

STOMP-W Tested Options (Released version 04-30-2007)

Card_Name	Option_Name	Date_of_Completion
Aqueous relative permeability	Burdine	Oct-2006
	IJK indexing	Oct-2006
	JKI indexing	Oct-2006
	KIJ indexing	Oct-2006
	Mualem	Oct-2006
Boundary conditions	Aqueous Conc. (Solute)	Nov-2006
	Dirichlet (Aqueous)	Oct-2006
	File	Oct-2006
	Free Gradient (Aqueous)	Oct-2006
	Hydraulic Gradient (Aqueous)	Oct-2006
	Inflow Aqueous (Solute)	Jan-2007
	Inflow Volumetric (Solute)	Jan-2007
	Inflow-Outflow Aqueous (Solute)	Nov-2006
	Inflow-Outflow Volumetric (Solute)	Nov-2006
	Initial Condition (Aqueous)	Oct-2006
	Initial Condition (Solute)	Nov-2006
	Neumann (Aqueous)	Oct-2006
	Outflow (Aqueous)	Oct-2006
	Outflow (Solute)	Nov-2006
	Saturated (Aqueous)	Oct-2006
	Seepage Face (Aqueous)	Oct-2006
	Unit Gradient (Aqueous)	Oct-2006
	Volumetric Conc. (Solute)	Nov-2006
	X-Y-Z Hydraulic Gradient	Jan-2007
	X-Y-Z Seepage Face (Aqueous)	Jan-2007

Card_Name	Option_Name	Date_of_Completion
Boundary conditions	Zero Flux (Aqueous)	Oct-2006
	Zero Flux (Solute)	Nov-2006
Directional aqueous relative permeability	Mualem	Oct-2006
	Mualem Modified	Oct-2006
Grid card	Cartesian	Oct-2006
	Cylindrical	Oct-2006
	Reference Point Cartesian	Oct-2006
	Uniform Cartesian	Oct-2006
Hydraulic properties	Explicit declaration	Oct-2006
	hc	Oct-2006
	IJK indexing	Oct-2006
	JKI indexing	Oct-2006
	KIJ indexing	Oct-2006
Inactive nodes	Explicit declaration	Oct-2006
	No inactive nodes	Oct-2006
Initial conditions	Aqueous Pressure	Oct-2006
	Aqueous Pressure Overwrite	Oct-2006
	Aqueous Saturation	Oct-2006
	Aqueous Saturation	Oct-2006
	Moisture Content	Oct-2006
	Moisture Content Overwrite	Oct-2006
	Solute Aqueous Volumetric Conc	Nov-2006
	Solute Aqueous Volumetric Conc Overwrite	Nov-2006
	Solute Volumetric Conc	Nov-2006
Mechanical properties	Explicit declaration	Oct-2006
	IJK indexing	Oct-2006
	JKI indexing	Oct-2006
	KIJ indexing	Oct-2006

Card_Name	Option_Name	Date_of_Completion
Output control	Aqueous density	Oct-2006
	Apparent aqueous saturation	Oct-2006
	Aqueous courant [number]	Oct-2006
	Aqueous fracture saturation	Oct-2006
	Aqueous gauge pressure	Oct-2006
	Aqueous hydraulic head	Oct-2006
	Aqueous matrix saturation	Oct-2006
	Aqueous moisture cont[ent]	Oct-2006
	Aqueous pressure	Oct-2006
	Aqueous relative perm[ability]	Oct-2006
	Aqueous saturation	Oct-2006
	Aqueous viscosity	Oct-2006
	Diffusive porosity	Oct-2006
	Effective trapped gas saturation	Oct-2006
	Gas gauge pressure	Oct-2006
	Gas pressure	Oct-2006
	Gas saturation	Oct-2006
	Integrated water mass*	Oct-2006
	Matric potential	Oct-2006
	Matrix pressure	Oct-2006
	Phase condition	Oct-2006
	Rock/Soil type	Oct-2006
	Scanning path	Oct-2006
	Solute aqueous conc[entration]	Oct-2006
	Solute aqueous mole frac[tion]	Oct-2006
	Solute integrated aqueous	Oct-2006
	Solute integrated mass	Oct-2006
	Solute inventory	Jan-2007

Card_Name	Option_Name	Date_of_Completion	
Output control	Solute source[integral]	Oct-2006	
	Solute volumetric conc[entrations]	Oct-2006	
	Temperature	Oct-2006	
	Total water mass	Oct-2006	
	Trapped gas saturation	Oct-2006	
	Water mass source rate	Oct-2006	
	X aqueous relative permeability	Oct-2006	
	X aqueous vol[umetric flux]	Oct-2006	
	X solute flux	Nov-2006	
	xnc aqueous vol[umetric flux (node centered)]	Oct-2006	
	Y aqueous relative permeability	Oct-2006	
	Y aqueous vol[umetric flux]	Oct-2006	
	Y solute flux	Nov-2006	
	ync aqueous vol[umetric flux (node centered)]	Oct-2006	
	Z aqueous relative permeability	Oct-2006	
	Z aqueous vol[umetric flux]	Oct-2006	
	Z solute flux	Nov-2006	
	znc aqueous vol[umetric flux (node centered)]	Oct-2006	
	Rock/Soil zonation	Explicit declaration	Oct-2006
		Formatted File	Jan-2007
IJK indexing		Oct-2006	
JKI indexing		Oct-2006	
KIJ indexing		Oct-2006	
Unformatted File		Oct-2006	
Saturation function	Brooks and Corey (BC)	Oct-2006	
	IJK indexing	Oct-2006	
	JKI indexing	Oct-2006	
	KIJ indexing	Oct-2006	

