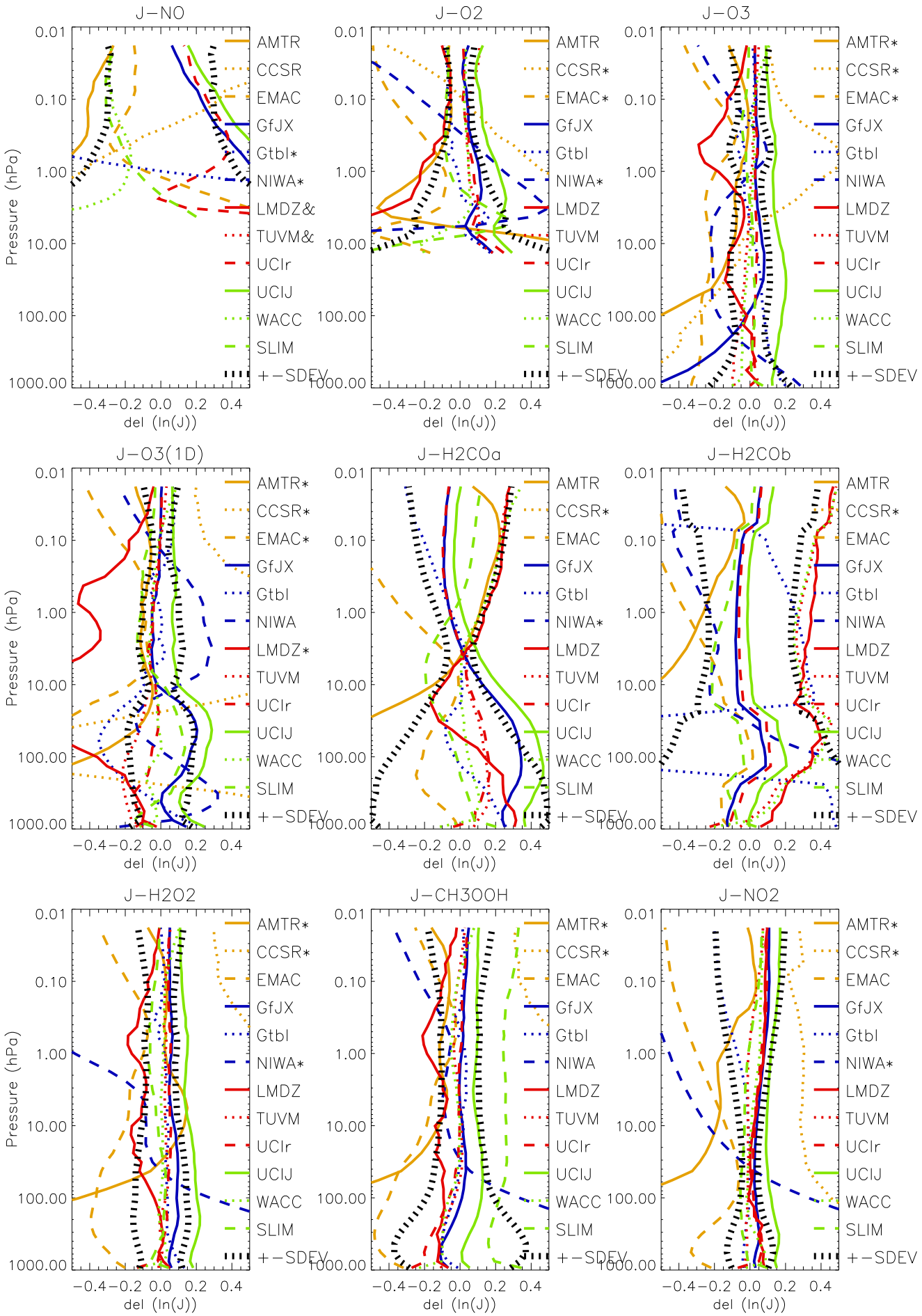
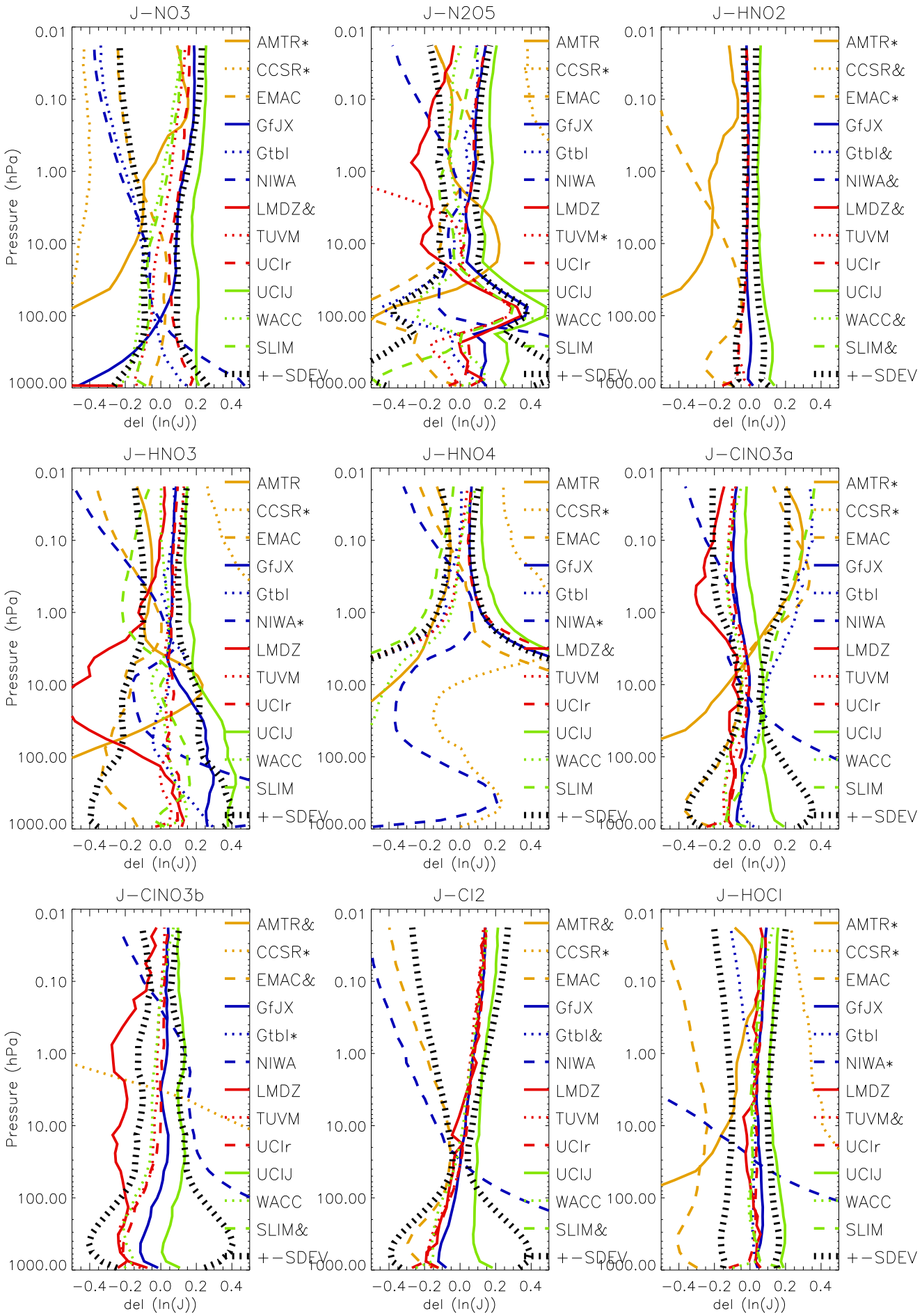
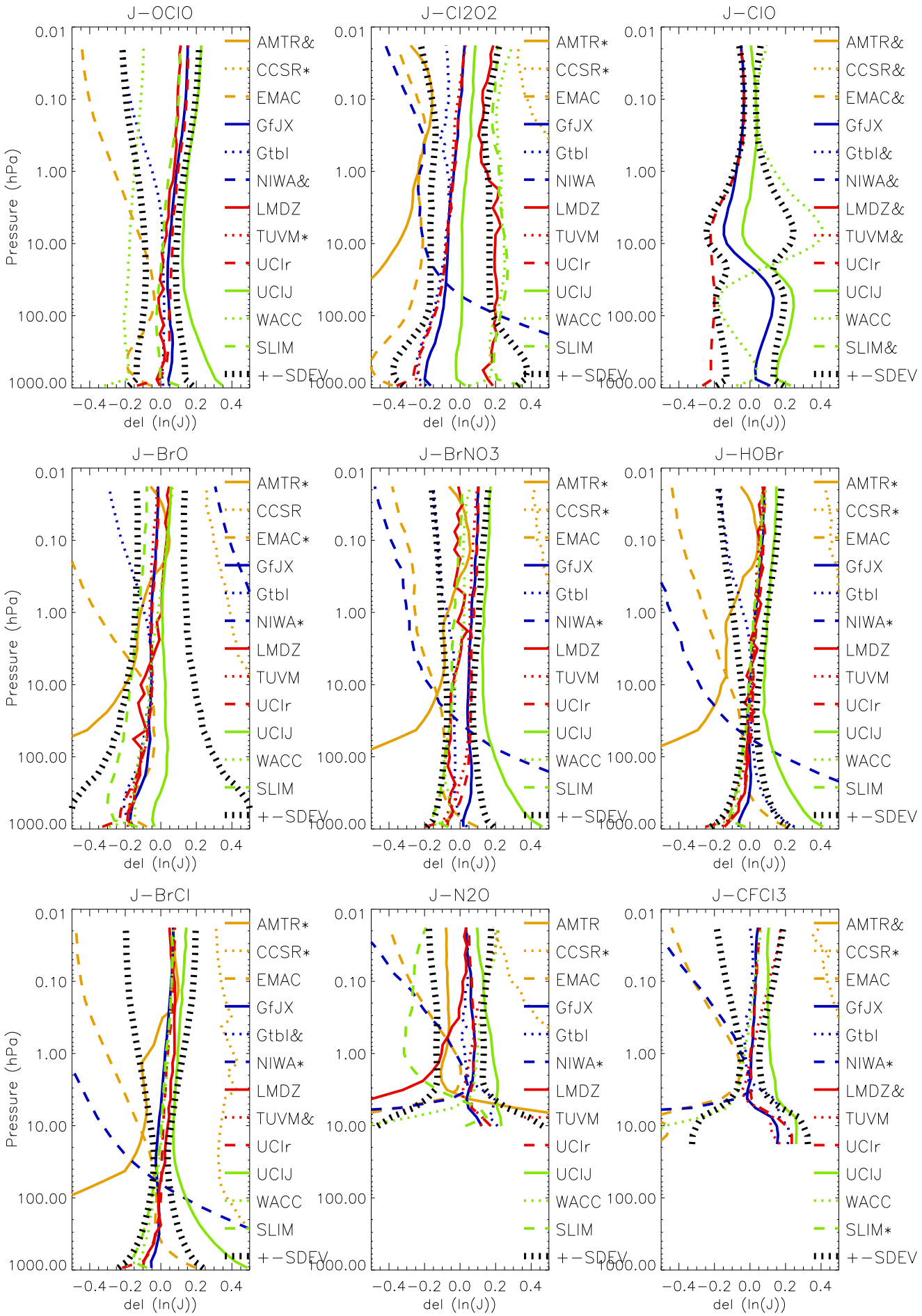
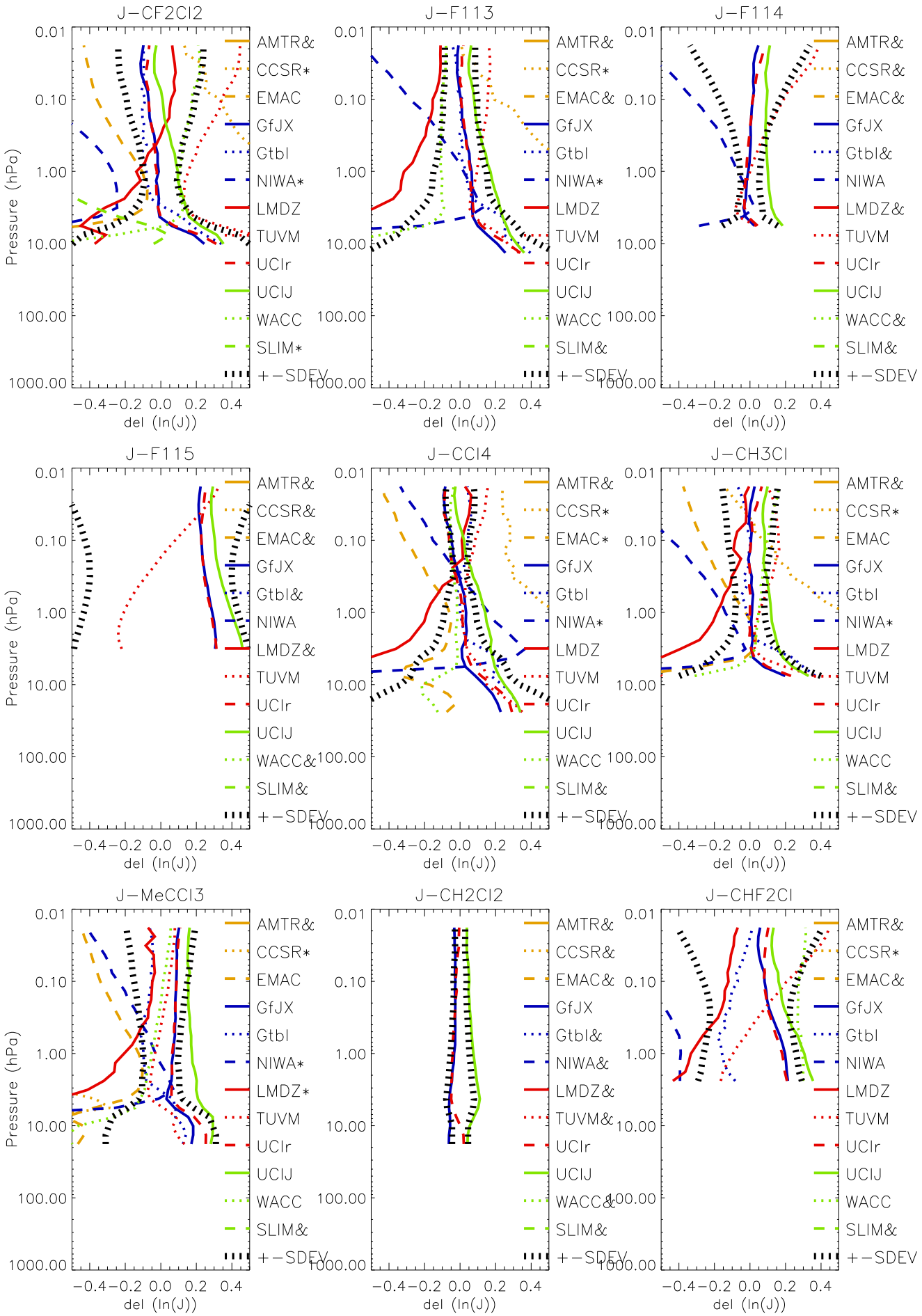
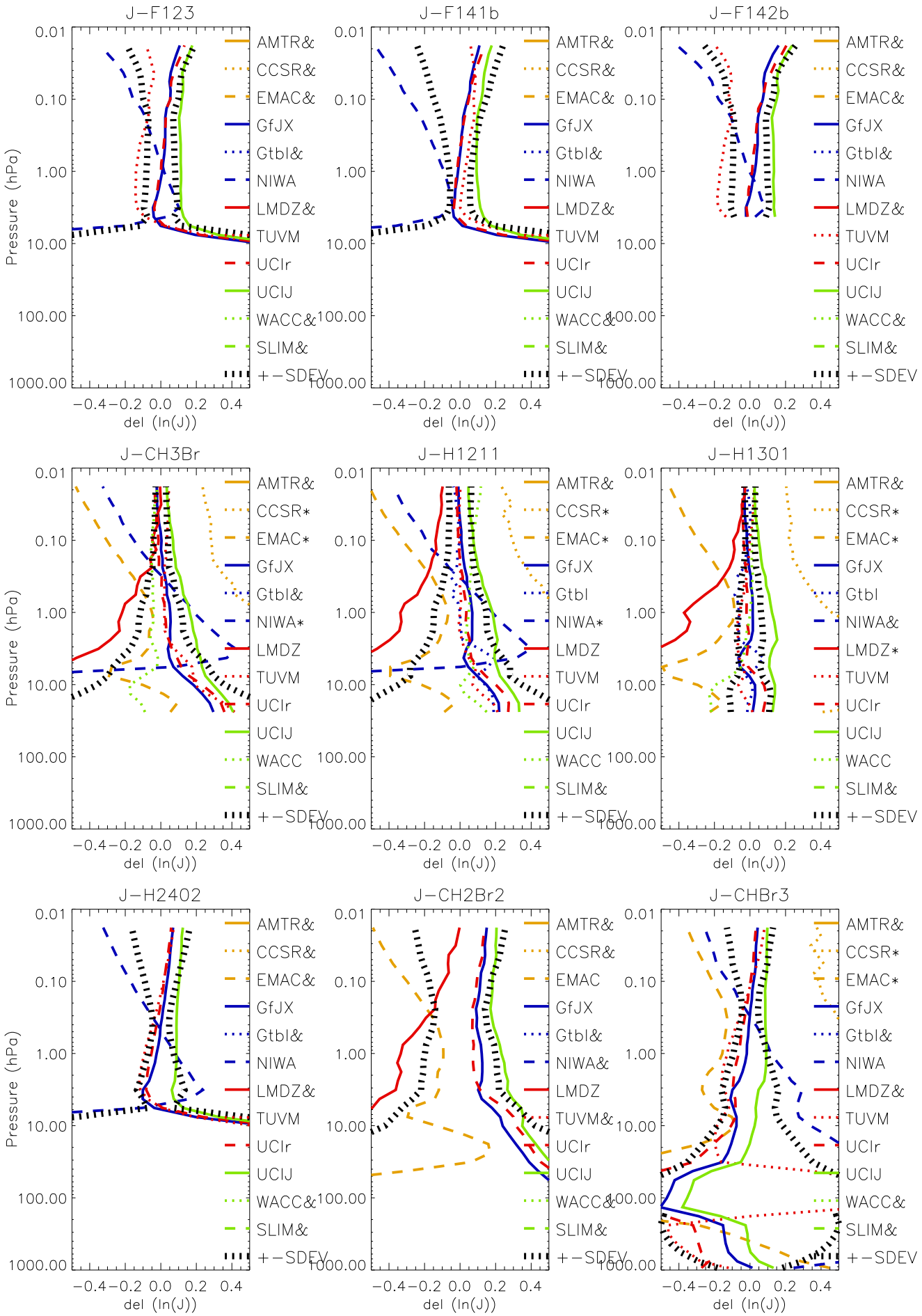

J−NO
J−O2
J−O3
J−O3(1D)
J−H2COa
J−H2COb
J−H2O2
J−CH3OOH
J−NO2
Pressure (hPa)
0.01
0.10
1.00
10.00
100.00
1000.00
−0.4 −0.2 0.0 0.2 0.4
del (ln(J))
AMTR
CCSR
EMAC
GfJX
Gtbl
NIWA
