Tellus SERIES B CHEMICAL AND PHYSICAL METEOROLOGY
PUBLISHED BY THE INTERNATIONAL METEOROLOGICAL INSTITUTE IN STOCKHOLM

ERRATUM

Koji Iwano, Naohisa Takagaki, Ryoichi Kurose and Satoru Komori. 2013. Mass transfer velocity across the breaking air–water interface at extremely high wind speeds. *Tellus B* 2013, **65**, 21341, http://dx.doi.org/10.3402/tellusb.v65i0.21341

Three velocities of u^*, U_{10} and U_∞ were mistakenly overestimated by 9 ~ 19% in the evasion experiments. The mass transfer velocity k_L and correct velocities listed in Table 1 should be used in all figures excluding figures 1 and 7. The correct correlations of eqs. (9), (10) and (11) between velocities and mass transfer velocity should be replaced by:

$$k_L = \begin{cases} 76.94u^* & (u^* < 1.70) \\ 21.62u^{*3.4} & (u^* \geq 1.70) \end{cases}, \quad (9)$$

$$k_L = \begin{cases} 1.61U_{10}^{1.25} & (U_{10} < 33.6) \\ 8.43 \times 10^{-4} U_{10}^{3.4} & (U_{10} \geq 33.6) \end{cases}, \quad (10)$$

$$k_L = \begin{cases} 1.54U_\infty^{1.5} & (U_\infty < 19.3) \\ 4.17 \times 10^{-2} U_\infty^{2.72} & (U_\infty \geq 19.3) \end{cases}. \quad (11)$$

Eventually, the correlation between k_L and U_∞ almost corresponds to the correlation curve of Wanninkhof and McGillis (1999) at high wind speeds as shown in the correct figure 10.

Table 1. Mass transfer velocity and correct velocities

u^* (m/s)	U_{10} (m/s)	U_∞ (m/s)	k_L (cm/h)
0.149	4.79	3.81	11.0
0.299	8.38	6.07	21.8
0.487	12.4	8.40	31.9
0.704	16.6	10.7	47.8
0.967	21.4	13.3	69.8
1.59	31.9	18.5	138
2.01	39.8	23.9	234
2.41	47.7	29.9	425
3.02	59.7	39.6	923

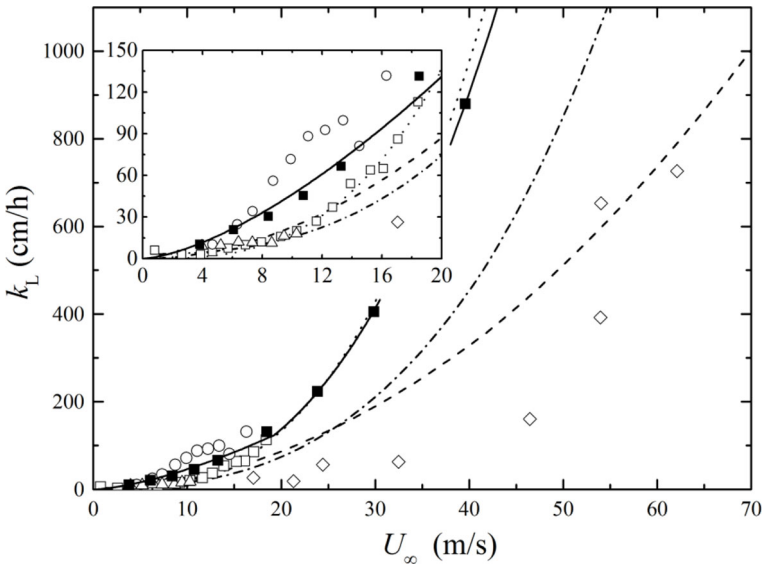

Fig. 10. Comparison of k_L against U_∞ between laboratory and field measurements. Symbols and lines as in Fig. 8. A solid line shows the correct correlation curve of eq. (11) normalized to $Sc = 660$ for the present laboratory measurements.

Citation: Tellus B 2014, **66**, 25233, http://dx.doi.org/10.3402/tellusb.v66.25233