Card_Name	Option_Name	Date_of_Completion
Saturation function	Van Genuchten (VG)	Oct-2006
Simulation title	Simulation title inputs	Oct-2006
Solute/Fluid interactions	Constant Diffusion	Nov-2006
	Continuous Solute-Aqueous Partition	Nov-2006
	Conventional Diffusion	Nov-2006
	Noncontinuous Solute-Aqueous Partition	Nov-2006
	Radioactive Decay	Nov-2006
Solute/Porous media interactions	Explicit declaration	Nov-2006
	Longitudinal Dispersivity	Nov-2006
	Macrodispersivity Enhancement Factor	Nov-2006
	Partition Coefficient	Nov-2006
	Transverse Dispersivity	Nov-2006
Solution control	Normal	Oct-2006
	Normal No Flow	Nov-2006
	Restart	Oct-2006
	Restart File	Oct-2006
	Superbee Transport	Nov-2006
	Transport	Nov-2006
	Transport Courant	Nov-2006
	Transport Vadose Courant	Nov-2006
	TVD Transport	Nov-2006
	Source card	Aqueous Mass
Aqueous Mass Density		Oct-2006
Aqueous Volumetric		Oct-2006
Aqueous Volumetric Density		Oct-2006
Flow Well no volume		Apr-2007
No Energy Source		Nov-2006
No Gas Source		Oct-2006

Card_Name	Option_Name	Date_of_Completion
Source card	Solute	Nov-2006
	Solute Density	Nov-2006
	Solute Inventory	Jan-2007
Surface flux	Aqueous Mass	Oct-2006
	Aqueous Volumetric	Oct-2006
	File	Oct-2006
	Solute	Nov-2006

STOMP-W Tested Unintended Use (Released version 04-30-07)

Card_Name	Test_Description	Date_Of_Completion
Aqueous relative permeability	using IJK Indexing, while RSZ card does not	Nov-2006
	wrong rock/soil group names	Oct-2006
Boundary conditions	the number of bc domains < actual inputs	Oct-2006
	the number of bc domains > actual inputs	Oct-2006
Grid card	missed one comma	Oct-2006
	typo on Cylindrical	Oct-2006
Hydraulic properties	using IJK Indexing, while RSZ card does not	Oct-2006
Inactive nodes	I-End index > domain size	Oct-2006
	the number of inactive node domains < actual inputs	Oct-2006
	the number of inactive node domains > actual inputs	Oct-2006
Initial conditions	moisture content > maximum allowed value	Oct-2006
	saturation factor > 1.0	Oct-2006
Mechanical properties	using IJK Indexing, while RSZ card does not	Oct-2006
Output control	the number of plot file variables < actual inputs	Oct-2006
	the number of plot file variables > actual inputs	Oct-2006
	the number of reference variables < actual inputs	Oct-2006
	the number of reference variables > actual inputs	Oct-2006
Rock/Soil zonation	the number of rock/soil type < actual inputs	Oct-2006
	the number of rock/soil type > actual inputs	Oct-2006
Saturation function	using IJK Indexing, while RSZ card does not	Nov-2006
Simultation title	appended a comma sign at the end of first user name	Oct-2006
	more than 132 charcters in the note line	Oct-2006
	the number of note lines < actual inputs	Oct-2006
	the number of note lines > actual inputs	Oct-2006
Solute/Fluid interactions	the number of solutes < actual inputs	Oct-2006

Card_Name	Test_Description	Date_Of_Completion
Solute/Fluid interactions	the number of solutes > actual inputs	Oct-2006
Solute/Porous media interactions	wrong rock/soil names	Oct-2006
Solution control	the number of execution time periods < actual inputs	Oct-2006
	the number of execution time periods > actual inputs	Oct-2006
	two execution time periods overlap	Oct-2006
Source card	the number of source domain < actual inputs	Oct-2006
	the number of source domain > actual inputs	Oct-2006
Surface flux	“solute aqueous mass” flux type	Oct-2006
	“solute aqueous volumetric concentration” flux type	Oct-2006
	the number of surface flux inputs < actual inputs	Oct-2006
	the number of surface flux inputs > actual inputs	Oct-2006

STOMP-WA Tested Options (Released version 04-30-07)

