Observed O3 dry deposition velocity (cm/s) at Ontario site collected from (Lin et al., 2019).

|  |  |  |
| --- | --- | --- |
|  | July of 2012 | July of 2009 |
| 0:00 | 0.242 | 0.393 |
| 1:00 | 0.177 | 0.568 |
| 2:00 | 0.280 | 0.408 |
| 3:00 | 0.313 | 0.340 |
| 4:00 | 0.236 | 0.372 |
| 5:00 | 0.333 | 0.363 |
| 6:00 | 0.854 | 0.940 |
| 7:00 | 0.854 | 1.354 |
| 8:00 | 0.706 | 1.026 |
| 9:00 | 0.869 | 1.245 |
| 10:00 | 0.848 | 0.895 |
| 11:00 | 0.620 | 1.807 |
| 12:00 | 0.513 | 0.904 |
| 13:00 | 0.525 | 1.407 |
| 14:00 | 0.640 | 0.844 |
| 15:00 | 0.758 | 0.853 |
| 16:00 | 0.518 | 0.915 |
| 17:00 | 0.515 | 0.687 |
| 18:00 | 0.367 | 0.767 |
| 19:00 | 0.266 | 0.548 |
| 20:00 | 0.175 | 0.305 |
| 21:00 | 0.121 | 0.278 |
| 22:00 | 0.190 | 0.322 |
| 23:00 | 0.204 | 0.328 |

Observed isoprene emissions (mg[C]/m2/hr) at MOFLUX site collected from previous studies (Jiang et al., 2018; Potosnak et al., 2014; Seco et al., 2015; Zheng et al., 2017).