LMDZ
TUVM
UCIr
UCIJ
WACC
SLIM
+−SDEV
AMTR*
CCSR*
EMAC*
NIWA*
LMDZ*
LMDZ&
TUVM&


J−NO3
J−N2O5
J−HNO2
J−HNO3
J−HNO4
J−ClNO3a
J−ClNO3b
J−Cl2
J−HOCl
Pressure (hPa)
0.01
0.10
1.00
10.00
100.00
1000.00
−0.4 −0.2 0.0 0.2 0.4
del (ln(J))
AMTR*
CCSR*
EMAC
GfJX
Gtbl
NIWA
LMDZ&
TUVM
UCIr
UCIJ
WACC
SLIM
+−SDEV
AMTR
CCSR*
EMAC
GfJX
Gtbl
NIWA
LMDZ
TUVM*
UCIr
UCIJ
WACC
SLIM
+−SDEV
AMTR*
CCSR&
EMAC*
GfJX
Gtbl&
NIWA&
LMDZ&
TUVM
UCIr
UCIJ
WACC&
SLIM&
+−SDEV
AMTR
CCSR*
EMAC
GfJX
Gtbl
NIWA*
LMDZ
TUVM
UCIr
UCIJ
WACC
SLIM
+−SDEV
AMTR
CCSR*
EMAC
GfJX
Gtbl
NIWA*
LMDZ&
TUVM
UCIr
UCIJ
WACC
SLIM
+−SDEV
AMTR*
CCSR*
EMAC
GfJX
Gtbl
NIWA
LMDZ
TUVM
UCIr
UCIJ
WACC
SLIM
+−SDEV
AMTR&
CCSR*
EMAC&
GfJX
Gtbl*
NIWA
LMDZ
TUVM
UCIr
UCIJ
WACC
SLIM&
+−SDEV
AMTR&
CCSR*
EMAC
GfJX
Gtbl&
NIWA
LMDZ
TUVM
