Model Change Bulletin (MCB) 6 - AERMET version 15181 changes by change type.

Listed with each change are the affected AERMET stages.

BUG FIXES

Item	Modification	Stage
1	Modified subroutines UCALST and MPPBL to incorporate a constant value of	3
	THSTAR of 0.08, full inclusion of the displacement height, and a modified	
	formulation for Monin-Obukhov length for the ADJ_U* option based on Qian and	
	Venkatram (BLM, v138, 2011). Subroutine UCALST was also modified to adjust	
	USTAR for wind speeds below the "critical" wind speed.	
2	Modified subroutine BULKRI to correct the calculation of CDN to use	3
	ZREF(IHR)/Z0(IHR) instead of Z2/Z0(IHR). Subroutine BULKRI was also	
	modified to use BETAM = 0.5 for the ADJ_U* option instead of 0.47 .	

ENHANCEMENTS

Item	Modification	Stage
1	Modified subroutine BULKRI to incorporate additional refinements to the ADJ_U*	3
	Beta option in conjunction with the Bulk Richardson Number (BULKRN) option,	
	based on Luhar and Raynor (BLM, v132, 2009), including a more refined method	
	for calculating THSTAR, and extending its applicability for very stable/low wind	
	conditions.	
2	Modified subroutine MERGE to include the year in the Stage 2 table of Daily	2
	Output Statistics	
3	Subroutine GET620 was modified to issue a message if the UALOC in the upper	1
	data file does not match UALOC specified on the LOCATION keyword. This	
	allows users to track when data from alternative representative upper air stations are	
	used in conjunction with the UPPERAER tool.	

MISCELLANEOUS

Item	Modification	Stage
1	Modified several subroutines with minor or cosmetic changes to the documentation	All
	of user options and error handling and reporting.	