Card_Name	Option_Name	Date_of_Completion
Aqueous relative permeability	Burdine	Nov-2006
	IJK indexing	Nov-2006
	JKI indexing	Nov-2006
	KIJ indexing	Nov-2006
	Mualem	Nov-2006
Boundary conditions	Aqueous Conc. (Solute)	Nov-2006
	Dirichlet (Aqueous)	Nov-2006
	Dirichlet (Gas)	Jan-2007
	Dirichlet (Gas)	Nov-2006
	Hydraulic Gradient (Aqueous)	Nov-2006
	Hydraulic Gradient (Gas)	Nov-2006
	Inflow Aqueous (Solute)	Feb-2007
	Inflow Volumetric (Solute)	Feb-2007
	Inflow-Outflow Aqueous (Solute)	Nov-2006
	Inflow-Outflow Volumetric (Solute)	Nov-2006
	Initial Condition (Aqueous)	Nov-2006
	Initial Condition (Gas)	Nov-2006
	Initial Condition (Solute)	Nov-2006
	Neumann (Aqueous)	Nov-2006
	Neumann (Gas)	Nov-2006
	Outflow (Solute)	Nov-2006
	Saturated (Aqueous)	Nov-2006
	Seepage Face (Aqueous)	
	Unit Gradient (Aqueous)	Nov-2006
	Unit Gradient (Gas)	Nov-2006
Volumetric Conc. (Solute)	Nov-2006	

Card_Name	Option_Name	Date_of_Completion
Boundary conditions	Zero Flux (Aqueous)	Nov-2006
	Zero Flux (Gas)	Nov-2006
	Zero Flux (Solute)	Nov-2006
Directional aqueous relative permeability	Mualem	Nov-2006
Gas relative permeability	Burdine	Nov-2006
	Constant	Nov-2006
	Mualem	Nov-2006
Grid card	Cartesian	Nov-2006
	Cylindrical	Nov-2006
	Reference Point Cartesian	Nov-2006
	Uniform Cartesian	Nov-2006
Hydraulic properties	Explicit declaration	Nov-2006
	hc	Nov-2006
	IJK indexing	Nov-2006
	JKI indexing	Nov-2006
	KIJ indexing	Nov-2006
Inactive nodes	Explicit declaration	Nov-2006
	No inactive nodes	Nov-2006
Initial conditions	Aqueous Dissolved Air Mass Fraction	
	Aqueous Dissolved Air Mass Fraction Overwrite	
	Aqueous Dissolved Air Mole Fraction	
	Aqueous Dissolved Air Mole Fraction Overwrite	
	Aqueous Dissolved Air Relative Saturation	
	Aqueous Dissolved Air Relative Saturation	Nov-2006
	Aqueous Dissolved Air Relative Saturation Overwrite	
	Aqueous Pressure	Nov-2006
	Aqueous Saturation	Nov-2006
Gas Pressure	Nov-2006	

Card_Name	Option_Name	Date_of_Completion
Initial conditions	Gas Pressure Overwrite	Nov-2006
	Saturation Overwrite	Nov-2006
	Solute Aqueous Volumetric Conc	Nov-2006
	Solute Aqueous Volumetric Conc Overwrite	Nov-2006
	Solute Volumetric Conc	Nov-2006
Mechanical properties	Explicit declaration	Nov-2006
	IJK indexing	Nov-2006
	KJI indexing	Nov-2006
	KIJ indexing	Nov-2006
Output control	Aaqueous density	Nov-2006
	Air aqueous conc[entration]	Nov-2006
	Air aqueous mass frac[tion]	Nov-2006
	Air gas conc[entration]	Nov-2006
	Air gas mass frac[tion]	Nov-2006
	Air gas mole frac[tion]	Nov-2006
	Air mass source int[egral]	
	Air mass source rate	
	Air partial pressure	Nov-2006
	Apparent aqueous saturation	Nov-2006
	Aqueous courant [number]	Nov-2006
	Aqueous fracture saturation	Nov-2006
	Aqueous gauge pressure	Nov-2006
	Aqueous hydraulic head	Nov-2006
	Aqueous matrix saturation	Nov-2006
	Aqueous moisture cont[ent]	Nov-2006
	Aqueous pressure	Nov-2006
	Aqueous relative perm[eability]	Nov-2006
	Aqueous saturation	Nov-2006

Card_Name	Option_Name	Date_of_Completion
Output control	Diffusive porosity	Nov-2006
	Dissolved Air saturation	Nov-2006
	Effective trapped gas saturation	
	Gas courant [number]	Nov-2006
	Gas density	Nov-2006
	Gas fracture saturation	
	Gas gauge pressure	Nov-2006
	Gas hydraulic head	Nov-2006
	Gas matrix saturation	Nov-2006
	Gas pressure	Nov-2006
	Gas relative perm[eability]	Nov-2006
	Gas saturation	Nov-2006
	Integrated Air mass*	Nov-2006
	Integrated aqueous Air [mass]*	Nov-2006
	Integrated gas Air [mass]*	Nov-2006
	Integrated gas water [mass] *	Nov-2006
	Integrated trapped gas Air*	Nov-2006
	Integrated water mass*	Nov-2006
	Matric potential	Nov-2006
	Phase condition	Nov-2006
	Rock/Soil type	Nov-2006
	Solute aqueous conc[entration]	Nov-2006
	Solute aqueous mole frac[tion]	Nov-2006
	Solute integrated mass	Nov-2006
	Solute inventory	Nov-2006
	Solute source[integral]	Nov-2006
	Solute volumetric conc[entration]	Nov-2006
	Temperature	Nov-2006

