ERRATUM: "THE OPTICAL DEPTH OF HI REGIONS IN THE MAGELLANIC CLOUDS" (2012, ApJ, 755, 40)

E. W. Pellegrini¹, M. S. Oey¹, P. F. Winkler², S. D. Points³, R. C. Smith³, A. E. Jaskot¹, and J. Zastrow¹

Department of Astronomy, University of Michigan, 500 Church Street, Ann Arbor, MI 48109, USA

² Department of Physics, Middlebury College, Middlebury, VT 05753, USA

³ Cerro Tololo Inter-American Observatory, National Optical Astronomy Observatory, Casilla 603, La Serena, Chile Received 2012 September 21; published 2013 March 18

Key words: catalogs – H II regions – ISM: structure – Magellanic Clouds – radiative transfer – stars: massive *Online-only material:* figure sets, machine-readable tables

In this erratum, we publish corrections to both the image catalog and the tables published in Appendix B of "The Optical Depth of H_{II} Regions in the Magellanic Clouds" (2012, ApJ, 755, 40). These were bookkeeping errors in compiling the catalog before publication and do not affect the analysis and conclusions of the paper.

There were a number of problems with Figures 23 and 24, as follows. All of the scale bars in Figure 24 had incorrect labels, which were based on an incorrect value for the SMC distance. In both Figures 23 and 24, there were some scale bars that were unreadable. Some subfigures had incorrect region outlines, labels, identifications, or line type. There were also three missing subfigures. All of these problems have been corrected. As in the original paper, Figures 23 and 24 are presented as online material.

We also correct a number of items in Tables 5 and 6. For a few objects, the rows had been interchanged and the listed parameters (Type, $N(H_1)$, and $L(H\alpha)$) corresponded to those for a different object. There were additional errors in the "Other ID" assignments in Column 2; in some cases, the assigned DEM sub-numbers did not agree with the labeled figures. To limit confusion, we remove all DEM sub-numbers from the catalog. We also more consistently replace the Henize (1956) identifications with the DEM (Davies et al. 1976) catalog numbers and revise any incorrect identifications. Finally, we correct the coordinates in a few cases. The revised tables appear as online material; typeset PDF versions can be found at http://arxiv.org/abs/1202.3334.

The following objects are affected by changes in these tables, figures, or both. In the LMC: MCELS-L23, L25, L50, L51, L63, L70, L98, L112, L130, L134, L135, L136, L149, L163, L166, L172, L178, L205, L215, L246, L257, L265, L270, L285, L288, L291, L292, L302, L316, L335, L336, L337, L347, L361, L371, L373, L374, L375, L376, L394, L395, L400, L401; and in the SMC: MCELS-S3, S6, S13, S14, S17, S23, S27, S28, S35, S50, S54, S55, S57, S60, S62, S63, S66, S79, S90, S91, S93, S94, S102, S103, S104, S105, S108, S112, S115, S116, S122, S126, S130, S137, S142, S143, S147, S148, S150, S151, S155, S164, S165, S166, S175, S179, S180, S190, S195, S205, S211, S213. Again, note also that all SMC scale bars were revised. We also caution that region vertices, which may be mistaken for stars, appear in the subfigures for: MCELS-L1, L23, L163, L174, L200, L211, L262, L276, L324, L336, L398, and L401



 $\label{eq:Figure 23.} \ H\alpha(left) \ and \ [S \ II]/[O \ III] \ (right).$ (The complete figure set (401 images) is available in the online journal.)



Figure 24. $H\alpha(left)$ and [SII]/[OIII] (right). (The complete figure set (214 images) is available in the online journal.)

Table 5 MCELS LMC H II Region Catalog

Object ID	Other ID ^a	R.A. (J2000) (h:m:s)	Decl. (d:m:s)	Type ^b	$N({\rm H~{\rm I}})$ (10 ²¹ cm ⁻²)	$L(H\alpha)$ (erg s ⁻¹)
MCELS-L2		04:45:04.8	-69:04:25	2	1.90	35.27
MCELS-L3	DEM L1	04:47:19.5	-69:18:27	2	1.89	36.41
MCELS-L4	DEM L2	04:48:53.7	-69:09:38	1	3.24	36.51
MCELS-L5	DEM L6	04:49:06.8	-69:20:26	1	2.71	36.53

Notes.

^a Identifiers in Column 2 are from Davies et al. (1976) (DEM), Bica et al. (1999) (BSDL), or Henize (1956) (N).

^b Optical depth classifications in Column 5 are: (0) indeterminate, (1) optically thick, (2) blister, (3) optically thin, and (4) shocked nebulae.

^c Local H α backgrounds could not be unambiguously determined for L measurements of these objects due to a high DIG luminosity, even though structure is seen in [S II]/[O III]. Therefore, the background was set to the surface brightness of the outermost area of the LMC observed by the MCELS survey, as discussed in the text.

^d Object includes separately cataloged substructure in the line of sight. Photometry for the substructure is not included in the photometry of the larger region. (This table is available in its entirety in a machine-readable form in the online journal. A portion is shown here for guidance regarding its form and content.)

MCELS SMC H II Region Catalog									
Object ID	Other ID ^a	R.A. (J2000) (h:m:s)	Decl. (d:m:s)	Type ^b	$N({\rm H}{\rm I})$ (10 ²¹ cm ⁻²)	$L(\mathrm{H}\alpha)$ (erg s ⁻¹)			
MCELS-S1	DEM S1	00:31:41.1	-73:47:39	3	2.38	36.30			
MCELS-S2	DEM S2	00:36:59.0	-72:59:42	1	2.66	36.67			
MCELS-S3		00:39:59.6	-73:33:30	1	2.88	35.88			
MCELS-S4	DEM S5	00:41:02.6	-73:36:20	1	3.88	36.21			
MCELS-S5		00:41:39.6	-73:24:26	2	4.94	34.76			

Table 6	
MCELS SMC H II Region (Catalog

Notes.

^a Identifiers in Column 2 are Davies et al. (1976) (DEM), Bica et al. (1999) (BSDL), or Henize (1956) (N).

^b Optical depth classifications listed in Column 5 are: (0) indeterminate, (1) optically thick, (2) blister, (3) optically thin, and (4) shocked nebulae.

^c Object identified in Ye et al. (1995).

^d Object identified in Ye et al. (1991).

^e Object includes separately cataloged substructure in the line of sight. Photometry for the substructure is not included in the photometry of the larger region.

(This table is available in its entirety in a machine-readable form in the online journal. A portion is shown here for guidance regarding its form and content.)

REFERENCES

- Bica, E. L. D., Schmitt, H. R., Dutra, C. M., & Oliveira, H. L. 1999, AJ, 117, 238

- Davies, R. D., Elliott, K. H., & Meaburn, J. 1976, MNRAS, 81, 89
 Henize, K. G. 1956, ApJS, 2, 315
 Ye, T., Turtle, A. J., & Kennicutt, R. C., Jr. 1991, MNRAS, 249, 722
 Ye, T. S., Amy, S. W., Wang, Q. D., Ball, L., & Dickel, J. 1995, MNRAS, 275, 1218