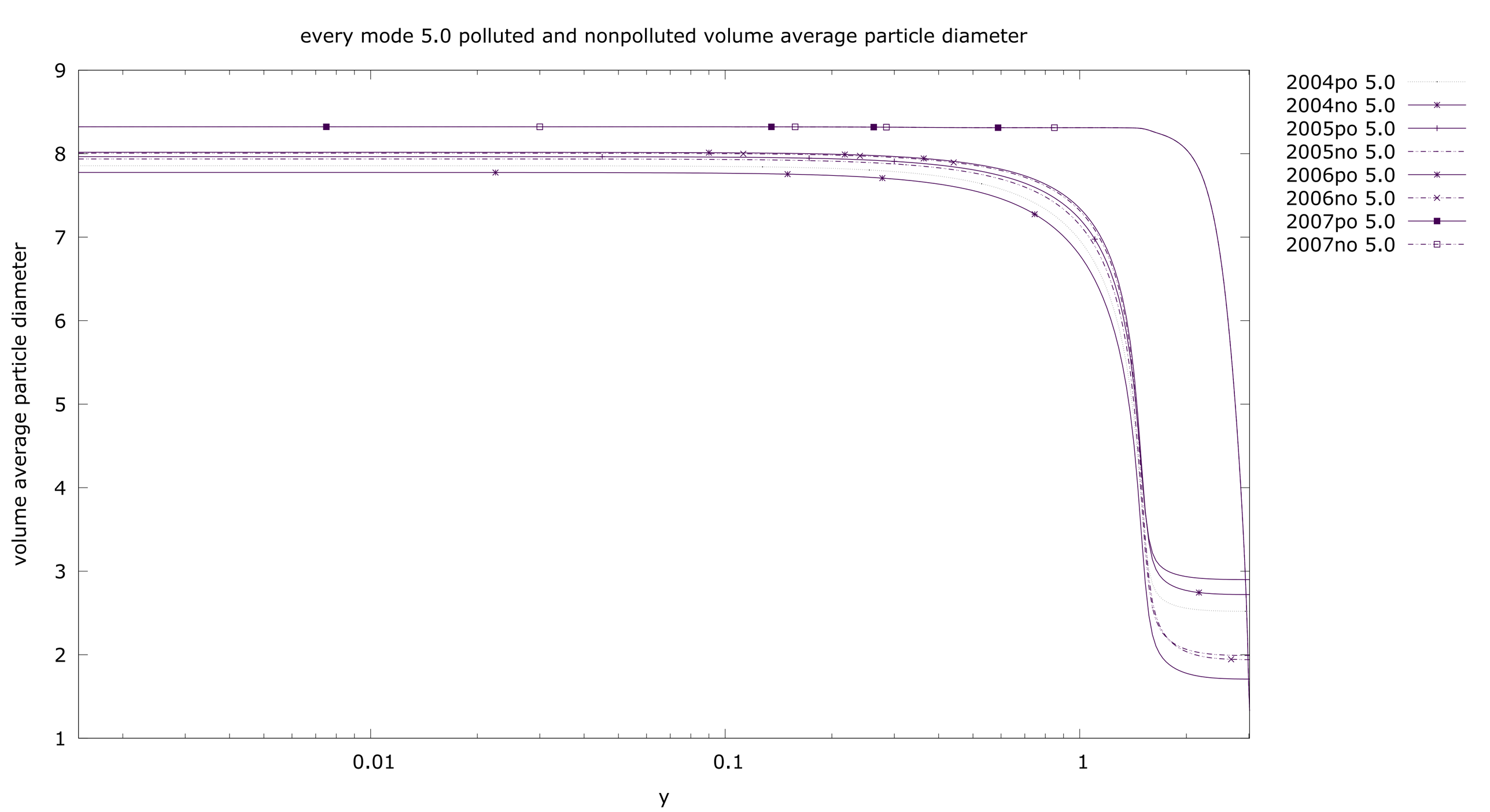
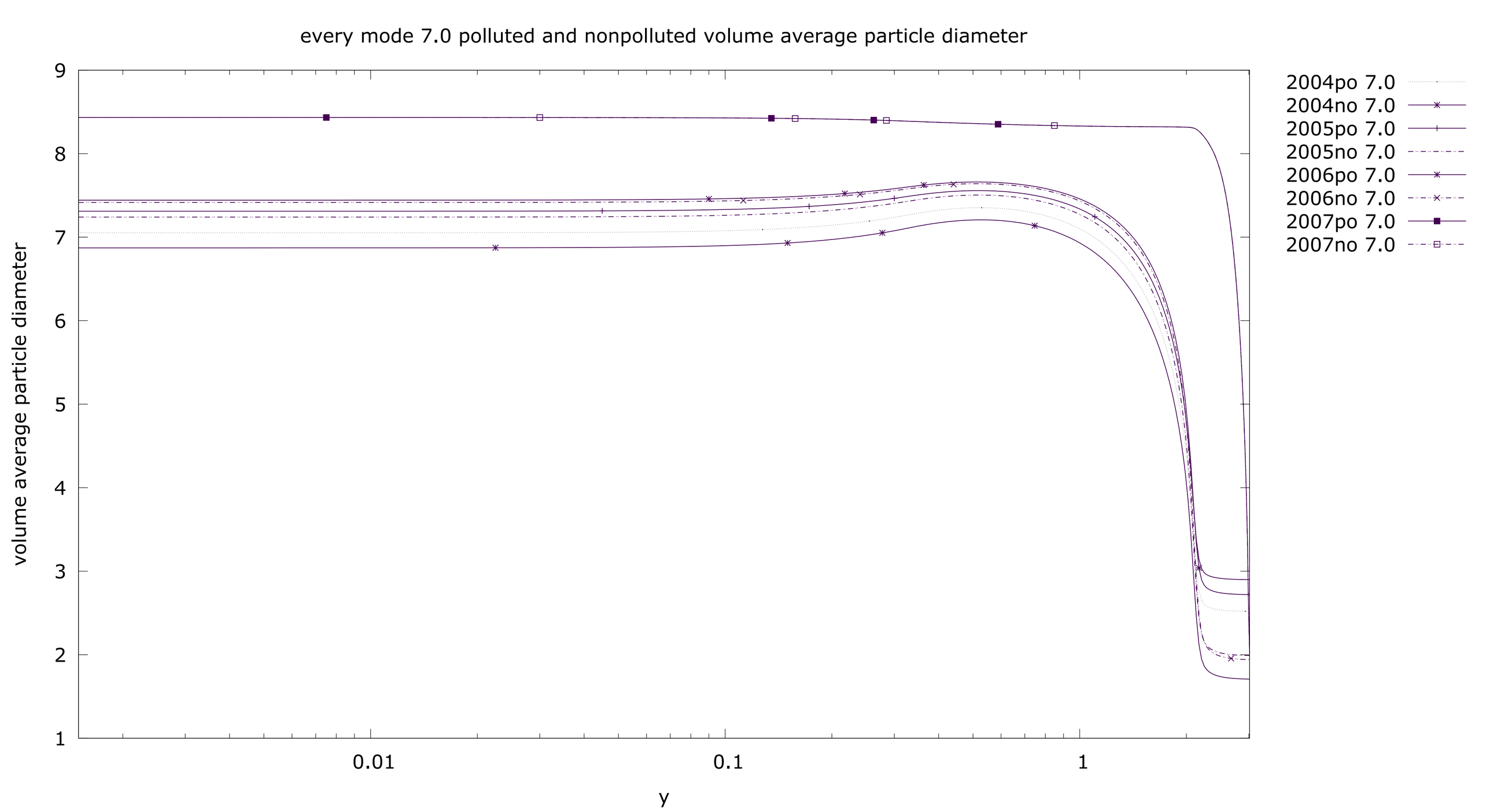
2007no 3.0


every mode 5.0 polluted and nonpolluted volume average particle diameter
volume average particle diameter
y
9
8
7
6
5
4
3
2
1
0.01
0.1
1
2004po 5.0
2004no 5.0
2005po 5.0
2005no 5.0
2006po 5.0
2006no 5.0
2007po 5.0
2007no 5.0


every mode 7.0 polluted and nonpolluted volume average particle diameter
volume average particle diameter
y
9
8
7
6
5
4
3
2
1
0.01
0.1
1
2004po 7.0
2004no 7.0
2005po 7.0
2005no 7.0
2006po 7.0
2006no 7.0
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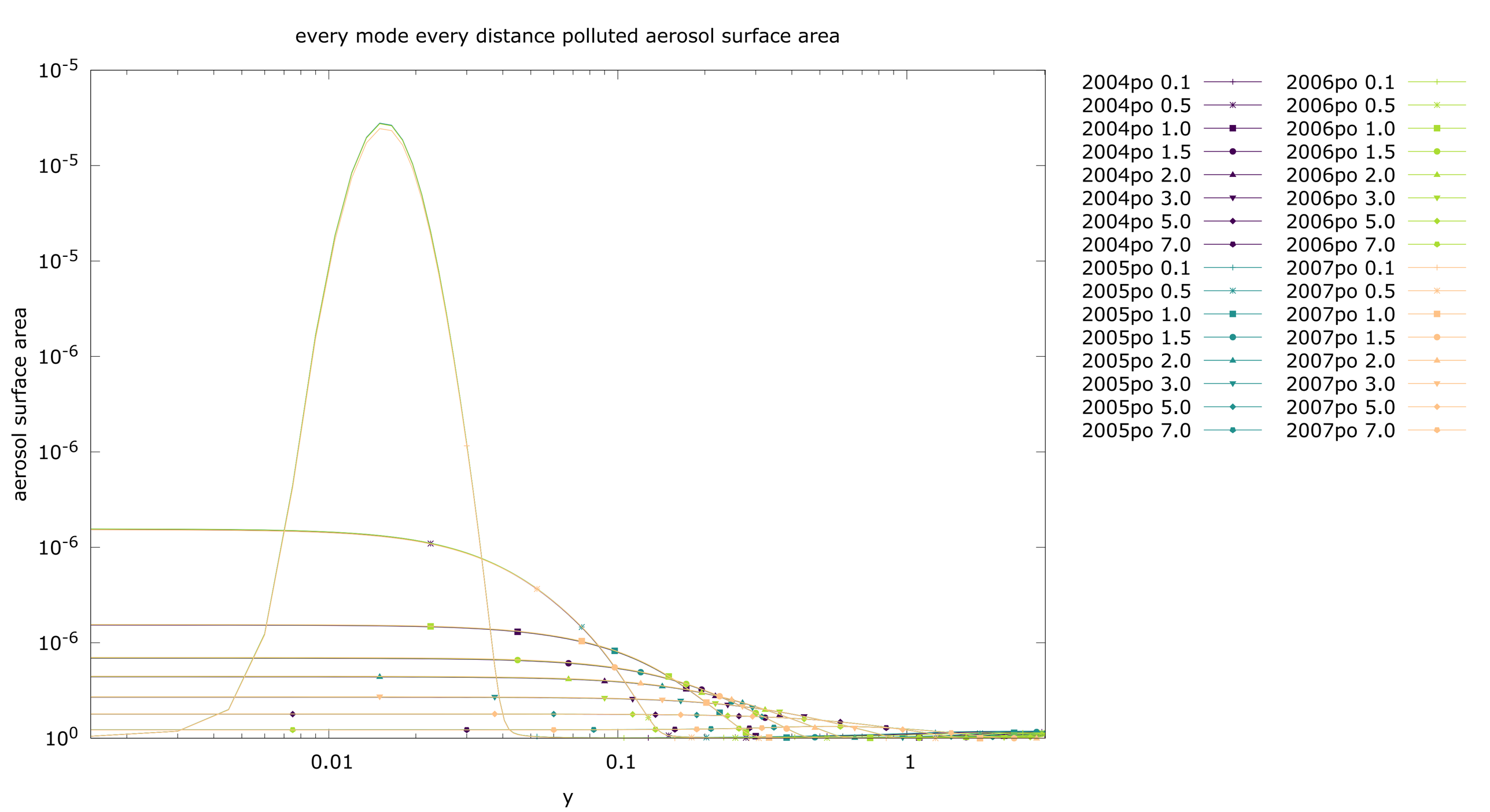
2007no 7.0


every mode every distance polluted aerosol surface area
aerosol surface area
y
10^{-5}
10^{-5}
10^{-5}
10^{-6}
10^{-6}
10^{-6}