UCIr
UCIJ
WACC
SLIM&
+−SDEV
AMTR*
CCSR*
EMAC
GfJX
Gtbl
NIWA*
LMDZ
TUVM&
UCIr
UCIJ
WACC
SLIM
+−SDEV


J−OClO
J−Cl2O2
J−ClO
J−BrO
J−BrNO3
J−HOBr
J−BrCl
J−N2O
J−CFCl3
Pressure (hPa)
0.01
0.10
1.00
10.00
100.00
1000.00
−0.4 −0.2 0.0 0.2 0.4
del (ln(J))
AMTR&
AMTR*
AMTR
CCSR*
CCSR&
CCSR
EMAC
EMAC&
EMAC*
GfJX
Gtbl
Gtbl&
NIWA&
NIWA*
NIWA
LMDZ
LMDZ&
TUVM*
TUVM&
TUVM
UCIr
UCIJ
WACC
SLIM
SLIM&
SLIM*
+−SDEV


J−CF2Cl2
J−F113
J−F114
J−F115
J−CCl4
J−CH3Cl
J−MeCCl3
J−CH2Cl2
J−CHF2Cl
Pressure (hPa)
0.01
0.10
1.00
10.00
100.00
1000.00
−0.4 −0.2 0.0 0.2 0.4
del (ln(J))
AMTR&
CCSR*
EMAC
GfJX
Gtbl
NIWA*
LMDZ
TUVM
UCIr
UCIJ
WACC
SLIM*
+−SDEV


J−F123
J−F141b
J−F142b
J−CH3Br
J−H1211
J−H1301
J−H2402
J−CH2Br2
J−CHBr3
Pressure (hPa)
0.01
0.10
1.00
10.00
100.00
1000.00
−0.4 −0.2 0.0 0.2 0.4