Card_Name	Option_Name	Date_of_Completion	
Output control	Total Air mass	Jan-2007	
	Total water mass	Nov-2006	
	Trapped gas saturation		
	Trapped gas saturation	Nov-2006	
	Water aqueous conc[entration]	Nov-2006	
	Water aqueous mass frac[tion]	Nov-2006	
	Water gas conc[entration]	Nov-2006	
	Water gas mass frac[tion]	Nov-2006	
	Water gas mole frac[tion]	Nov-2006	
	Water mass source int[egral]		
	Water mass source rate	Nov-2006	
	Water vapor partial pressure	Nov-2006	
	X aqueous vol[umetric flux]	Nov-2006	
	X gas vol[umetric flux]		
	X solute flux	Nov-2006	
	xnc aqueous vol[umetric flux (node centered)]	Nov-2006	
	xnc gas vol[umetric flux (node centered)]		
	Y aqueous vol[umetric flux]	Nov-2006	
	Y gas vol[umetric flux]		
	Y solute flux	Nov-2006	
	ync aqueous vol[umetric flux (node centered)]	Nov-2006	
	ync gas vol[umetric flux (node centered)]		
	Z aqueous vol[umetric flux]	Nov-2006	
	Z gas vol[umetric flux]	Nov-2006	
	Z solute flux	Nov-2006	
	znc aqueous vol[umetric flux (node centered)]	Nov-2006	
	znc gas vol[umetric flux (node centered)]	Nov-2006	
	Rock/Soil zonation	Explicit declaration	Nov-2006

Card_Name	Option_Name	Date_of_Completion
Rock/Soil zonation	Formatted File	Jan-2007
	IJK indexing	Nov-2006
	JKI indexing	Nov-2006
	KIJ indexing	Nov-2006
	Unformatted File	Nov-2006
Saturation function	Brooks and Corey (BC)	Nov-2006
	IJK indexing	Nov-2006
	JKI indexing	Nov-2006
	KIJ indexing	Nov-2006
	Van Genuchten (VG)	Nov-2006
Simulation title	Simulation title inputs	Nov-2006
Solute/Fluid interactions	Continuous Solute-Aqueous Partition	Nov-2006
	Conventional Diffusion	Nov-2006
	Noncontinuous Solute-Aqueous Partition	Nov-2006
	Radioactive Decay	Nov-2006
Solute/Porous media interactions	Explicit declaration	Nov-2006
	Longitudinal Dispersivity	Nov-2006
	Partition Coefficient	Nov-2006
	Transverse Dispersivity	Nov-2006
Solution control	Normal	Nov-2006
	Normal No Flow	Nov-2006
	Restart	Nov-2006
	Restart File	Nov-2006
	Superbee Transport	Nov-2006
	Transport	Nov-2006
	Transport Courant	Nov-2006
	Transport Vadose Courant	Nov-2006
TVD Transport	Nov-2006	

Card_Name	Option_Name	Date_of_Completion	
Solution control	Zero Aqueous Diffusion	Nov-2006	
Source card	Aqueous Mass	Nov-2006	
	Aqueous Volumetric	Nov-2006	
	Gas mass mass fraction	Jan-2007	
	Gas mass relative humidity	Jan-2007	
	Gas volumetric mass fraction	Jan-2007	
	Gas volumetric relative humidity	Jan-2007	
	No Aqueous Source	Nov-2006	
	No Gas Source	Nov-2006	
	No Solute Source	Nov-2006	
	Solute	Nov-2006	
	Solute Density	Nov-2006	
	Surface flux	Aqueous Mass	Nov-2006
		Aqueous Volumetric	Nov-2006
File		Nov-2006	
Gas Mass		Nov-2006	
Gas Volumetric		Nov-2006	
Solute		Nov-2006	

STOMP-WAE Tested Options (Released version 04-30-07)