10^{-6}
10^{0}
0.01
0.1
1
2004po 0.1
2004po 0.5
2004po 1.0
2004po 1.5
2004po 2.0
2004po 3.0
2004po 5.0
2004po 7.0
2005po 0.1
2005po 0.5
2005po 1.0
2005po 1.5
2005po 2.0
2005po 3.0
2005po 5.0
2005po 7.0
2006po 0.1
2006po 0.5
2006po 1.0
2006po 1.5
2006po 2.0
2006po 3.0
2006po 5.0
2006po 7.0
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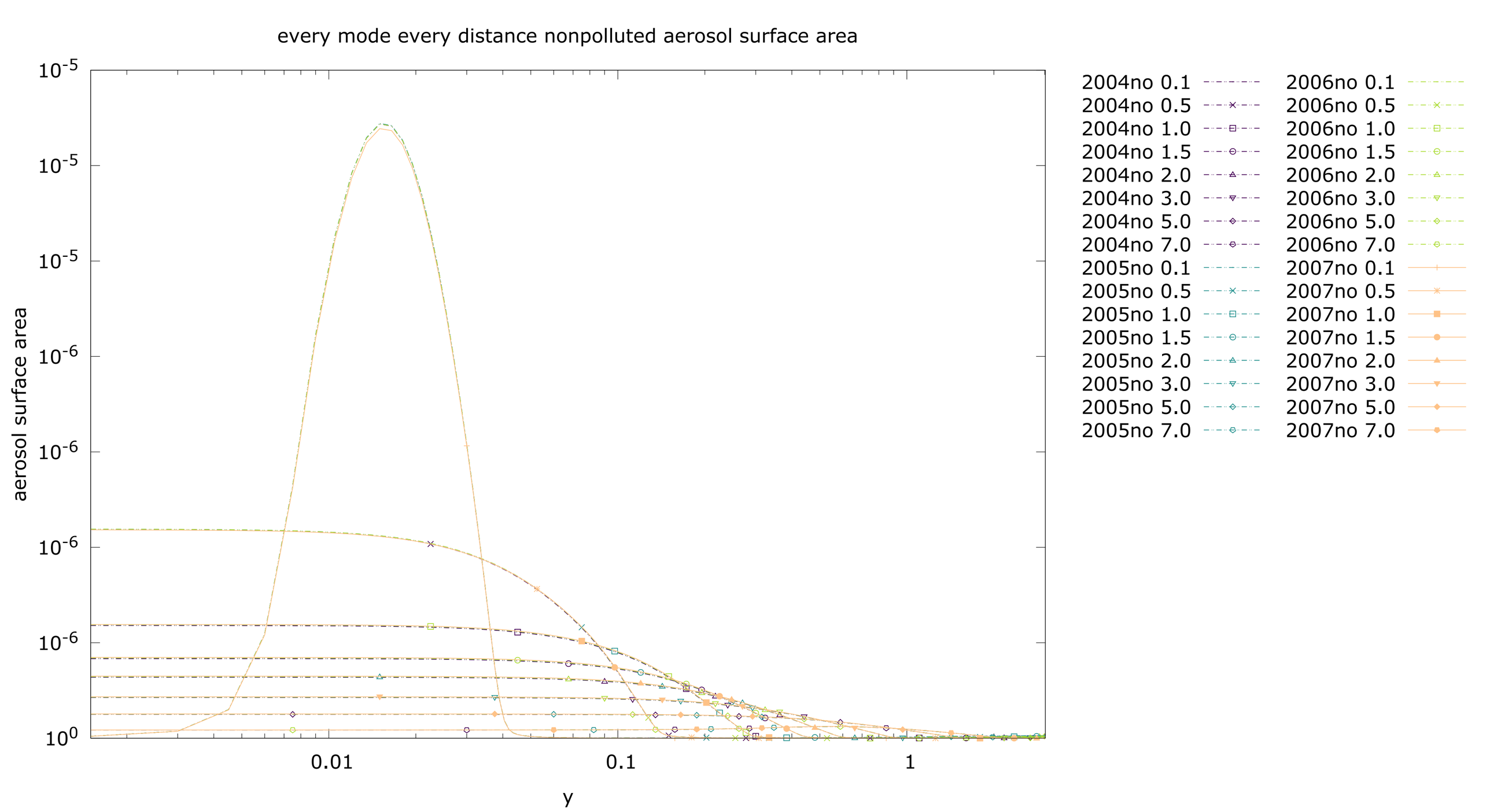
2007po 0.5
2007po 1.0
2007po 1.5
2007po 2.0
2007po 3.0
2007po 5.0
2007po 7.0


every mode every distance nonpolluted aerosol surface area
aerosol surface area
y
10^-5
10^-5
10^-5
10^-6
10^-6
10^-6
10^0
0.01
0.1
1
2004no 0.1
2004no 0.5
2004no 1.0
2004no 1.5
2004no 2.0
2004no 3.0
2004no 5.0
2004no 7.0
2005no 0.1
2005no 0.5
2005no 1.0
2005no 1.5
2005no 2.0
2005no 3.0
