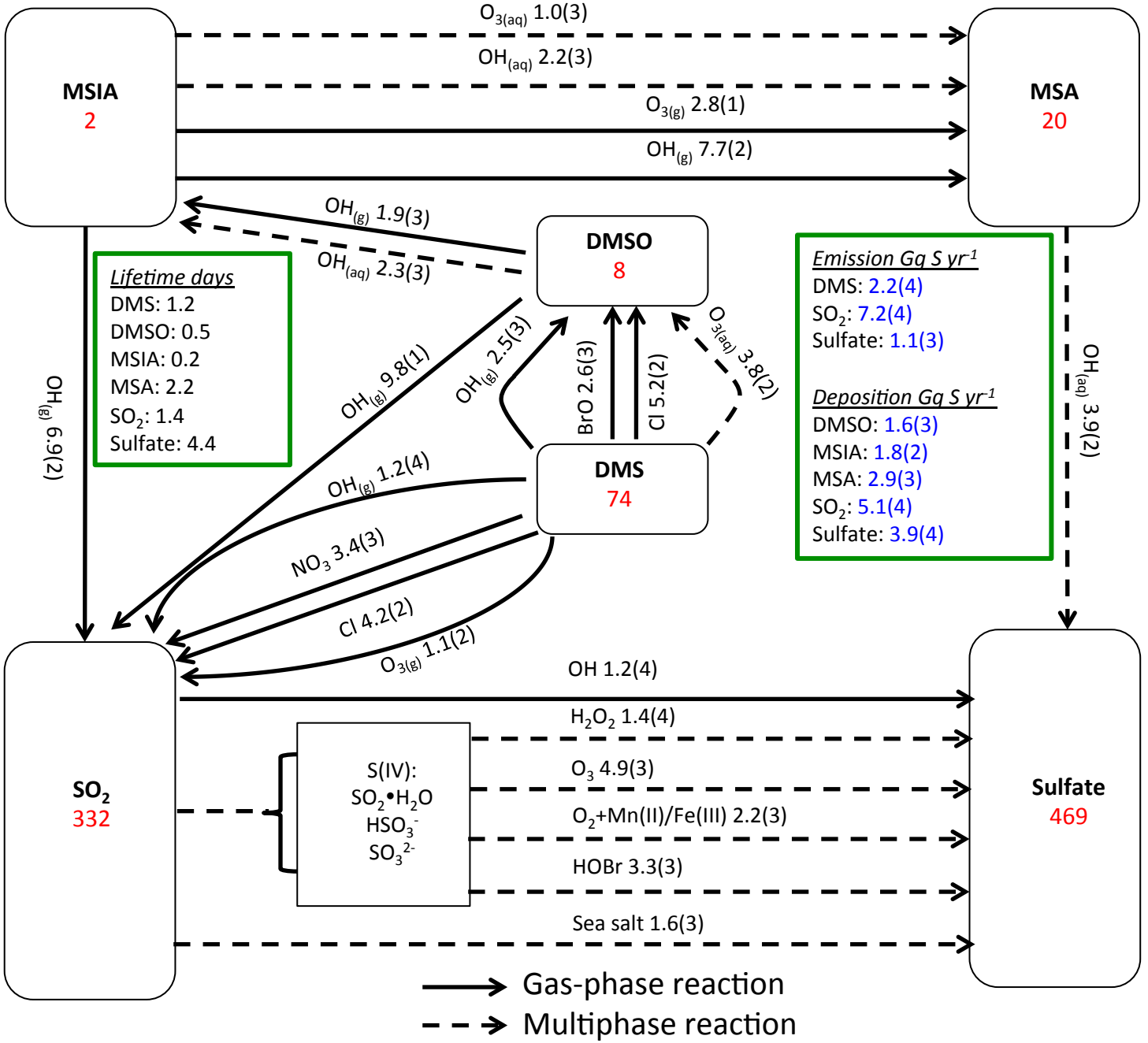
MSIA
2
MSA
20
DMSO
8
DMS
74
SO2
332
Sulfate
469
O3(aq) 1.0(3)
OH(aq) 2.2(3)
O3(g) 2.8(1)
OH(g) 7.7(2)
OH(g) 1.9(3)
OH(aq) 2.3(3)
OH(g) 6.9(2)
OH(g) 9.8(1)
OH(g) 2.5(3)
BrO 2.6(3)
Cl 5.2(2)
O3(aq) 3.8(2)
OH(g) 1.2(4)
NO3 3.4(3)
Cl 4.2(2)
O3(g) 1.1(2)
OH(aq) 3.9(2)
OH 1.2(4)
H2O2 1.4(4)
O3 4.9(3)
O2+Mn(II)/Fe(III) 2.2(3)
HOBr 3.3(3)
Sea salt 1.6(3)
S(IV):
SO2•H2O
HSO3-
SO32-
Lifetime days
DMS: 1.2
DMSO: 0.5
MSIA: 0.2
MSA: 2.2
SO2: 1.4
Sulfate: 4.4
Emission Gg S yr-1
DMS: 2.2(4)
SO2: 7.2(4)
Sulfate: 1.1(3)
Deposition Gg S yr-1
DMSO: 1.6(3)
MSIA: 1.8(2)
MSA: 2.9(3)
SO2: 5.1(4)
Sulfate: 3.9(4)
Gas-phase reaction
Multiphase reaction