Card_Name	Option_Name	Date_of_Completion
Aqueous relative permeability	Mualem	Mar-2007
Boundary conditions	Dirichlet (Gas)	Mar-2007
	Dirichlet (Energy)	Mar-2007
	Dirichlet (Aqueous)	Mar-2007
Gas relative permeability	Constant	Mar-2007
Grid card	Uniform Cartesian	Mar-2007
Hydraulic properties	hc	Mar-2007
Inactive nodes	No inactive nodes	Mar-2007
Initial conditions	Gas Pressure	Mar-2007
	Temperatue	Mar-2007
	Aqueous Dissolved Air Relative Saturation	Mar-2007
	Aqueous Pressure	Mar-2007
Mechanical properties	Minlington and Quirk tortuisity	Mar-2007
Output control	X aqueous vol[umetric flux]	Mar-2007
	Aqueous fracture saturation	
	Y aqueous vol[umetric flux]	Mar-2007
	ync aqueous vol[umetric flux (node centered)]	Mar-2007
	Z aqueous vol[umetric flux]	Mar-2007
	znc aqueous vol[umetric flux (node centered)]	Mar-2007
	xnc aqueous vol[umetric flux (node centered)]	Mar-2007
	Aqueous moisture cont[ent]	Mar-2007
	Aqueous saturation	Mar-2007
	Total water mass	Mar-2007
	Water gas mass frac[tion]	Mar-2007
	Water gas conc[entration]	Mar-2007

Card_Name	Option_Name	Date_of_Completion
Output control	Aqueous relative perm[eability]	Mar-2007
	Water aqueous mass frac[tion]	Mar-2007
	Water mass source rate	Mar-2007
	Water mass source int[egral]	Mar-2007
	Temperature	Mar-2007
	Rock/Soil type	Mar-2007
	Phase condition	Mar-2007
	Water gas mole frac[tion]	Mar-2007
	Aqueous saturation	Mar-2007
	Water aqueous conc[entration]	Mar-2007
	Aqueous pressure	Mar-2007
	Aqueous hydraulic head	Mar-2007
	Aqueous gauge pressure	Mar-2007
	Aaqueous density	Mar-2007
	Aqueous courant [number]	Mar-2007
	Integrated water mass*	Mar-2007
	Integrated gas Air [mass]*	Mar-2007
	Gas fracture saturation	
	Gas gauge pressure	Mar-2007
	Energy source int[egral]	Mar-2007
	Gas matrix saturation	
	Matric potential	Mar-2007
	Gas relative perm[eability]	Mar-2007
	Gas saturation	Mar-2007
	Gas density	Mar-2007
	Integrated aqueous Air [mass]*	Mar-2007
	Gas hydraulic head	Mar-2007
	Integrated gas water [mass] *	Mar-2007

Card_Name	Option_Name	Date_of_Completion	
Output control	Total Air mass	Mar-2007	
	X gas vol[umetric flux]	Mar-2007	
	xnc gas vol[umetric flux (node centered)]	Mar-2007	
	Y gas vol[umetric flux]	Mar-2007	
	ync gas vol[umetric flux (node centered)]	Mar-2007	
	Z gas vol[umetric flux]	Mar-2007	
	znc gas vol[umetric flux (node centered)]	Mar-2007	
	Integrated Air mass*	Mar-2007	
	Y heat flux	Mar-2007	
	Energy source rate	Mar-2007	
	X thermal cond[uctivity]	Mar-2007	
	Y thermal cond[uctivity]	Mar-2007	
	Z thermal cond[uctivity]	Mar-2007	
	Gas pressure	Mar-2007	
	xnc heat flux (node centered)	Mar-2007	
	Gas courant [number]	Mar-2007	
	ync heat flux (node centered)	Mar-2007	
	Z heat flux	Mar-2007	
	Air gas mole frac[tion]	Mar-2007	
	Air mass source rate	Mar-2007	
	znc heat flux (node centered)	Mar-2007	
	Air aqueous conc[entration]	Mar-2007	
	Air aqueous mass frac[tion]	Mar-2007	
	Air gas conc[entration]	Mar-2007	
	Air mass source int[egral]	Mar-2007	
	Air gas mass frac[tion]	Mar-2007	
	X heat flux	Mar-2007	
	Rock/Soil zonation	Explicit declaration	Mar-2007

Card_Name	Option_Name	Date_of_Completion
Saturation function	Van Genuchten (VG)	Mar-2007
Solution control	Normal	Mar-2007
Source card	No Gas Source	Mar-2007
	No Energy Source	Mar-2007
	No Aqueous Source	Mar-2007
Surface flux	Aqueous Volumetric	Mar-2007
	Gas Volumetric	Mar-2007
	Heat	Mar-2007
Thermal properties	Constant thermal conductivity function	Mar-2007
	Without ground-surface Albedo	Mar-2007
	With water-vapor enhanced diffusion	Mar-2007

STOMP-WAE-B Tested Options (Released version 04-30-07)