|  |  |  |
| --- | --- | --- |
|  | 2011 | 2012 |
| 6/1 | 1.11470451428231e+001 | 4.58536585365854e+000 |
| 6/2 | 1.87743574452859e+001 | 5.36585365853659e+000 |
| 6/3 | 1.82843103345459e+001 | 1.04390243902439e+001 |
| 6/4 | 1.22196910966665e+001 | 8.19512195121951e+000 |
| 6/5 | 1.95536048661220e+001 | 7.80487804878049e+000 |
| 6/6 | 1.82811616673624e+001 | 8.19512195121951e+000 |
| 6/7 | 1.96493052656688e+001 | 1.21951219512195e+001 |
| 6/8 | 1.65186713578627e+001 | 1.35609756097561e+001 |
| 6/9 | 1.33880374500567e+001 | 1.20000000000000e+001 |
| 6/10 | 2.53124217305743e+000 | -999 |
| 6/11 | 4.38838332637605e+000 | -999 |
| 6/12 | 7.68656449400680e-001 | 9.85365853658537e+000 |
| 6/13 | 6.53777804281710e+000 | 1.31707317073171e+001 |
| 6/14 | 8.68831772914306e+000 | 1.46341463414634e+001 |
| 6/15 | 3.89518754845250e+000 | 1.45365853658537e+001 |
| 6/16 | 4.96993261375157e+000 | 1.05365853658537e+001 |
| 6/17 | 1.12279563480231e+001 | 1.43414634146341e+001 |
| 6/18 | 1.27916989683344e+001 | 1.14146341463415e+001 |
| 6/19 | 1.73873218438786e+001 | 1.52195121951220e+001 |
| 6/20 | 1.05402111038225e+001 | 5.75609756097561e+000 |
| 6/21 | 6.52947701115153e+000 | 9.85365853658537e+000 |
| 6/22 | 5.45253742023973e+000 | 8.68292682926829e+000 |
| 6/23 | 6.13617985568609e+000 | 2.02926829268293e+001 |
| 6/24 | 5.15703977577673e+000 | 1.20975609756098e+001 |
| 6/25 | 1.53271393643032e+001 | 1.03414634146341e+001 |
| 6/26 | 7.40442483153438e+000 | 1.37560975609756e+001 |
| 6/27 | 5.64298407776254e+000 | 1.43414634146341e+001 |
| 6/28 | 1.36613990100781e+001 | 1.71707317073171e+001 |
| 6/29 | -999 | 1.95121951219512e+001 |
| 6/30 | 2.23634563778401e+001 | 1.83414634146341e+001 |
| 7/1 | 1.98196195360487e+001 | 1.47317073170732e+001 |
| 7/2 | 1.08211103822530e+001 | 1.46341463414634e+001 |
| 7/3 | 1.33628481125887e+001 | 1.48292682926829e+001 |
| 7/4 | 1.61978889617747e+001 | 1.31707317073171e+001 |
| 7/5 | 6.90588586081460e+000 | 1.19024390243902e+001 |
| 7/6 | 7.43467111932733e-001 | 8.87804878048781e+000 |
| 7/7 | 7.49058381537361e+000 | 9.95121951219512e+000 |
| 7/8 | 1.73672848708927e+001 | 7.41463414634146e+000 |
| 7/9 | 2.42123919136502e+001 | 8.19512195121951e+000 |
| 7/10 | 2.19617627765520e+001 | 8.68292682926829e+000 |
| 7/11 | 1.82443318027312e+001 | 1.00487804878049e+001 |
| 7/12 | 1.01259228338005e+001 | 1.03414634146341e+001 |
| 7/13 | 1.57971495020574e+001 | 1.30731707317073e+001 |
| 7/14 | 1.70675890035184e+001 | 1.09268292682927e+001 |
| 7/15 | 1.79466396326555e+001 | 1.20975609756098e+001 |
| 7/16 | 2.35201622040670e+001 | 9.95121951219512e+000 |
| 7/17 | 2.21501103226191e+001 | 8.48780487804878e+000 |
| 7/18 | 2.46916572246407e+001 | 8.00000000000000e+000 |
| 7/19 | -999 | 4.19512195121951e+000 |
| 7/20 | 2.77214383684179e+001 | 6.43902439024390e+000 |
| 7/21 | 3.00674816625917e+001 | 7.80487804878049e+000 |
| 7/22 | 3.19247182300674e+001 | 6.82926829268293e+000 |
| 7/23 | 1.66669449579581e+001 | 6.34146341463415e+000 |
| 7/24 | 1.99910787763134e+001 | 7.02439024390244e+000 |
| 7/25 | 3.01611783648399e+001 | 4.19512195121951e+000 |
| 7/26 | 3.64192975132685e+001 | 4.00000000000000e+000 |
| 7/27 | 3.68095414157076e+001 | 2.82926829268293e+000 |
| 7/28 | 2.21383743812988e+001 | -999 |
| 7/29 | 6.29389945733198e+000 | 4.78048780487805e+000 |
| 7/30 | 2.17450772258334e+001 | 7.41463414634146e+000 |
| 7/31 | 3.05460790744827e+001 | 8.68292682926829e+000 |
| 8/1 | 3.67063032977518e+001 | 3.80487804878049e+000 |
| 8/2 | 1.58740533126603e+001 | 6.63414634146342e+000 |
| 8/3 | 7.26664678871728e+000 | 8.68292682926829e+000 |
| 8/4 | 4.33161190291610e+000 | 3.41463414634146e+000 |
| 8/5 | 9.22053789731051e+000 | 3.41463414634146e+000 |
| 8/6 | 1.93905420716799e+001 | 6.82926829268293e+000 |
| 8/7 | 6.77335559663665e+000 | 8.39024390243902e+000 |
| 8/8 | 1.49874649651142e+001 | 3.31707317073171e+000 |
| 8/9 | -999 | 1.26829268292683e+000 |
| 8/10 | -999 | 2.14634146341463e+000 |
| 8/11 | -999 | 2.53658536585366e+000 |
| 8/12 | -999 | 6.82926829268293e-001 |
| 8/13 | -999 | 1.46341463414634e+000 |
| 8/14 | -999 | 3.70731707317073e+000 |
| 8/15 | -999 | 4.00000000000000e+000 |
| 8/16 | -999 | 1.46341463414634e+000 |
| 8/17 | 5.00265966962848e+000 | 2.43902439024390e+000 |
| 8/18 | -999 | 1.56097560975610e+000 |
| 8/19 | -999 | 1.65853658536585e+000 |
| 8/20 | 3.04342536823901e+000 | 2.82926829268293e+000 |
| 8/21 | 2.45548333233944e+000 | 2.73170731707317e+000 |
| 8/22 | 6.46430914186892e+000 | 3.21951219512195e+000 |
| 8/23 | 8.02795634802314e+000 | 2.73170731707317e+000 |
| 8/24 | 3.03913173117061e+000 | 1.95121951219512e+000 |
| 8/25 | 5.67876438666587e+000 | 1.26829268292683e+000 |
| 8/26 | 5.67771483093804e+000 | 2.34146341463415e+000 |
| 8/27 | 4.20967261017353e+000 | 2.73170731707317e+000 |
| 8/28 | 6.06681376349216e+000 | 2.82926829268293e+000 |
| 8/29 | 4.01187906255591e+000 | 3.02439024390244e+000 |
| 8/30 | 1.27149859860457e+001 | -999 |
| 8/31 | -999 | -999 |

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