2005no 5.0
2005no 7.0
2006no 0.1
2006no 0.5
2006no 1.0
2006no 1.5
2006no 2.0
2006no 3.0
2006no 5.0
2006no 7.0
2007no 0.1
2007no 0.5
2007no 1.0
2007no 1.5
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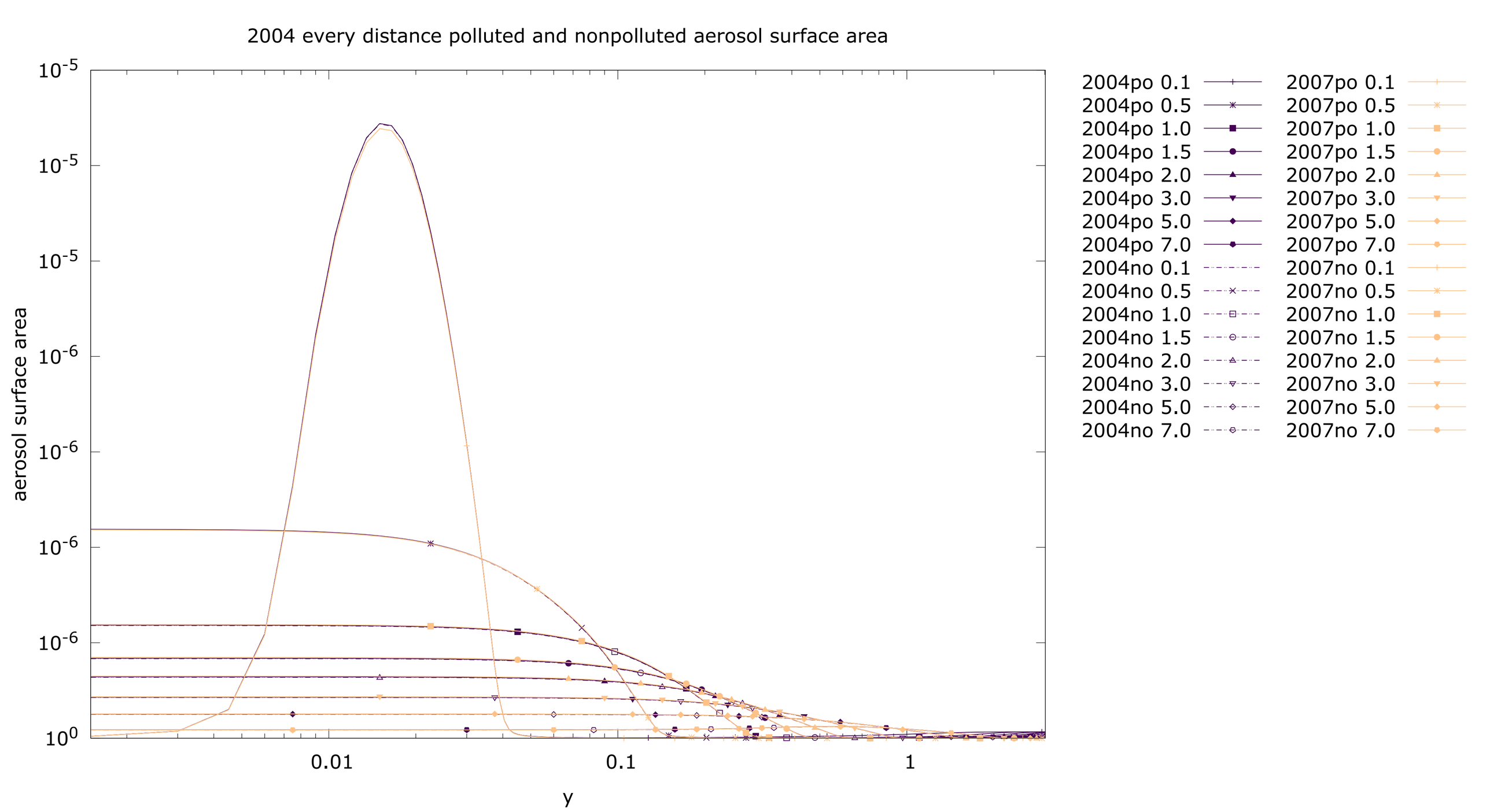
2007no 5.0
2007no 7.0


2004 every distance polluted and nonpolluted aerosol surface area
aerosol surface area
y
10^-5
10^-5
10^-5
10^-6
10^-6
10^-6
10^0
0.01
0.1
1
2004po 0.1
2004po 0.5
2004po 1.0
2004po 1.5
2004po 2.0
2004po 3.0
2004po 5.0
2004po 7.0
2004no 0.1
2004no 0.5
2004no 1.0
2004no 1.5
2004no 2.0
2004no 3.0
2004no 5.0
2004no 7.0
2007po 0.1
2007po 0.5
2007po 1.0
2007po 1.5
2007po 2.0
2007po 3.0
2007po 5.0
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2007no 0.5
