

Parameters and locations in new folder hierarchy

Yellow: to be decided/changed

Red: to be deleted

Generic Parameters

	Nesi	Root	Data	Runs	Fault	realization	LF/HF /BB /IM_Calc	Note	Example
mgmt_db_location		✓						The same for all faults. Same as the path to Root - unsure if needed	/home/melody.zhu/Albury/
version		✓						Selected during install	gmsim_v18.5.3
stat_coords						✓			/home/melody.zhu/Albury /Albury_VM_home_melodypzh_u_Albury_Data_VMs_Albury-h0p4_EMODv3p0p4_181128/fd_rt01-h0.400.statcords
flo		✓						default	0.25
srf_dir			✓						/home/melody.zhu/Albury/Data/Sources/
srf_file						✓			/home/melody.zhu/Albury/Data/Sources/Albury/Srf /Albury_HYP15-21_S1384.srf
sim_dir						✓			/home/melody.zhu/Albury /Albury_VM_home_melodypzh_u_Albury_Data_VMs_Albury-h0p4_EMODv3p0p4_181128
bb_dir						✓		(Unneeded - sim_dir/ + 'BB')	/home/melody.zhu/Albury /Albury_VM_home_melodypzh_u_Albury_Data_VMs_Albury-h0p4_EMODv3p0p4_181128/BB
lf_sim_root_dir								(Unneeded - sim_dir/ + 'LF')	/home/melody.zhu/Albury /Albury_VM_home_melodypzh_u_Albury_Data_VMs_Albury-h0p4_EMODv3p0p4_181128/LF
hf_dir								(Unneeded - sim_dir/ + 'HF')	/home/melody.zhu/Albury /Albury_VM_home_melodypzh_u_Albury_Data_VMs_Albury-h0p4_EMODv3p0p4_181128/HF
vel_mod_dir					✓				/home/melody.zhu/Albury/Data/VMs/Albury
tools_dir	✓								/nesi/project/nesi00213/EMOD3D/tools
run_name						✓			Albury_VM_home_melodypzh_u_Albury_Data_VMs_Albury-h0p4_EMODv3p0p4_181128
FD_STATLIST						✓			/home/melody.zhu/Albury /Albury_VM_home_melodypzh_u_Albury_Data_VMs_Albury-h0p4_EMODv3p0p4_181128/fd_rt01-h0.400.ll
stat_file		✓							/nesi/project/nesi00213/StationInfo /non_uniform_whole_nz_with_real_stations-hh400_v18p6.ll
	Nesi	Root	Data	Runs	Fault	realization	LF/HF /BB /IM_Calc	Note	Example
global_root	✓								/nesi/project/nesi00213
user_root		✓						Potential Remove	/home/melody.zhu/Albury
run_dir	✓							Potential Remove	/nesi/nobackup/nesi00213/RunFolder/
stat_vs_est		✓							/nesi/project/nesi00213/StationInfo /non_uniform_whole_nz_with_real_stations-hh400_v18p6.vs30
stat_vs_ref		✓							/nesi/project/nesi00213/StationInfo /non_uniform_whole_nz_with_real_stations-hh400_v18p6.vs30ref
v_mod_1d_dir	✓								/nesi/project/nesi00213/VelocityModel/Mod-1D
dt		✓							

sim_duration							✓			
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EMOD3D Related Parameters

All defaults stored in e3d.par.template

non-default params to be garnered from other params.yaml files

	Nesi	Root	Data	Runs	Fault	realization	LF/HF /BB /IM_Calc	Note	Example
all_in_one								Default	1
bfilt								Default	4
bforce								Default	0
dampwidth								Default	0
dblcp1								Default	0
dmodfile								Default	rho3dfile.d
pmodfile								Default	vp3dfile.p
smodfile								Default	vs3dfile.s
dt									0.02
dtts								Default	20
dxts								Default	5
dyts								Default	5
dzts								Default	1
dump_itinc								Default	4000
dxout								Default	1
dyout								Default	1
dzout								Default	1
	Nesi	Root	Data	Runs	Fault	realization	LF/HF /BB /IM_Calc	Note	Example
elas_only								Default	0
enable_output_dump								Default	1
enable_restart								Default	1
faultfile						✓		(srf_file as above)	/home/melody.zhu/Albury/Data/Sources/Albury/Srf /Albury_HYP15-21_S1384.srf
ffault								Default	2
fhi								Default	0.0
flo								as above	0.25
fmax								Default	25
fmin								Default	0.01
freesurf								Default	1
geoproj								Default	1