Card_Name	Option_Name	Date_of_Completion
Aqueous relative permeability	Mualem	Mar-2007
Atmospheric conditions	Read from external file	Mar-2007
Boundary conditions	Zero Flux (Gas)	Mar-2007
	Shuttleworth-Walace (Energy)	Mar-2007
	Dirichlet (Energy)	Mar-2007
	Dirichlet (Aqueous)	Mar-2007
Gas relative permeability	Corey	Mar-2007
Grid card	Cartesian	Mar-2007
Hydraulic properties	Explicit declaration	Mar-2007
Initial conditions	Temperatue Overwrite	Mar-2007
	Gas Pressure Overwrite	Mar-2007
	Aqueous Saturation	Mar-2007
Mechanical properties	Minlington and Quirk tortuosity	Mar-2007
	Explicit declaration	Mar-2007
Output control	Aqueous relative perm[eability]	Mar-2007
	Matric potential	Mar-2007
	Surface latent heat flux*	Mar-2007
	Surface sensible heat flux*	Mar-2007
	Surface ground heat flux*	Mar-2007
	Atmospheric temperature*	Mar-2007
	Surface temperature*	Mar-2007
	Temperature	Mar-2007
	Surface volumetric precipitation*	Mar-2007
	Potential evaporation rate	Mar-2007
	Actual evaporation rate*	Mar-2007
	potential transpiration rate*	Mar-2007

Card_Name	Option_Name	Date_of_Completion
Output control	Actual transpiration rate*	Mar-2007
	Surface net long-wave rad[iation] *	Mar-2007
	Atmospheric solar radiation*	Mar-2007
	Surface net-short wave rad[iation] *	Mar-2007
	Aqueous pressure	Mar-2007
	Aqueous moisture cont[ent]	Mar-2007
Plant card	Stress plant stress	Mar-2007
	Variable stomatal resistance	Mar-2007
	Constant stomatal resistance	Apr-2007
	Temporal plant Albedo	Mar-2007
Rock/Soil zonation	Explicit declaration	Mar-2007
Saturation function	Van Genuchten (VG)	Mar-2007
Solution control	Variable Aqueous Diffusion	Mar-2007
	Variable Gas Diffusion	Mar-2007
	Restart File	Mar-2007
Surface flux	Potential Evaporation	Mar-2007
	Actual Transpiration	Mar-2007
	Potential Transpiration	Mar-2007
	Aqueous Volumetric	Mar-2007
	Actual Evaporation	Mar-2007
Thermal properties	Constant Albedo	Apr-2007
	Without water-vapor enhanced diffusion	Apr-2007
	Wang Albedo	Mar-2007
	Cass thermal conductivity function	Mar-2007
	With ground-surface Albedo	Mar-2007
	With water-vapor enhanced diffusion	Mar-2007

STOMP-WO Tested Options (Released version 04-30-07)

Card_Name	Option_Name	Date_of_Completion
Aqueous relative permeability	Burdine	Dec-2006
	IJK indexing	Dec-2006
	JKI indexing	Dec-2006
	KIJ indexing	Dec-2006
	Mualem	Dec-2006
Boundary conditions	Aqueous Conc. (Solute)	
	Aqueous Conc. (Solute)	Dec-2006
	Dirichlet (Aqueous)	Dec-2006
	Hydraulic Gradient (Aqueous)	Dec-2006
	Inflow Aqueous (Solute)	
	Inflow Volumetric (Solute)	
	Initial Condition (Aqueous)	Dec-2006
	Initial Condition (Solute)	
	Neumann (Aqueous)	Dec-2006
	Outflow (Aqueous)	Dec-2006
	Outflow (Solute)	
	Unit Gradient (Aqueous)	Dec-2006
	Volumetric Conc. (Solute)	
	Zero Flux (Aqueous)	Dec-2006
Zero Flux (Solute)		
Grid card	Cartesian	Dec-2006
	Cylindrical	Dec-2006
	Reference Point Cartesian	Dec-2006
	Uniform Cartesian	Dec-2006
Hydraulic properties	Explicit declaration	Dec-2006
	hc	Dec-2006

Card_Name	Option_Name	Date_of_Completion
Hydraulic properties	IJK indexing	Dec-2006
	JKI indexing	Dec-2006
	KIJ indexing	Dec-2006
Inactive nodes	Explicit declaration	Dec-2006
	No inactive nodes	Dec-2006
Initial conditions	Aqueous Pressure	Dec-2006
	Saturation Overwrite	Dec-2006
	Solute Aqueous Volumetric Conc	Dec-2006
	Solute Aqueous Volumetric Conc Overwrite	
Mechanical properties	Solute Volumetric Conc	
	Explicit declaration	Dec-2006
	IJK indexing	Dec-2006
	JKI indexing	Dec-2006
	KIJ indexing	Dec-2006
NAPL relative permeability	IJK Indexing	Dec-2006
	JKI Indexing	Dec-2006
	KIJ Indexing	Dec-2006
	Mualem	Dec-2006
Oil properties	Constant (Liquid Density Function)	Dec-2006
	Constant (Liquid Viscosity Function)	Dec-2006
	Constant (Saturated Vapor Pressure Function)	Dec-2006
Output control	Aaqueous density	Dec-2006
	Apparent aqueous saturation	Jan-2007
	Aaqueous courant [number]	Dec-2006
	Aaqueous gauge pressure	Dec-2006
	Aaqueous hydraulic head	Dec-2006
	Aaqueous moisture cont[ent]	Dec-2006
	Aaqueous pressure	Dec-2006

