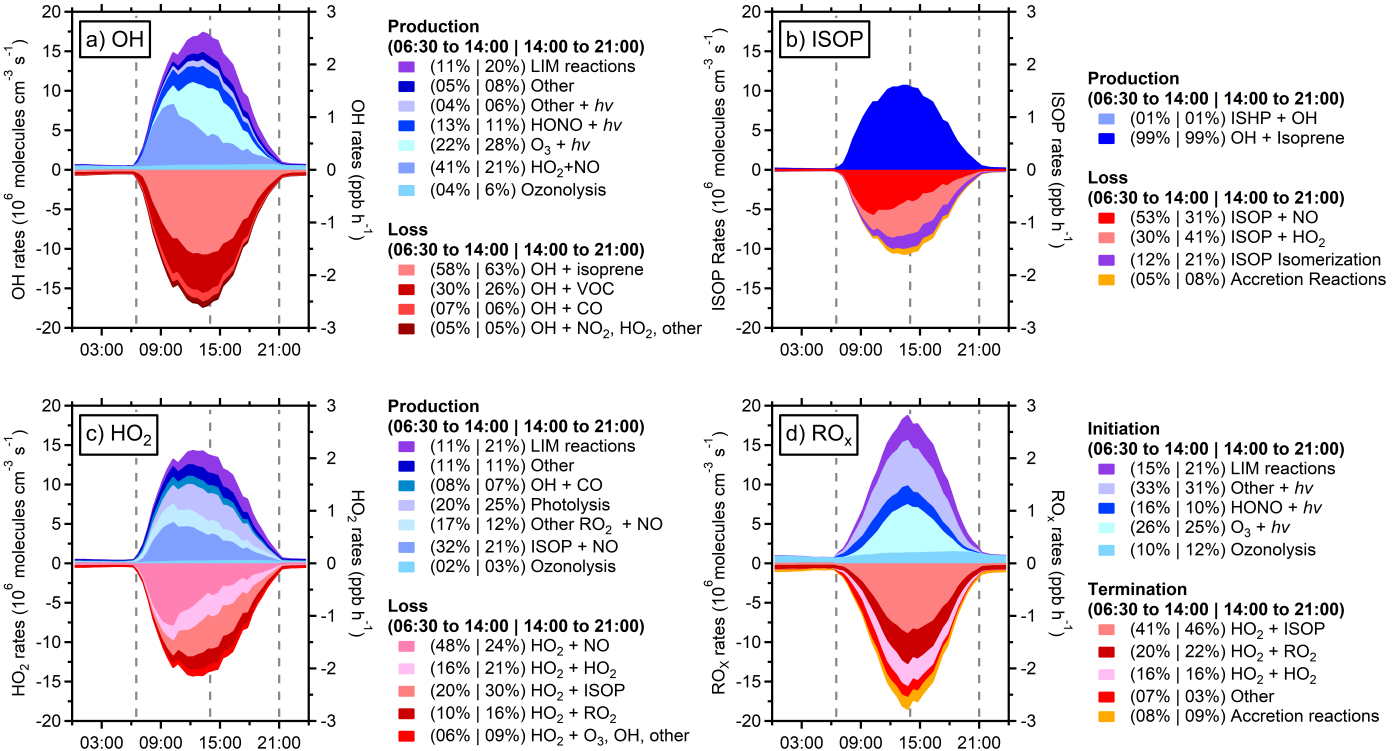
a) OH
OH rates (10^6 molecules cm^{-3} s^{-1})
OH rates (ppb h^{-1})
Production
(06:30 to 14:00 | 14:00 to 21:00)
(11% | 20%) LIM reactions
(05% | 08%) Other
(04% | 06%) Other + *hv*
(13% | 11%) HONO + *hv*
(22% | 28%) O_3 + *hv*
(41% | 21%) HO_2+NO
(04% | 6%) Ozonolysis
Loss
(06:30 to 14:00 | 14:00 to 21:00)
(58% | 63%) OH + isoprene
(30% | 26%) OH + VOC
(07% | 06%) OH + CO
(05% | 05%) OH + NO_2, HO_2, other
b) ISOP
ISOP Rates (10^6 molecules cm^{-3} s^{-1})
ISOP rates (ppb h^{-1})
Production
(06:30 to 14:00 | 14:00 to 21:00)
(01% | 01%) ISHP + OH
(99% | 99%) OH + Isoprene
Loss
(06:30 to 14:00 | 14:00 to 21:00)
(53% | 31%) ISOP + NO
(30% | 41%) ISOP + HO_2
(12% | 21%) ISOP Isomerization
(05% | 08%) Accretion Reactions
c) HO_2
HO_2 rates (10^6 molecules cm^{-3} s^{-1})
HO_2 rates (ppb h^{-1})
Production
(06:30 to 14:00 | 14:00 to 21:00)
(11% | 21%) LIM reactions
(11% | 11%) Other
(08% | 07%) OH + CO
(20% | 25%) Photolysis
(17% | 12%) Other RO_2 + NO
(32% | 21%) ISOP + NO
(02% | 03%) Ozonolysis
Loss
(06:30 to 14:00 | 14:00 to 21:00)
(48% | 24%) HO_2 + NO
(16% | 21%) HO_2 + HO_2
(20% | 30%) HO_2 + ISOP
(10% | 16%) HO_2 + RO_2
(06% | 09%) HO_2 + O_3, OH, other
d) RO_x
RO_X rates (10^6 molecules cm^{-3} s^{-1})
RO_x rates (ppb h^{-1})
Initiation
(06:30 to 14:00 | 14:00 to 21:00)
(15% | 21%) LIM reactions
(33% | 31%) Other + *hv*
(16% | 10%) HONO + *hv*
(26% | 25%) O_3 + *hv*
(10% | 12%) Ozonolysis
Termination
(06:30 to 14:00 | 14:00 to 21:00)
(41% | 46%) HO_2 + ISOP
(20% | 22%) HO_2 + RO_2
(16% | 16%) HO_2 + HO_2
(07% | 03%) Other
(08% | 09%) Accretion reactions
03:00
09:00
15:00
21:00