qbndmax								Default	100.0
qpfrac								Default	100
qpqs_factor								Default	2.0
qsfrac								Default	50
read_restart								Default	0
report								Default	100
restart_itinc								Default	20000
restartdir								Autogenerated from sim_dir	/home/melody.zhu/Alburey/Alburey_VM_home_melodypzhru_Alburey_Data_VMs_Alburey-h0p4_EMODv3p0p4_181128/LF/Restart
restartname								run_name	Alburey_VM_home_melodypzhru_Alburey_Data_VMs_Alburey-h0p4_EMODv3p0p4_181128
	Nesi	Root	Data	Runs	Fault	realization	LF/HF/BB/IM_Calc	Note	Example
scale								Default	1
seiscords						✓		stat_cords	/home/melody.zhu/Alburey/Alburey_VM_home_melodypzhru_Alburey_Data_VMs_Alburey-h0p4_EMODv3p0p4_181128/fd_rt01-h0.400.statcords
seisdir					✓			Autogenerated from sim_dir	/home/melody.zhu/Alburey/scratch/Alburey_VM_home_melodypzhru_Alburey_Data_VMs_Alburey-h0p4_EMODv3p0p4_181128/Alburey_HYP15-21_S1384/SeismoBin
sim_dir					✓			Autogenerated from sim_dir	/home/melody.zhu/Alburey/Alburey_VM_home_melodypzhru_Alburey_Data_VMs_Alburey-h0p4_EMODv3p0p4_181128
slipout						✓		Autogenerated from sim_dir	/home/melody.zhu/Alburey/Alburey_VM_home_melodypzhru_Alburey_Data_VMs_Alburey-h0p4_EMODv3p0p4_181128/LF/SlipOut/slipout-k2
span								Default	1
stat_file	✓							stat_file	/nesi/project/nesi00213/StationInfo/non_uniform_whole_nz_with_real_stations-hh400_v18p6.ll
stype								Default	2tri-p10-h20
swap_bytes								Default	0
ts_file							✓	Autogenerated from sim_dir + run_name	/home/melody.zhu/Alburey/Alburey_VM_home_melodypzhru_Alburey_Data_VMs_Alburey-h0p4_EMODv3p0p4_181128/LF/OutBin/Alburey_VM_home_melodypzhru_Alburey_Data_VMs_Alburey-h0p4_EMODv3p0p4_181128_xyts.e3d
ts_inc								Default	1
ts_out_dir							✓	Autogenerated from sim_dir	/home/melody.zhu/Alburey/Alburey_VM_home_melodypzhru_Alburey_Data_VMs_Alburey-h0p4_EMODv3p0p4_181128/LF/TSlice/TSFiles
ts_out_prefix							✓	Autogenerated from sim_dir	/home/melody.zhu/Alburey/Alburey_VM_home_melodypzhru_Alburey_Data_VMs_Alburey-h0p4_EMODv3p0p4_181128/LF/TSlice/TSFiles/Alburey_VM_home_melodypzhru_Alburey_Data_VMs_Alburey-h0p4_EMODv3p0p4_181128
ts_start								Default	0
ts_total								Default	218
ts_xy								Default	1
ts_xz								Default	0
ts_yz								Default	0
tzero								Default	0.6

	Nesi	Root	Data	Runs	Fault	realization	LF/HF/BB/IM_Calc	Note	Example
user_scratch					✓			Autogenerated from sim_dir	/home/melody.zhu/Albury/scratch
vel_mod_params_dir			✓					(same as above)	/home/melody.zhu/Albury/Data/VMs/Albury
version								Default	3.0.4-mpi
vmoddir			✓					(same as params dir?)	/home/melody.zhu/Albury/Data/VMs/Albury
vmodel_swapb								Default	0
wcc_prog_dir	✓							(same as tools_dir)	/nesi/project/nesi00213/EMOD3D/tools
xseis								Default	0
yseis								Default	0
zseis								Default	0

VM Related Parameters

(params_vm.yaml stored in Data/VMs)

	Nesi	Root	Data	Runs	Fault	realization	LF/HF/BB/IM_Calc	Note	Example
MODEL_LAT									-44.1301395408
MODEL_LON									170.711376933
MODEL_COORDS									model_coords_rt01-h0.400
MODEL_BOUNDS									model_bounds_rt01-h0.400
MODEL_ROT									43
MODEL_PARAMS									model_params_rt01-h0.400
GRIDFILE									gridfile_rt01-h0.400
GRIDOUT									gridout_rt01-h0.400
nz									0.5
nx									517
ny									501
hh									0.4
vel_mod_params_dir								vel_mod_dir	/home/melody.zhu/Albury/Data/VMs/Albury
sufx									_rt01-h0.400