Card_Name	Option_Name	Date_of_Completion
Output control	Aqueous relative perm[eability]	Dec-2006
	Aqueous saturation	Dec-2006
	Diffusive porosity	Dec-2006
	Effective trapped gas saturation	Dec-2006
	Effective trapped gas saturation	Jan-2007
	Gas-free NAPL interfacial area	Jan-2007
	Gas-water interfacial area	Jan-2007
	Integrated water mass*	Dec-2006
	Phase condition	Dec-2006
	Rock/Soil type	Dec-2006
	Solute aqueous conc[entration]	Dec-2006
	Solute aqueous mole frac[tion]	Dec-2006
	Solute source[integral]	Dec-2006
	Solute volumetric conc[entration]	Dec-2006
	Temperature	Dec-2006
	Total water mass	Dec-2006
	Total well flow rate*	Jan-2007
	Water aqueous conc[entration]	
	Water aqueous mass frac[tion]	
	Water gas conc[entration]	
	Water gas mass frac[tion]	
	Water gas mole frac[tion]	
	Water hydrate mole frac[tion]	
	Water mass source int[egral]	
	Water mass source rate	Dec-2006
	Well depth*	Dec-2006
	X aqueous vol[umetric flux]	Dec-2006
	X solute flux	Jan-2007

Card_Name	Option_Name	Date_of_Completion
Output control	xnc aqueous vol[umetric flux (node centered)]	Dec-2006
	Y aqueous vol[umetric flux]	Dec-2006
	Y solute flux	Dec-2006
	ync aqueous vol[umetric flux (node centered)]	Dec-2006
	Z aqueous vol[umetric flux]	Dec-2006
	Z solute flux	Dec-2006
	znc aqueous vol[umetric flux (node centered)]	Dec-2006
Rock/Soil zonation	Explicit declaration	Dec-2006
	Formatted File	Jan-2007
	IJK indexing	Dec-2006
	JKI indexing	Dec-2006
	KIJ indexing	Dec-2006
	Unformatted File	Dec-2006
Saturation function	Brooks and Corey (BC)	Dec-2006
	IJK indexing	Dec-2006
	JKI indexing	Dec-2006
	KIJ indexing	Dec-2006
	Van Genuchten (VG)	Dec-2006
Simulation title	Simulation title inputs	Dec-2006
Solute/Fluid interactions	Continuous Solute-Aqueous Partition	Dec-2006
	Radioactive Decay	
Solute/Porous media interactions	Explicit declaration	Dec-2006
	Longitudinal Dispersivity	Dec-2006
	Partition Coefficient	
	Transverse Dispersivity	
Solution control	Dissolved Oil diffusion Coeff	
	No NAPL Advection Transport	
	Normal	Dec-2006

Card_Name	Option_Name	Date_of_Completion
Solution control	Normal No Flow	
	Restart	
	Restart	Dec-2006
	Restart File	Dec-2006
	Superbee Transport	
	Transport	Dec-2006
	Transport Courant	
	TVD Transport	
	Variable Aqueous Diffusion	Dec-2006
	Source card	Aqueous Mass
Aqueous Volumetric		Dec-2006
No Aqueous Source		Dec-2006
No Solute Source		Dec-2006
Solute		
Solute Density		
Surface flux		Aqueous Mass
	Aqueous Volumetric	Dec-2006
	File	Dec-2006
	Solute	
	Solute	Dec-2006
Well card	No well	Dec-2006

STOMP-WOA Tested Options

(Released version 04-30-07)

Card_Name	Option_Name	Date_of_Completion
Aqueous relative permeability	Mualem	Jan-2007
Boundary conditions	Hydraulic Gradient (Gas)	Apr-2007
	Zero Flux (NAPL)	Apr-2007
	Zero Flux (Aqueous)	Apr-2007
	Hydraulic Gradient (Aqueous)	Apr-2007
	Dirichlet (Gas)	Jan-2007
	Zero Flux (Gas)	Apr-2007
	Dirichlet (NAPL)	Jan-2007
	Dirichlet (Aqueous)	Jan-2007
Dissolved-Oil transport	Linear Kd	Apr-2007
Gas relative permeability	Mualem	Jan-2007
Grid card	Uniform Cartesian	Jan-2007
Hydraulic properties	hc	Apr-2007
	Explicit declaration	Jan-2007
Inactive nodes	No inactive nodes	Jan-2007
Initial conditions	Aqueous Dissolved Air Mass Fraction	Jan-2007
	Aqueous Dissolved Oil Mass Fraction	Jan-2007
	Aqueous Pressure	Jan-2007
	NAPL Pressure	Jan-2007
	Gas Pressure	Jan-2007
Mechanical properties	Explicit declaration	Jan-2007
	Minlington and Quirk tortuosity	Apr-2007
NAPL relative permeability	Constant	Apr-2007
	Mualem	Jan-2007
Oil properties	Constant (Saturated Vapor Pressure Function)	Jan-2007
	Constant (Liquid Density Function)	Jan-2007