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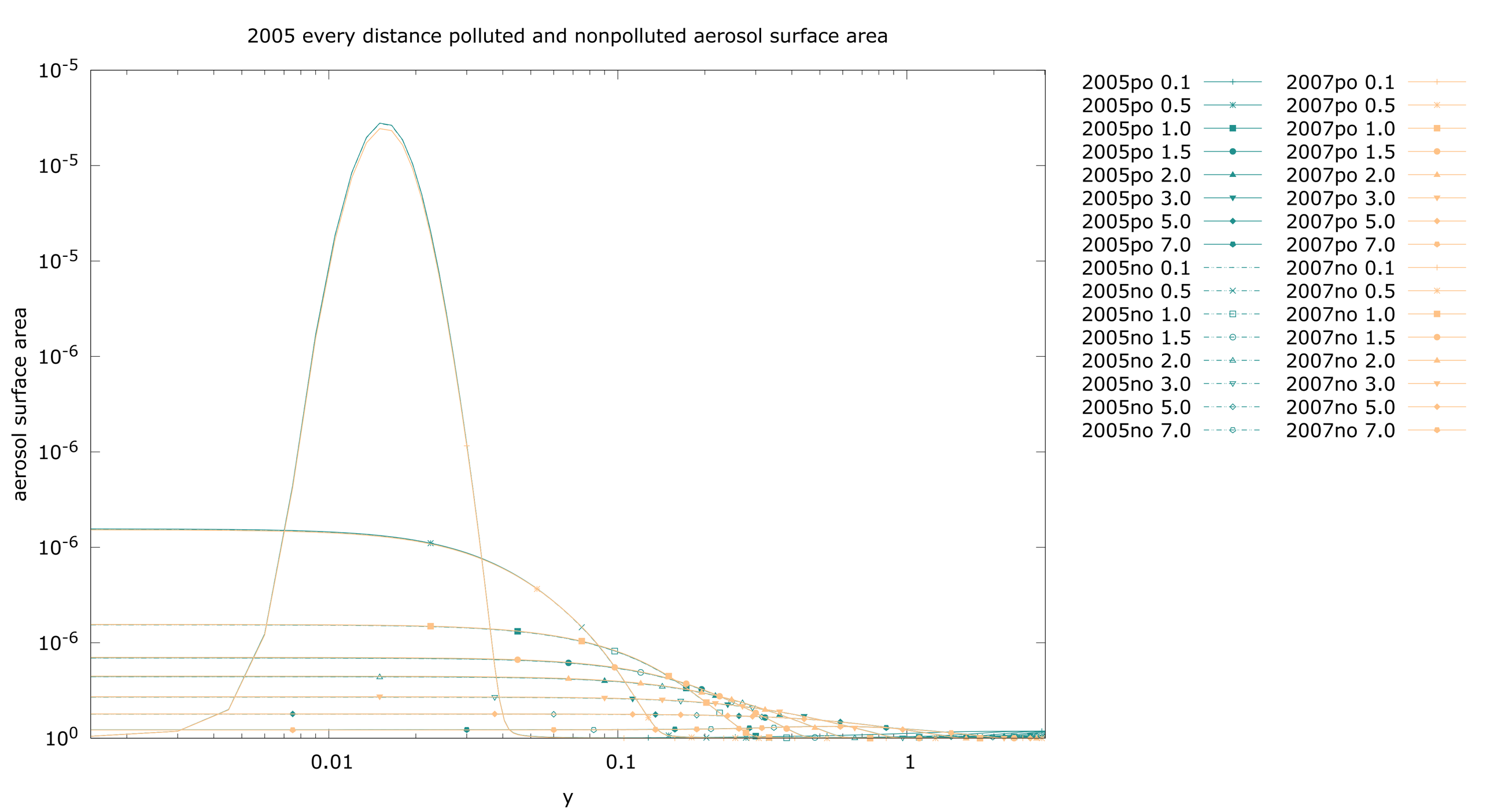
2007no 7.0


2005 every distance polluted and nonpolluted aerosol surface area
aerosol surface area
y
10^{-5}
10^{-5}
10^{-5}
10^{-6}
10^{-6}
10^{-6}
10^{0}
0.01
0.1
1
2005po 0.1
2005po 0.5
2005po 1.0
2005po 1.5
2005po 2.0
2005po 3.0
2005po 5.0
2005po 7.0
2005no 0.1
2005no 0.5
2005no 1.0
2005no 1.5
2005no 2.0
2005no 3.0
2005no 5.0
2005no 7.0
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2007po 0.5
2007po 1.0
2007po 1.5
2007po 2.0
2007po 3.0
2007po 5.0
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2007no 0.5
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2007no 1.5
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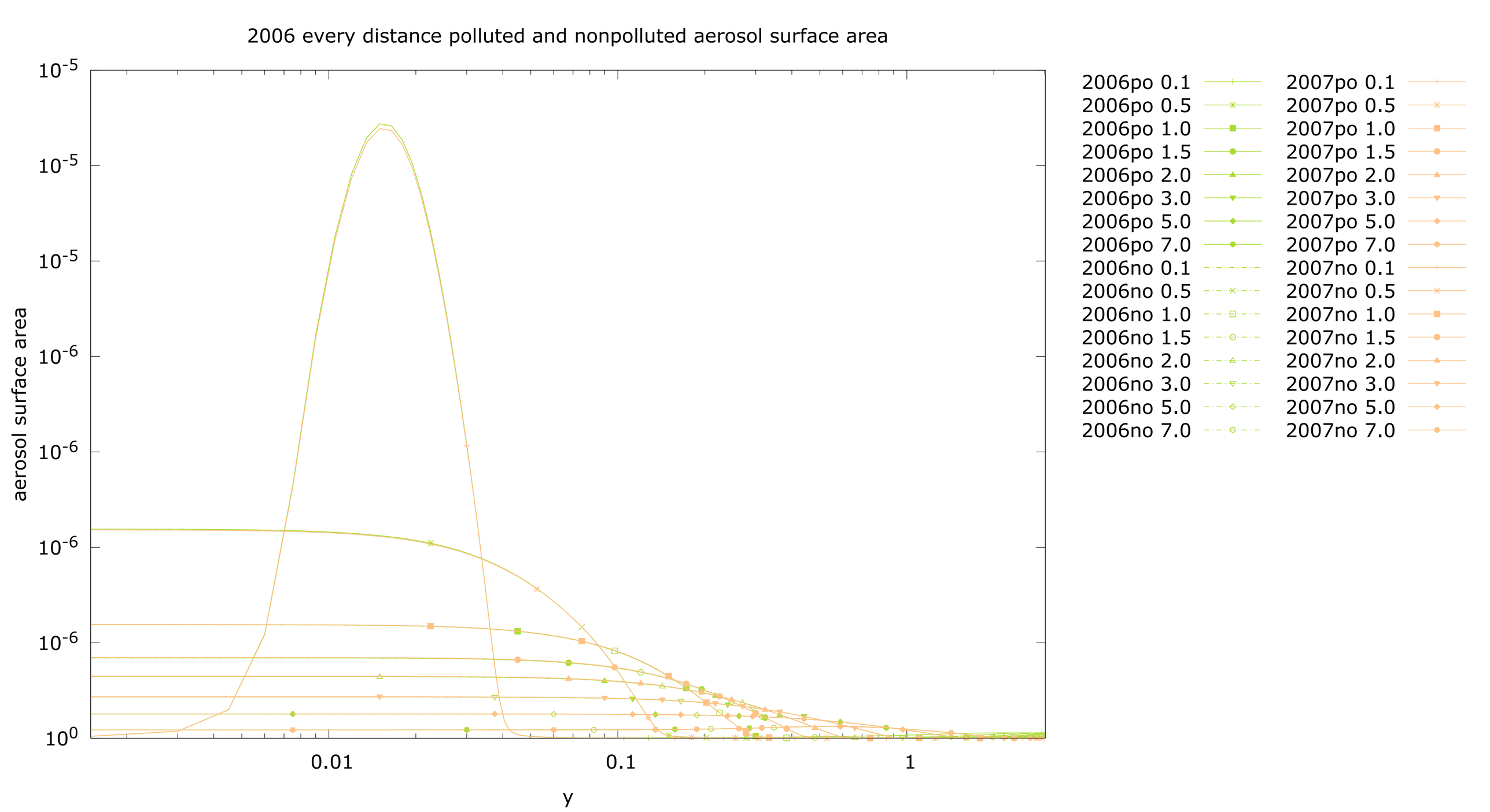