LF Related Parameters

	Nesi	Root	Data	Runs	Fault	realization	LF/HF/BB/IM_Calc	Note	Example
ts_out_dir							✓		/home/melody.zhu/Albury/Albury_VM_home_melodypzh_Albury_Data_VMs_Albury-h0p4_EMODv3p0p4_181128/LF/TSlice/TSFiles
t_slice_dir							✓		/home/melody.zhu/Albury/Albury_VM_home_melodypzh_Albury_Data_VMs_Albury-h0p4_EMODv3p0p4_181128/LF/TSlice lf_vel_resume: true

ts_out_prefix								✓		/home/melody.zhu/Albury /Albury_VM_home_melodypzh_u_Albury_Data_VMs_Albury-h0p4_EMODv3p0p4_181128/LF/TSlice/TSFiles /Albury_VM_home_melodypzh_u_Albury_Data_VMs_Albury-h0p4_EMODv3p0p4_181128
lf_sim_dir								✓		/home/melody.zhu/Albury /Albury_VM_home_melodypzh_u_Albury_Data_VMs_Albury-h0p4_EMODv3p0p4_181128/LF
lf_vel_resume								✓		true
SEISDIR								✓		/home/melody.zhu/Albury /Albury_VM_home_melodypzh_u_Albury_Data_VMs_Albury-h0p4_EMODv3p0p4_181128/LF/OutBin
FILELIST								✓		/home/melody.zhu/Albury /Albury_VM_home_melodypzh_u_Albury_Data_VMs_Albury-h0p4_EMODv3p0p4_181128/LF/fdb.filelist
slipout_dir								✓		/home/melody.zhu/Albury /Albury_VM_home_melodypzh_u_Albury_Data_VMs_Albury-h0p4_EMODv3p0p4_181128/LF/SlipOut
log_dir								✓		/home/melody.zhu/Albury /Albury_VM_home_melodypzh_u_Albury_Data_VMs_Albury-h0p4_EMODv3p0p4_181128/LF/Rlog
vel_dir								✓		/home/melody.zhu/Albury /Albury_VM_home_melodypzh_u_Albury_Data_VMs_Albury-h0p4_EMODv3p0p4_181128/LF/Vel
ts_file								✓		/home/melody.zhu/Albury /Albury_VM_home_melodypzh_u_Albury_Data_VMs_Albury-h0p4_EMODv3p0p4_181128/LF/OutBin /Albury_VM_home_melodypzh_u_Albury_Data_VMs_Albury-h0p4_EMODv3p0p4_181128_xyts.e3d
plot_ps_dir								✓		/home/melody.zhu/Albury /Albury_VM_home_melodypzh_u_Albury_Data_VMs_Albury-h0p4_EMODv3p0p4_181128/LF/TSlice/PlotFiles
plot_png_dir								✓		/home/melody.zhu/Albury /Albury_VM_home_melodypzh_u_Albury_Data_VMs_Albury-h0p4_EMODv3p0p4_181128/LF/TSlice/Png
restart_dir								✓		/home/melody.zhu/Albury /Albury_VM_home_melodypzh_u_Albury_Data_VMs_Albury-h0p4_EMODv3p0p4_181128/LF/Restart
bin_output								✓		/home/melody.zhu/Albury /Albury_VM_home_melodypzh_u_Albury_Data_VMs_Albury-h0p4_EMODv3p0p4_181128/LF/OutBin

HF Related Parameters

	Nesi	Root	Data	Runs	Fault	realization	LF/HF/BB /IM_Calc	Note	Example
hf_rvfac		✓						default	0.8
hf_sdrop		✓						default	50
hf_prefix									hf
hf_sim_bin	✓								/nesi/project/nesi00213/EMOD3D/tools/hb_high_v5.4.5_np2mm+
hf_path_dur		✓						default	1
hf_dt		✓						default	0.005
hf_slip							✓ (HF)		/home/melody.zhu/Albury/Data/Sources/Albury/Stoch /Albury_HYP15-21_S1384.stoch
hf_kappa		✓						default	0.045

BB Related Parameters

	Nesi	Root	Data	Runs	Fault	realization	LF/HF /BB /IM_Calc	Note	Example
v_mod_1d_name								Change to full path of 1-d model	Cant1D_v2-midQ_jeer