Card_Name	Option_Name	Date_of_Completion
Oil properties	Constant (Liquid Viscosity Function)	Jan-2007
Output control	Water aqueous mass frac[tion]	Jan-2007
	Water gas mass frac[tion]	Jan-2007
	Water gas conc[entration]	Jan-2007
	Water gas mole frac[tion]	Jan-2007
	Water aqueous conc[entration]	Jan-2007
	Total water mass	Jan-2007
	Integrated aqueous water [mass]*	Jan-2007
	Aqueous saturation	Jan-2007
	NAPL courant [number]	Jan-2007
	Aqueous trapped gas saturation	
	NAPL density	Jan-2007
	NAPL gauge pressure	Jan-2007
	NAPL hydraulic head	Jan-2007
	NAPL moisture cont[ent]	Jan-2007
	NAPL pressure	Jan-2007
	NAPL relative perm[ability]	Jan-2007
	NAPL saturation	Jan-2007
	Oil aqueous conc[entration]	Jan-2007
	Oil gas conc[entration]	Jan-2007
	Aqueous moisture cont[ent]	Jan-2007
	Effective trapped gas saturation	
	Oil aqueous mass frac[tion]	Jan-2007
	Rock/Soil type	Jan-2007
	Apparent aqueous saturation	Jan-2007
	Aqueous courant [number]	Jan-2007
	Aaqueous density	Jan-2007
Aqueous gauge pressure	Jan-2007	

Card_Name	Option_Name	Date_of_Completion
Output control	Aqueous hydraulic head	Jan-2007
	Aqueous pressure	Jan-2007
	Aqueous relative perm[eability]	Jan-2007
	Diffusive porosity	Jan-2007
	ync NAPL vol[umetric flux (node centered)]	
	Phase condition	Jan-2007
	Oil gas mass frac[tion]	Jan-2007
	Apparent total saturation	Jan-2007
	Temperature	Jan-2007
	Water mass source int[egral]	
	Water mass source rate	
	X aqueous vol[umetric flux]	
	xnc aqueous vol[umetric flux (node centered)]	
	Y aqueous vol[umetric flux]	
	ync aqueous vol[umetric flux (node centered)]	
	Z aqueous vol[umetric flux]	Jan-2007
	znc aqueous vol[umetric flux (node centered)]	Jan-2007
	Integrated water mass*	Jan-2007
	Integrated gas Air [mass]*	Jan-2007
	Air mass source rate	
	Oil gas mole frac[tion]	Jan-2007
	Gas density	Jan-2007
	xnc NAPL vol[umetric flux (node centered)]	
	Gas hydraulic head	Jan-2007
	Gas pressure	Jan-2007
	Gas relative perm[eability]	Jan-2007
	Gas saturation	Jan-2007
	Air mass source int[egral]	

Card_Name	Option_Name	Date_of_Completion
Output control	Integrated aqueous Air [mass]*	Jan-2007
	Gas courant [number]	Jan-2007
	Integrated gas Oil [mass]*	Jan-2007
	Total Air mass	Jan-2007
	Trapped gas saturation	
	X gas vol[umetric flux]	
	xnc gas vol[umetric flux (node centered)]	
	Y gas vol[umetric flux]	
	ync gas vol[umetric flux (node centered)]	
	Z gas vol[umetric flux]	Jan-2007
	znc gas vol[umetric flux (node centered)]	Jan-2007
	Integrated Air mass*	Jan-2007
	Y NAPL vol[umetric flux]	
	Oil mass source int[egral]	
	Oil mass source rate	
	Total moisture cont[ent]	Jan-2007
	Total Oil mass	Jan-2007
	Total saturation	Jan-2007
	Gas gauge pressure	
	X NAPL vol[umetric flux]	
	Air gas mole frac[tion]	Jan-2007
	Z NAPL vol[umetric flux]	Jan-2007
	znc NAPL vol[umetric flux (node centered)]	Jan-2007
	Air gas conc[entration]	Jan-2007
	Trapped NAPL saturation	
	Air gas mass frac[tion]	Jan-2007
	Effective trapped NAPL saturation	
	Air aqueous mass frac[tion]	Jan-2007

Card_Name	Option_Name	Date_of_Completion
Output control	Air aqueous conc[entration]	Jan-2007
	Residual NAPL saturation	
	Mobile NAPL saturation	
	Integrated Oil mass*	Jan-2007
	Integrated aqueous Oil [mass]*	Jan-2007
	Free NAPL saturation	
Rock/Soil zonation	Explicit declaration	Jan-2007
Saturation function	Van Genuchten (VG)	Jan-2007
Simulation title	Simulation title inputs	Jan-2007
Solution control	Normal	Jan-2007
Source card	No NAPL Source	Jan-2007
Surface flux	Gas Mass	Jan-2007
	NAPL Volumetric	Jan-2007
	Aqueous Volumetric	Jan-2007
Well card	No well	Jan-2007