2007no 7.0


2006 every distance polluted and nonpolluted aerosol surface area
aerosol surface area
y
10^-5
10^-5
10^-5
10^-6
10^-6
10^-6
10^-6
10^0
0.01
0.1
1
2006po 0.1
2006po 0.5
2006po 1.0
2006po 1.5
2006po 2.0
2006po 3.0
2006po 5.0
2006po 7.0
2006no 0.1
2006no 0.5
2006no 1.0
2006no 1.5
2006no 2.0
2006no 3.0
2006no 5.0
2006no 7.0
2007po 0.1
2007po 0.5
2007po 1.0
2007po 1.5
2007po 2.0
2007po 3.0
2007po 5.0
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2007no 0.5
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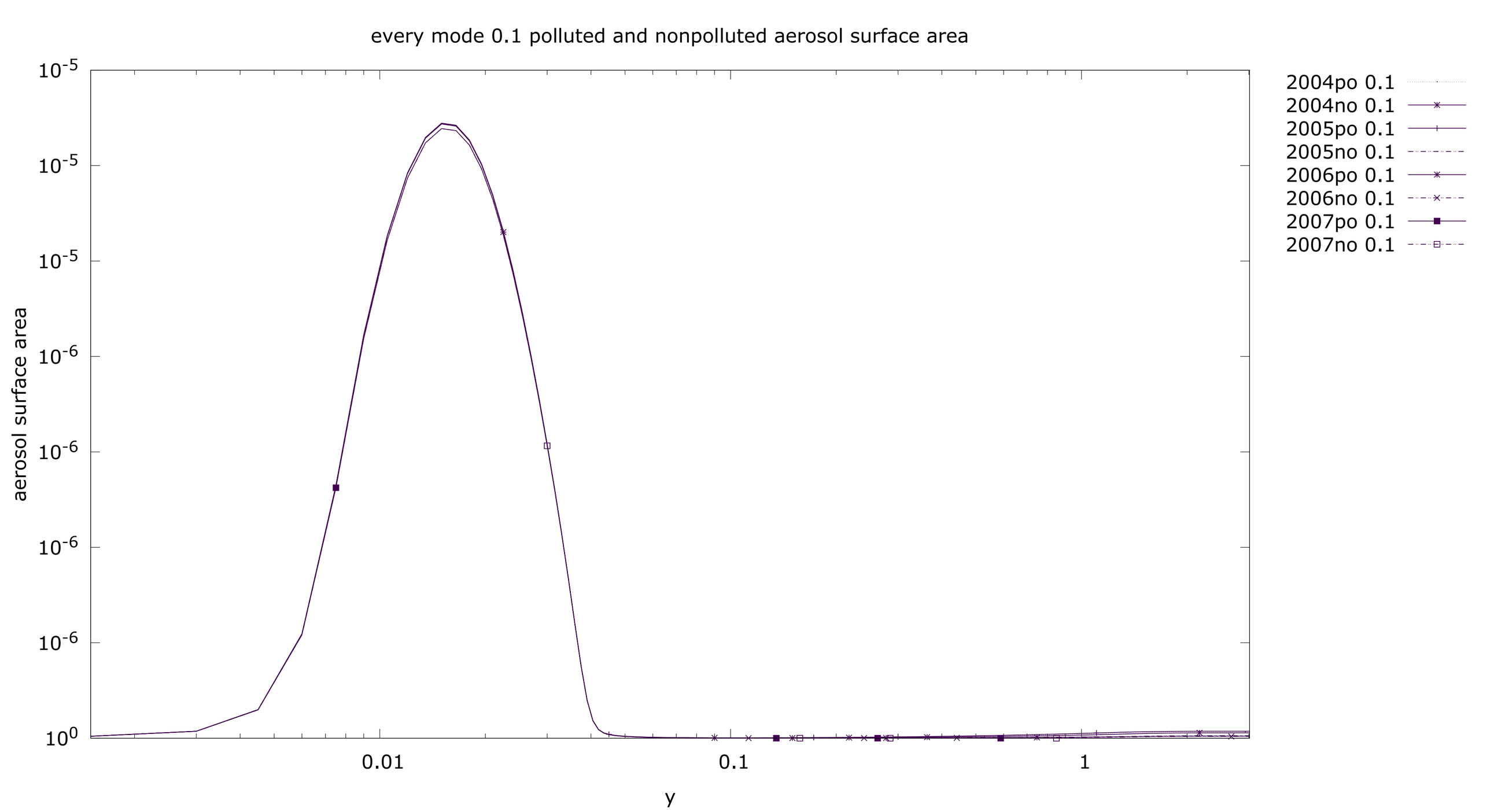
every mode 0.1 polluted and nonpolluted aerosol surface area
aerosol surface area
y
10-5
10-5
10-5
10-6
10-6
10-6
10-6
100
0.01
0.1
1
2004po 0.1
2004no 0.1
2005po 0.1
2005no 0.1