del (ln(J))
AMTR&
CCSR&
EMAC&
GfJX
Gtbl&
NIWA
LMDZ&
TUVM
UCIr
UCIJ
WACC&
SLIM&
+−SDEV
AMTR&
CCSR*
EMAC*
GfJX
Gtbl&
NIWA*
LMDZ
TUVM
UCIr
UCIJ
WACC
SLIM&
+−SDEV
AMTR&
CCSR*
EMAC*
GfJX
Gtbl
NIWA*
LMDZ
TUVM
UCIr
UCIJ
WACC
SLIM&
+−SDEV
AMTR&
CCSR*
EMAC*
GfJX
Gtbl
NIWA&
LMDZ*
TUVM
UCIr
UCIJ
WACC
SLIM&
+−SDEV
AMTR&
CCSR&
EMAC&
GfJX
Gtbl&
NIWA
LMDZ&
TUVM
UCIr
UCIJ
WACC&
SLIM&
+−SDEV
AMTR&
CCSR&
EMAC
GfJX
Gtbl&
NIWA&
LMDZ
TUVM&
UCIr
UCIJ
WACC&
SLIM&
+−SDEV
AMTR&
CCSR*
EMAC*
GfJX
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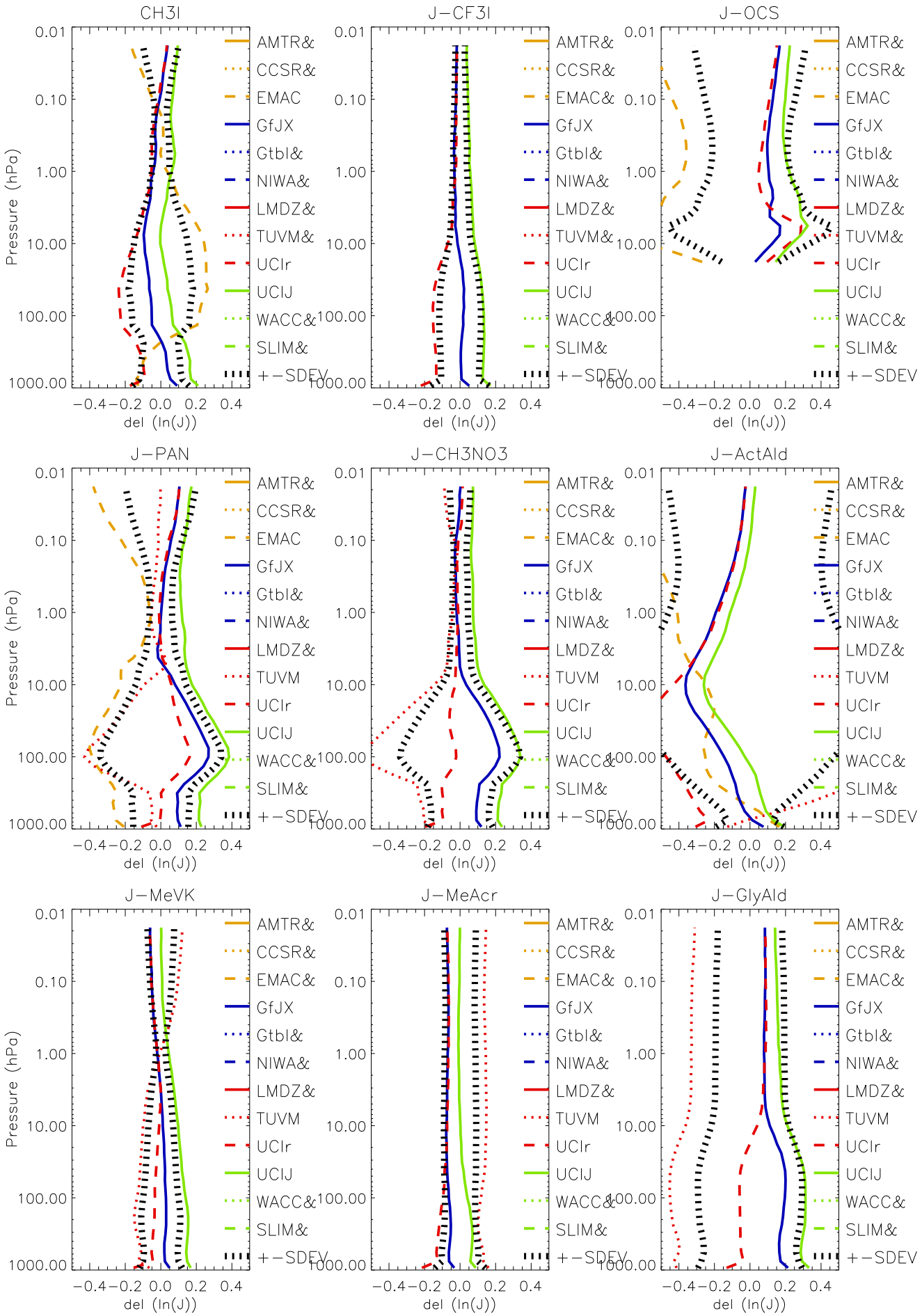
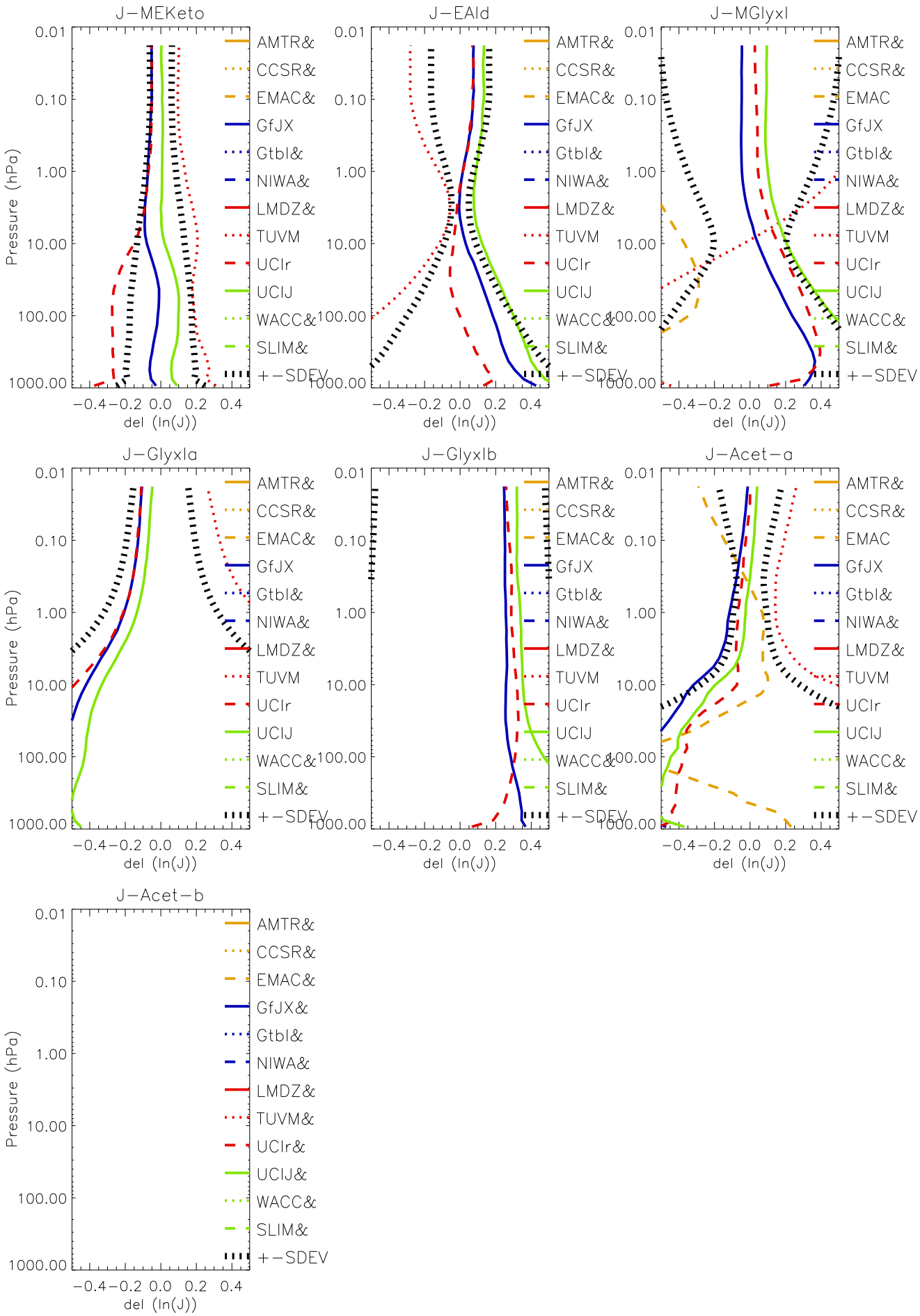
NIWA
LMDZ&
TUVM
UCIr
UCIJ
WACC&
SLIM&
+−SDEV


CH3I
J−CF3I
J−OCS
J−PAN
J−CH3NO3
J−ActAld
J−MeVK
J−MeAcr
J−GlyAld
Pressure (hPa)
0.01
0.10
1.00
10.00
100.00
1000.00
−0.4 −0.2 0.0 0.2 0.4
del (ln(J))
AMTR&
CCSR&
EMAC
EMAC&
GfJX
Gtbl&
NIWA&
LMDZ&
TUVM
TUVM&
UCIr
UCIJ
WACC&
SLIM&
+−SDEV


J−MEKeto
J−EAld
J−MGlyxl
J−Glyxla
J−Glyxlb
J−Acet−a
J−Acet−b
Pressure (hPa)
0.01
0.10
1.00
10.00
100.00
1000.00
−0.4 −0.2 0.0 0.2 0.4
del (ln(J))
AMTR&
CCSR&
EMAC&
EMAC
GfJX
GfJX&
Gtbl&
NIWA&
LMDZ&
TUVM
TUVM&
UCIr
UCIr&
UCIJ
UCIJ&
WACC&
SLIM&
+−SDEV