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<https://doi.org/10.5194/acp-16-1161-2016>

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## Corrigendum to “Iodine’s impact on tropospheric oxidants: a global model study in GEOS-Chem” published in Atmos. Chem. Phys., 16, 1161–1186, 2016

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Published: 16 February 2016

We have been made aware of a typographic error and a point where a clarification on the representation of information could be improved. First, in Table 4 an additional term ( $\frac{E_a}{RT}$ ) was erroneously present in the second sentence of the caption. The fourth column and final sentence of the caption are therefore no longer required. The updated caption and table are shown below.

Second, in Sect. 2.4. (“Photolysis rates”) the cross-section/quantum yield used for  $I_2O_X$  ( $X = 2, 3, 4$ ) was not clear. Therefore, the sentence has been updated (New) for clarity as seen below.

Old: “For  $I_2O_X$  ( $X = 2, 3, 4$ ) we assume the same absorption cross section as  $INO_3$ , an approach used previously (Bloss et al., 2010). For most species ( $I_2$ , HOI, IO, OIO, INO,  $INO_2$ ,  $I_2O_2$ ,  $CH_3I$ ,  $CH_2I_2$ ,  $CH_2IBr$  and  $CH_2ICl$ ) we assume a quantum yield of 1, but for  $INO_3$  we use a quantum yield of 0.21 (Sander et al., 2011).”

New: “For  $I_2O_X$  ( $X = 2, 3, 4$ ) we assume the same absorption cross-section as  $INO_3$ , an approach used previously (Bloss et al., 2010). For most species ( $I_2$ , HOI, IO, OIO, INO,  $INO_2$ ,  $CH_3I$ ,  $CH_2I_2$ ,  $CH_2IBr$  and  $CH_2ICl$ ) we assume a quantum yield of 1, but for  $INO_3$  we use a quantum yield of 0.21 (Sander et al., 2011). We assume  $I_2O_X$  ( $X = 2, 3, 4$ ) to have the same quantum yield as  $INO_3$ .”

**Table 4.** Termolecular iodine reactions. The lower pressure limit rate ( $k_0$ ) is given by  $A_0 \cdot (\frac{300}{T})^x$ . The high pressure limit is given by  $k_\infty$ .  $F_c$  characterises the fall-off curve of the reaction as described by Atkinson et al. (2007).

Rxn ID	Reaction	$A_0$ $\text{cm}^6 \text{ molecules}^{-2} \text{ s}^{-1}$	$x$	$k_\infty$ $\text{cm}^3 \text{ molecules}^{-1} \text{ s}^{-1}$	$F_c$	Citation
T1	$\text{I} + \text{NO} + \text{M} \rightarrow \text{INO} + \text{M}$	$1.80 \times 10^{-32}$	1	$1.70 \times 10^{-11}$	0.60	Atkinson et al. (2007)
T2	$\text{I} + \text{NO}_2 + \text{M} \rightarrow \text{INO}_2 + \text{M}$	$3.00 \times 10^{-31}$	1	$6.60 \times 10^{-11}$	0.63	Atkinson et al. (2007)
T3	$\text{IO} + \text{NO}_2 + \text{M} \rightarrow \text{INO}_3 + \text{M}$	$7.70 \times 10^{-31}$	5	$1.60 \times 10^{-11}$	0.40	Atkinson et al. (2007)