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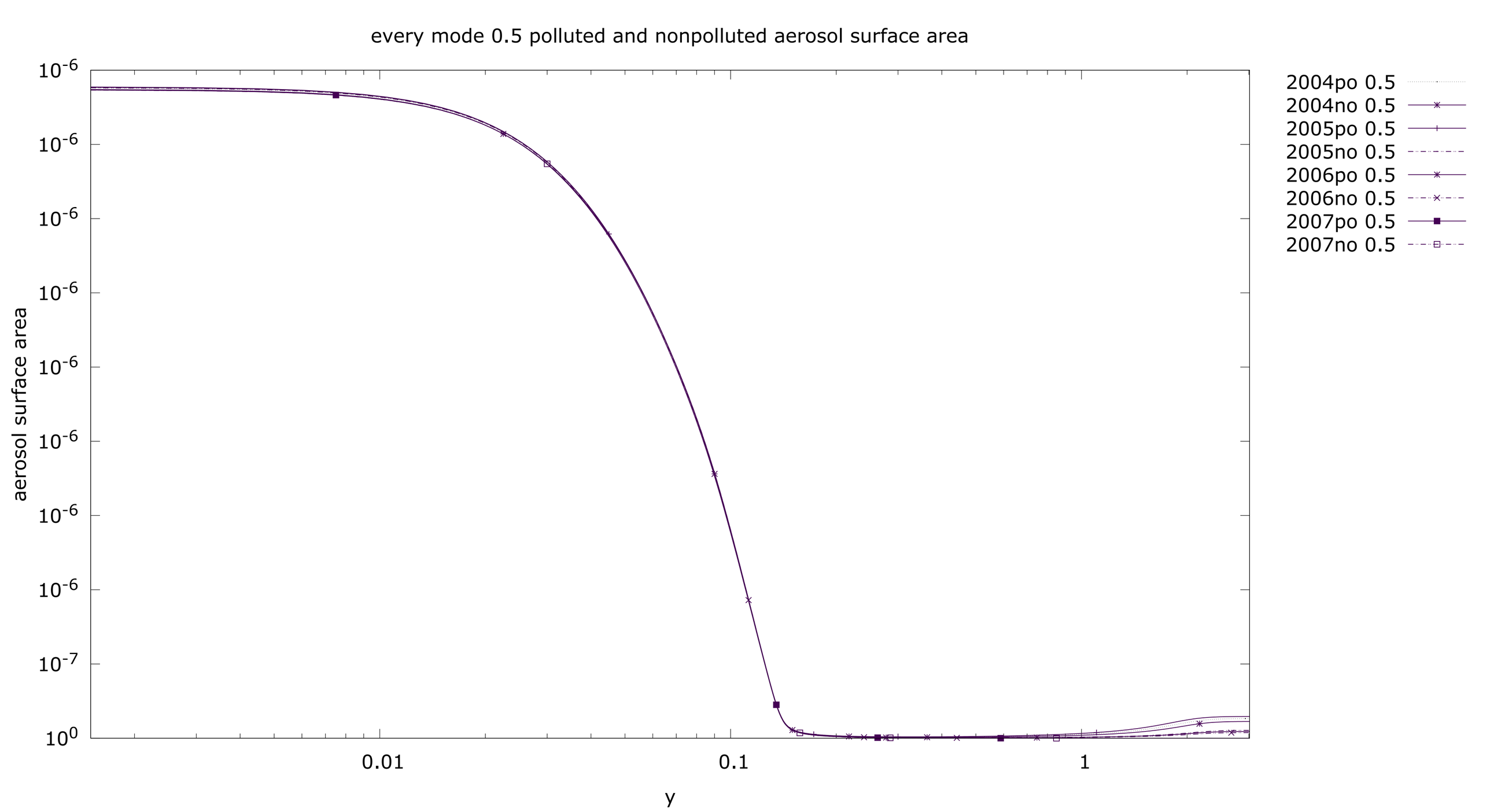
every mode 0.5 polluted and nonpolluted aerosol surface area
aerosol surface area
y
10^{-6}
10^{-6}
10^{-6}
10^{-6}
10^{-6}
10^{-6}
10^{-7}
10^{0}
0.01
0.1
1
2004po 0.5
2004no 0.5
2005po 0.5
2005no 0.5
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2006no 0.5
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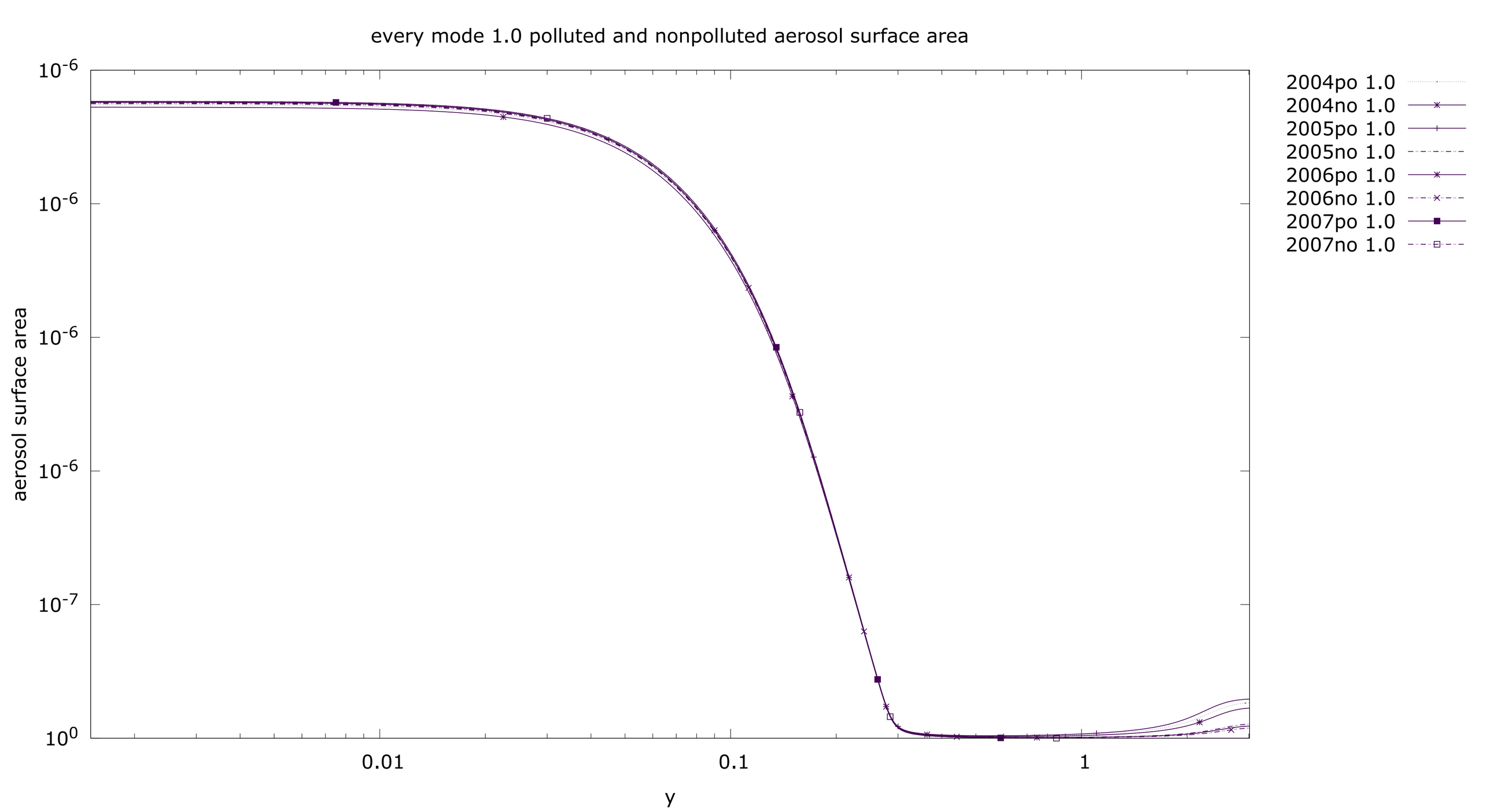
2007no 0.5


every mode 1.0 polluted and nonpolluted aerosol surface area
aerosol surface area
y
10-6
10-6
10-6
10-6
10-7
100
0.01
0.1
1
2004po 1.0
2004no 1.0
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2005no 1.0
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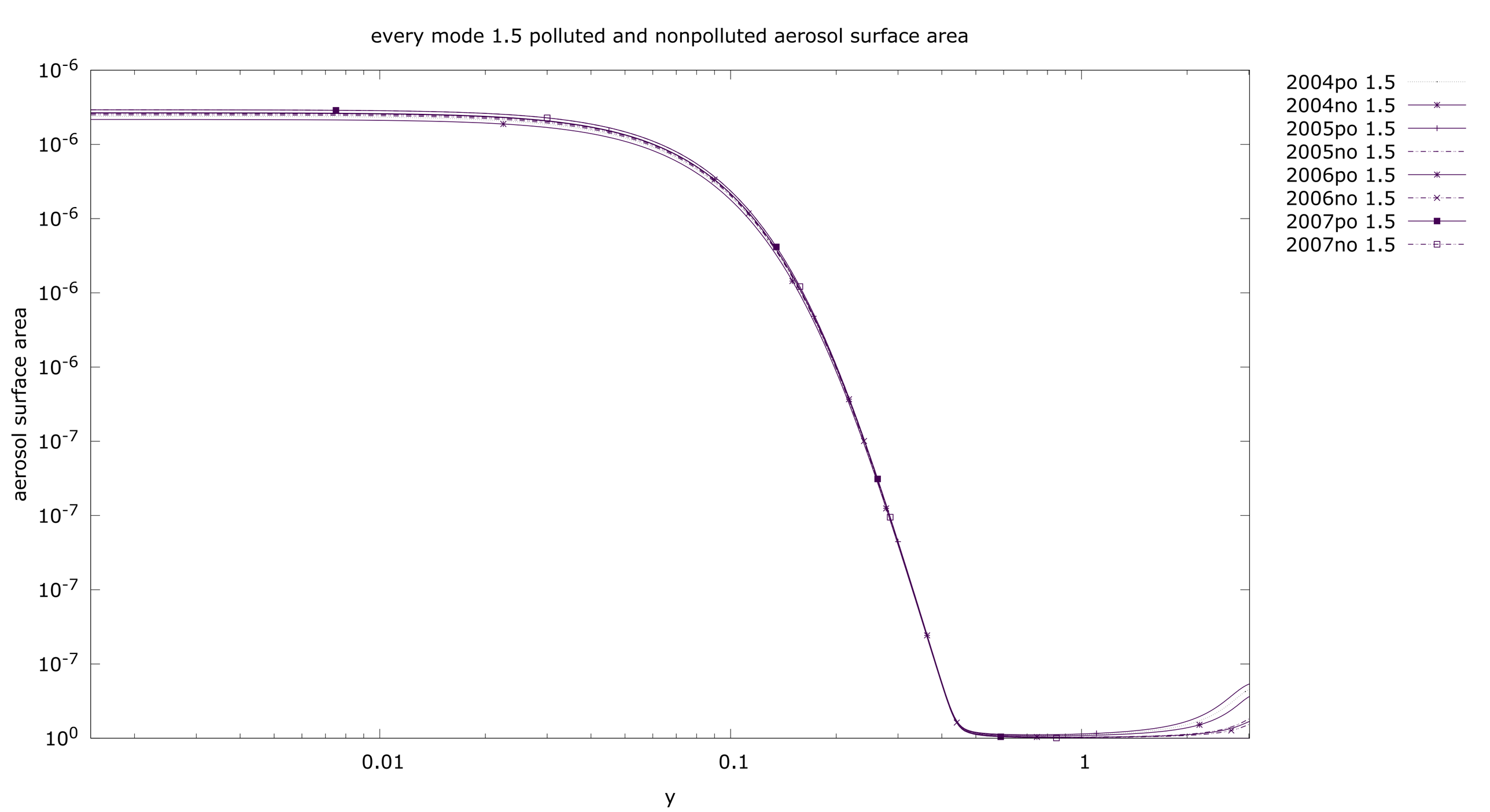
