To cope with the new model for soil erosion, one needs to introduce new functions, new variables, as well as to modify some of the already existing functions.

The following tables contain the new functions, new variables, some modifications introduced in the code with short description for them.

Function	Called by	Description	
qroute_overland()	erodedepo()	evaluates the water mass flux	
		and suspended sedim mass	
		flux taking into account the	
		density of the cover plant	
erode_overland(int)	erodedepo()	performs soil erosion by con-	
		sidering the influence of the	
		cover plant on the soil erosion	
		rate	
call_veg1_to_veg2_sds()	erodedepo()	calculates the hydrologic pa-	
		rameters by taking into ac-	
		count the vegetation	
modificare_mannings_sds()			

Table 1: New functions

Function	Description	
erodedepo()	main function in code	
$depth_update()$	performs updates for the water depth and the	
	mass of suspended sediment	
initialise()	sets the values of parameters and the values	
	of some data entry	
zero_values()	intiallizes some data entry	
drawwater()	draws water sediment and another stuff	

Table 2: Modified functions

1000		
Variable	Used in	Description
int no_suspended_frac_sds	erode_overland()	number of sediment
		size classes
double msds_star		parameters in the ero-
		sion models
double energJ		
double power_stream_frac		
double [] ratio_frac		
double[,,] qxsds, qysds	erode_overland()	mass flux for all the
		sediment size classes
double[,] mannings_sds	qroute_overland()	genarized Manning
		number to include
		vegetation
double[,] solidity_sds		vegetation parameters
double Diam_veg_sds		
bool sus-	qroute_overland()	size class partition of
$pended_frac_model_sds$		suspended sediment
double[,,] ssus	qroute_overland(),	suspended sediment
	$erode_overland()$	partitioned on size
		classes
double[,,] msds		the mass of the sedi-
		ment in bed soil parti-
		tioned on size classes
double[,,] msds_tot		variation of the total
		mass of the sediment
		in soil bed
double[.] masa erodata sds		

Table 3: New variables