2007no 1.0


every mode 1.5 polluted and nonpolluted aerosol surface area
aerosol surface area
y
10^{-6}
10^{-6}
10^{-6}
10^{-6}
10^{-7}
10^{-7}
10^{-7}
10^{0}
0.01
0.1
1
2004po 1.5
2004no 1.5
2005po 1.5
2005no 1.5
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2006no 1.5
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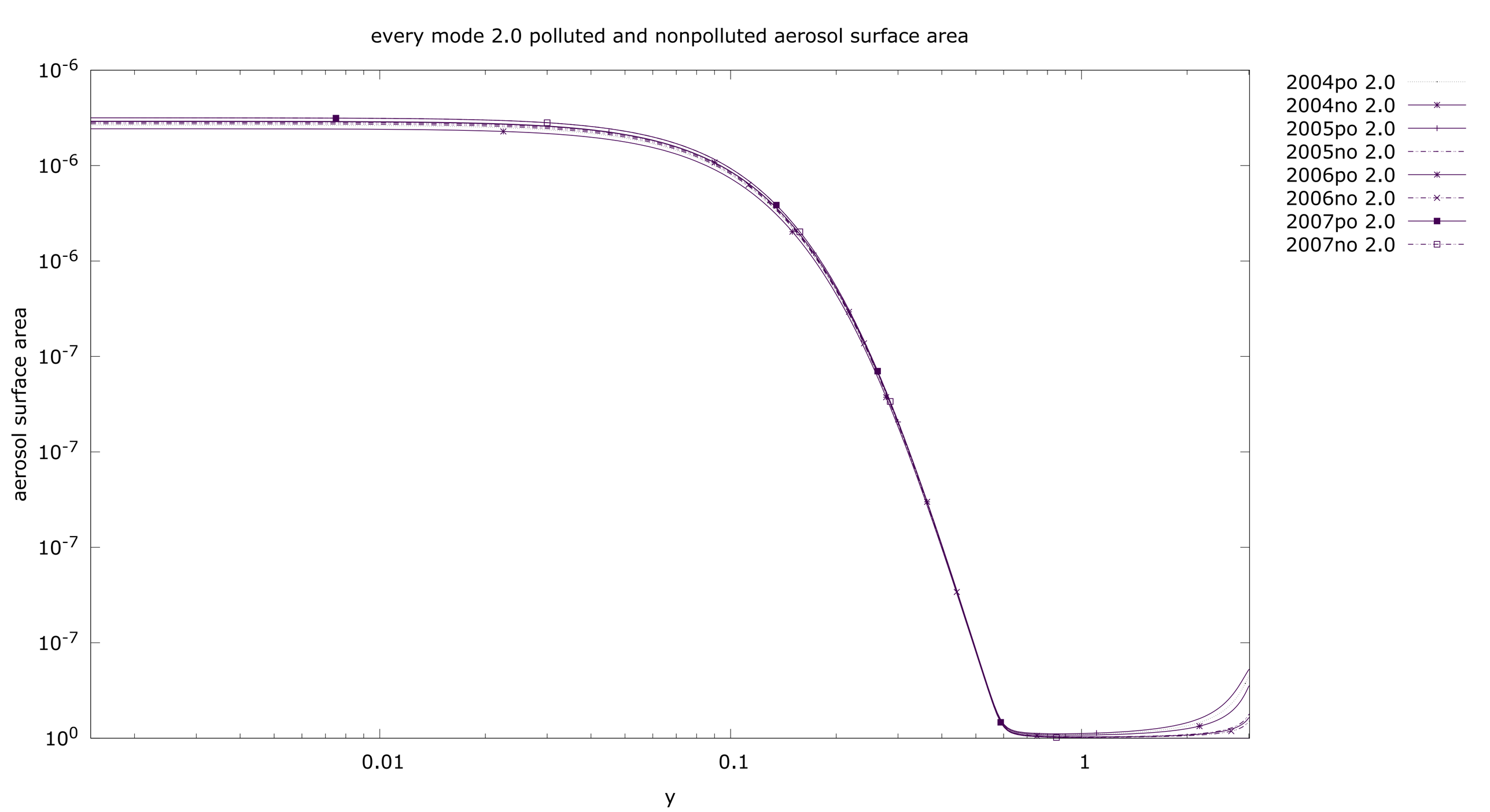
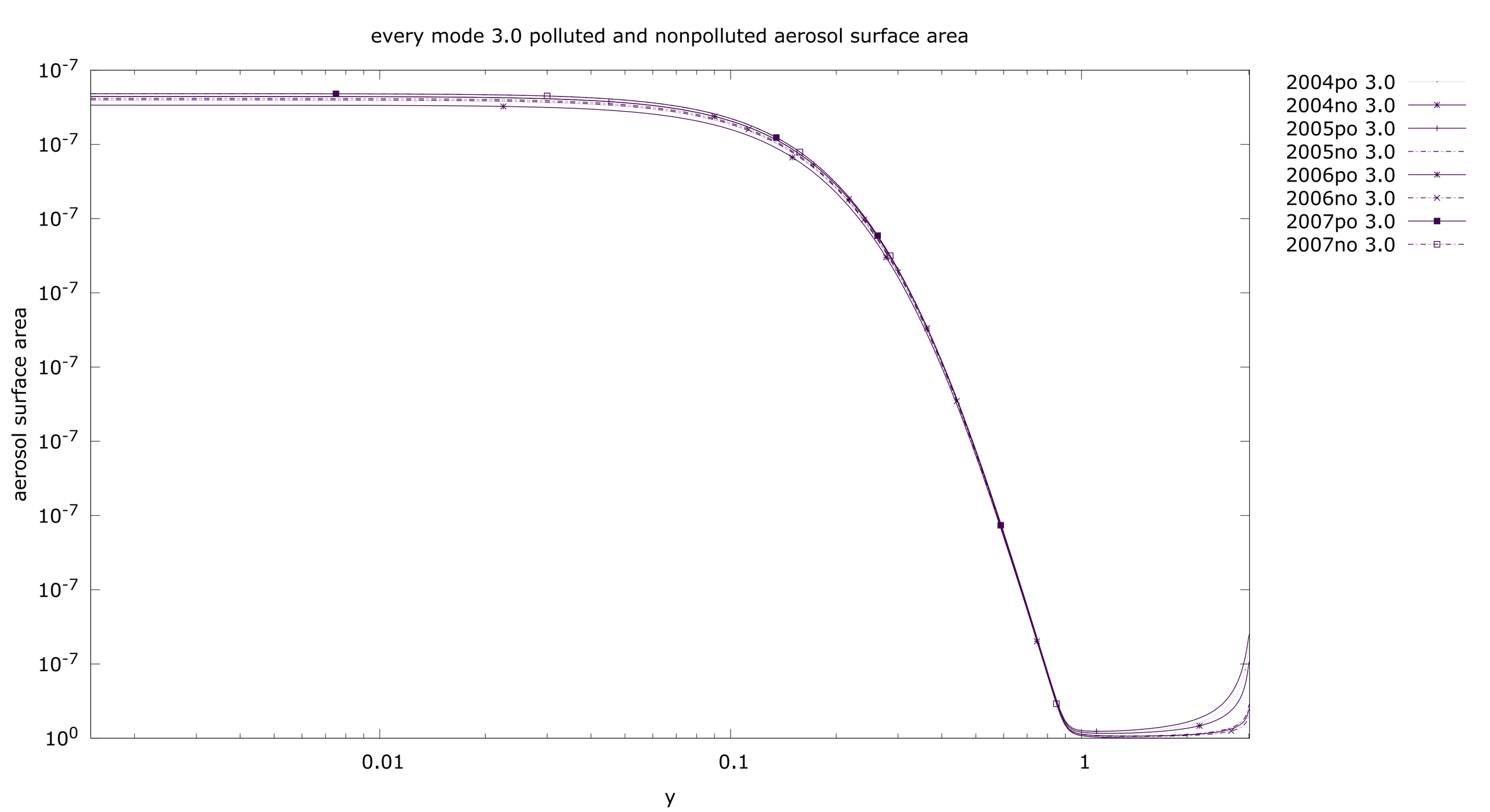
2007no 1.5


every mode 2.0 polluted and nonpolluted aerosol surface area
aerosol surface area
y
10^{-6}
10^{-6}
10^{-6}
10^{-7}
10^{-7}
10^{-7}
10^{0}
0.01
0.1
1
2004po 2.0
2004no 2.0
2005po 2.0
2005no 2.0
2006po 2.0
2006no 2.0
2007po 2.0
2007no 2.0


every mode 3.0 polluted and nonpolluted aerosol surface area
aerosol surface area
y
10-7
10-7
10-7
10-7
10-7
10-7
10-7
10-7
100
0.01
0.1
1
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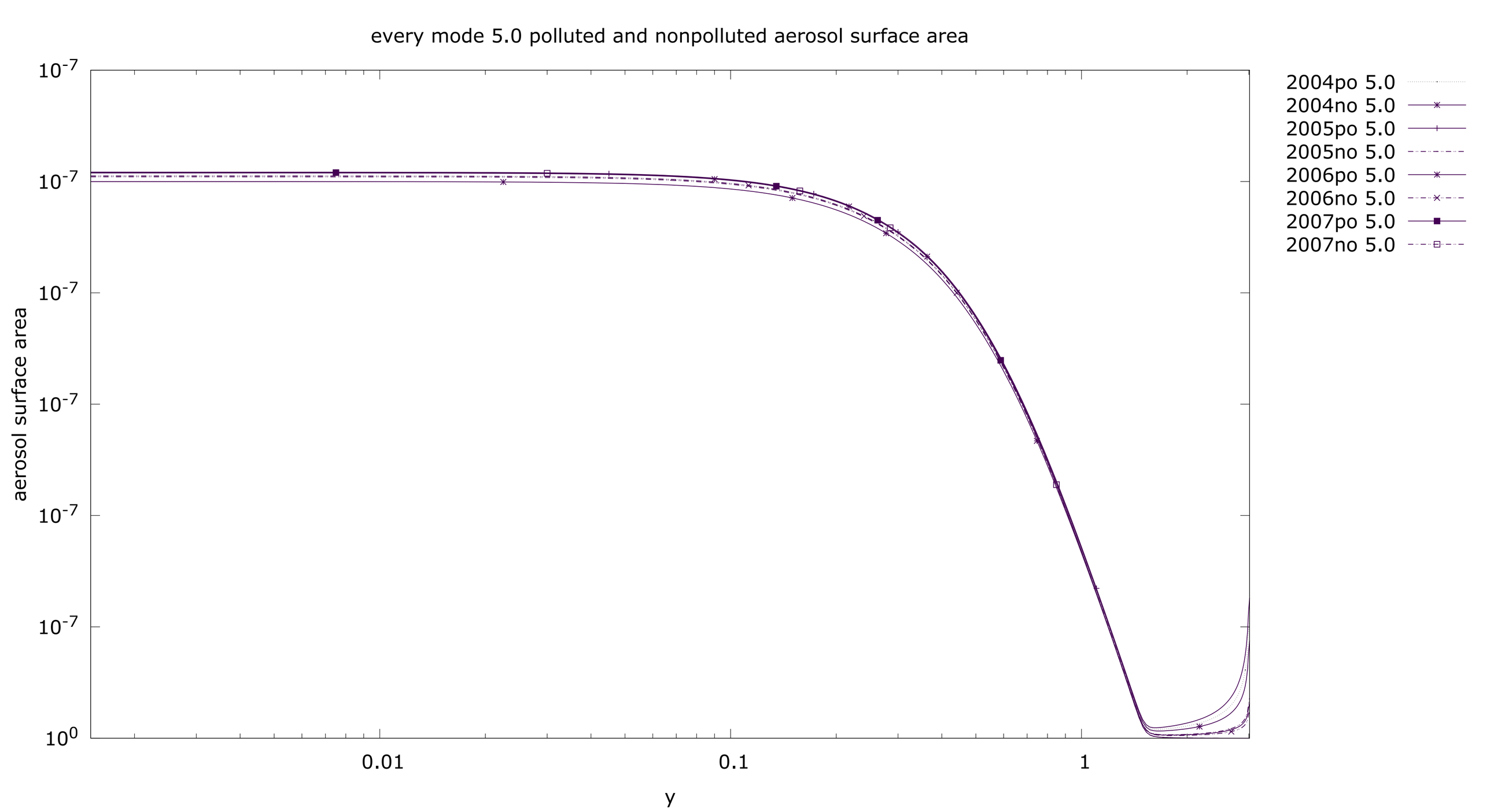
2004no 3.0
2005po 3.0
2005no 3.0
2006po 3.0
2006no 3.0
2007po 3.0
2007no 3.0


every mode 5.0 polluted and nonpolluted aerosol surface area
aerosol surface area
y
10^{-7}
10^{-7}
10^{-7}
10^{-7}
10^{-7}
10^{0}
0.01
0.1
1
2004po 5.0
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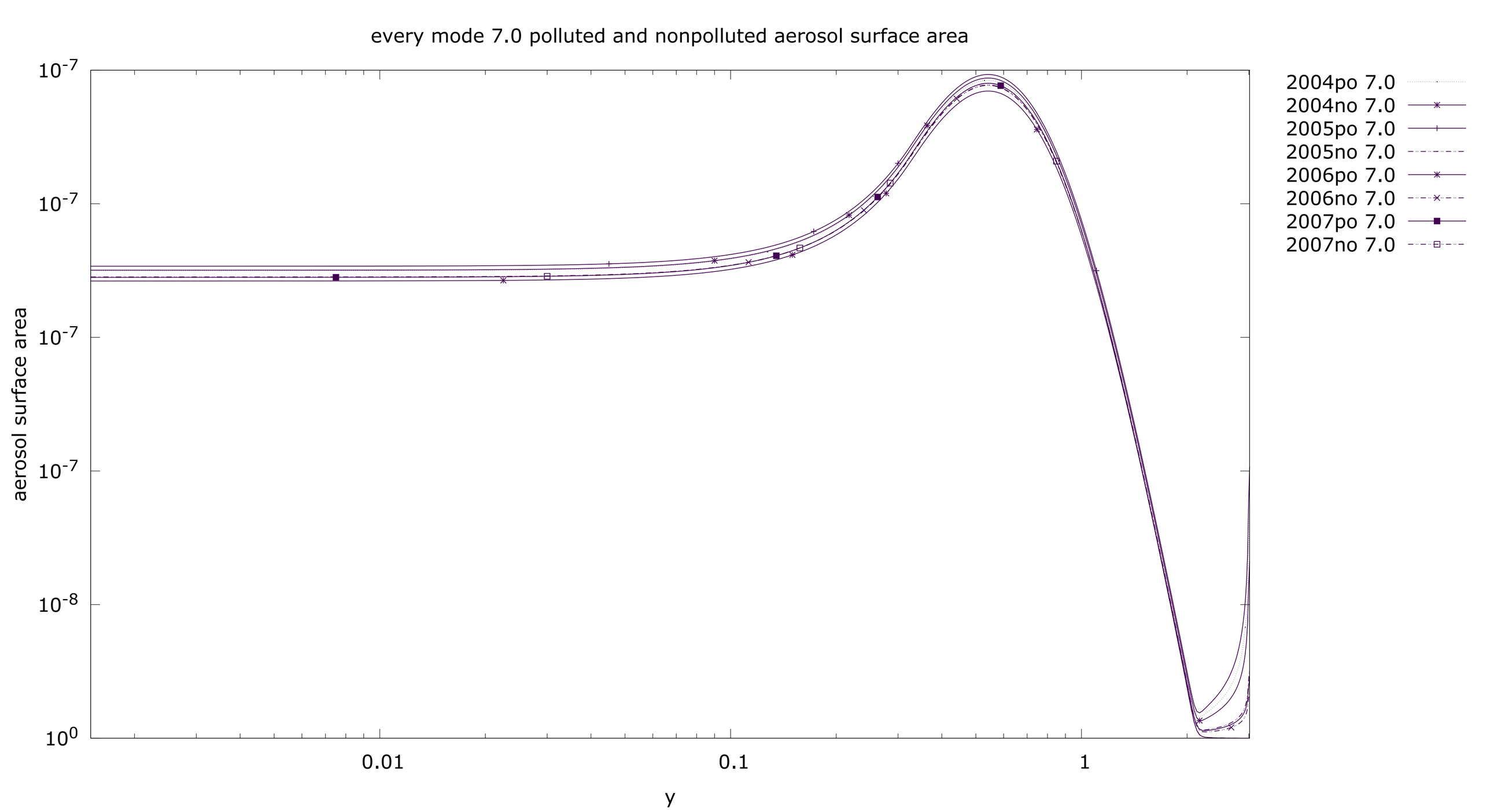
2005po 5.0
2005no 5.0
2006po 5.0
2006no 5.0
2007po 5.0
2007no 5.0


every mode 7.0 polluted and nonpolluted aerosol surface area
aerosol surface area
y
10^-7
10^-7
10^-7
10^-7
10^-8
10^0
0.01
0.1
1
2004po 7.0
2004no 7.0
2005po 7.0
2005no 7.0
2006po 7.0
2006no 7.0
2007po 7.0
2007no 7.0